Prepared for:

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2015 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

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March 18, 2016

2015 Annual Report
CERCLA Non-time Critical Removal Action
Midway Atoll National Wildlife Refuge
Midway Island
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1.0 INTRODUCTION

NW Demolition and Environmental (NWDE) has prepared this 2015 Annual Report for 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) (Figure 1). 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 September 8, and November 4, 2015. The work was conducted in general accordance with the CERCLA Guidelines, NWDE's Removal Action Work Plan (RAWP) dated February 29, 2012, Geosyntec Consultants Inc. (Geosyntec) Soil Sampling Work Plan dated August 2013 and the revised Health and Safety Plan (HASP) (NWDE, 2012).

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 shows the location of each DU on Sand Island. 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 off-site disposal; 3) excavation and on-site treatment and consolidation of lead-contaminated soil; and 4) demolition of numerous buildings and above-ground oil storage tanks (AST).

The Removal Action is being conducted over multiple years during months when the majority of the birds are not present on the Site; 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 (Complete).
- 2012 – Design and retrofitting of R-2 (the former fresh water treatment unit in which treated soil will be encapsulated) and removal actions for DU1 and DU6. (Complete).
- 2013 – Removal action for DU2, including lead abatement of Buildings 259, 2403 and 2404 in DU4 (Complete).

- 2014 – Removal action for DU4 and DU7 and placement of shade cloth in DU5 and DU3 (Complete).
- 2015 – Removal action for DU3, DU5 and portions of DU8.
- 2016 – Completion of DU8 soil removal, limited additional removal in DU5, DU7, and R-2 unit work and initiation of DU9 work*.
- 2017 – Complete remainder of removal action for DU9*.

*The proposed schedule may be adjusted depending on the availability of funding.

3.0 2015 FIELD ACTIVITIES

The following sections detail the 2015 removal activities. Copies of the daily field logs for the 2015 field season are provided in Appendix A. Due to its volume, Appendix A has been provided in a separate binder. Appendix B contains printed copies of a limited number of site photographs and a DVD that contains electronic versions of all project related photographs taken during the 2015 field season.

3.1 Lead Based Paint Abatement

During the 2015 field activities, Iniki Enterprises Limited (Iniki) abated LBP from the exterior of structures in DU3 and DU5. The DU3 structure consisted of only Building #4203 (Bravo Barracks) as the remainder of buildings in this DU had already been abated in 2009. DU5 structures consisted of Buildings #5309 (Transmitter), #5339 (Water Treatment), #5341 (Chlorinator Building), and MAECTITE® application to the exterior walls of #5303 (R2 Unit) and the north and south end walls of the Naval Air Facility (NAF) Hangar.

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 surface of the buildings. Following a reaction period, loose flaking paint chips were removed from all surfaces including doors, windows, and trim pieces using hand tools such as scrapers. Where surfaces were inaccessible or could not be safely reached, paint chips were removed using a power washer. Abated surfaces were rinsed clean using a power washer and 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. Cracks in concrete were sealed with an acrylic latex caulk. Primed surfaces were then painted with one coat of the top coat paint.

During abatement, Iniki used personal air monitors to monitor lead in air to verify that dust control measures were successful and the work was performed in a manner consistent with regulatory requirements. Air samples were analyzed for total lead by EPA Method 7082m. All sample results were below the method reporting limit (<3.3 micrograms per cubic meter [$\mu g/m^3$]). A copy of Iniki's reports for lead monitoring is included in Appendix C.

Paint chips were swept and vacuumed up immediately following abatement and secured along with soiled polyethylene sheeting drop cloths, personal protective equipment (PPE) and other LBP waste. Abatement waste was stored and secured in a shipping container for future transportation and off-site disposal.

3.2 Soil Treatment and Removal

Soil was treated and excavated from DU3, DU5 and DU8 during the 2015 field season. Prior to excavation, liquid MAECTITE® was applied to soil in 10' x10'-foot square grids. Based on the 2012 treatment study completed by Geosyntec and Sevenson Environmental Inc. (Sevenson), the minimum prescribed application rate was 0.75 gallons of MAECTITE® per cubic yard (gal/cy) of soil. After the MAECTITE® had soaked into the target area, the soil was mixed to homogeneity to the prescribed excavation depths. Following an approximate three-hour reaction time period, the soil was loaded into a six-wheel articulating off-road truck and transported to the R-2 unit. Water was used to prevent fugitive dust during the excavation.

Table 1 provides a summary of soil excavation volumes and MAECTITE® usage during the 2015 field season. Figures 2 through 5 show the location of soil excavations for DU3, DU5 and DU8.

3.2.1 Work Scope Modifications

During the 2015 field season, changes in field conditions necessitated changes to the initial field scope of work described in the RAWP. In summary:

- A small area east of Building 4210 in DU3 was not excavated during the 2015 season due to a lack of access. This area (~17 cy) will be excavated during the 2016 or 2017 field season.
- MAECTITIE® treatment was not completed around the R2 unit due to demolition plans for 2016 or 2017.
- The EE/CA had assumed that up to 800 cy would be removed from DU8 (former ASTs). However, it was determined that the volume provided in the EE/CA was incorrectly calculated. As such, only limited soil removal (see Section 3.1.2) was completed during the 2015 field season. Soil removal was completed in the areas disturbed during the dismantling of the ASTs. Complete removal was not completed due to a shortage of MAECTITE® solution and concerns about how to best utilize the remaining capacity of the R2 unit. Additional soil samples were also collected to characterize the soils in DU8 (see Section 4.0).

3.3 Confirmation Soil Sampling

Following completion of any single excavation (i.e. that associated with a single building), confirmation samples were collected to document the presence or absence any remaining lead in soil. Confirmation samples were obtained using either multiple increment sampling (MIS) methodology or composite soil sampling. For larger areas, MIS procedures were used. In areas with small removal footprints, 5-point composite samples were collected. Procedures for the MIS procedures were provided in the Field Sampling Plan (FSP), which was included as Appendix B of the RAWP (Geosyntec, 2012).

Confirmation sample areas were determined in the field based on excavation limits and building layouts. MIS sampling areas were divided into 32 approximately equally sized sub-divisions. Random points were then picked in each of the sub-divisions for collection of an increment sample. Two additional random points were also then selected in each of the sub-divisions for collection of a duplicate and triplicate increment sample. This process was repeated until all 32 sub-divisions had the increment samples collected.

Table 2 provides a summary of the confirmation sampling results and Figures 6 through 9 show the location of each MIS and composite sampling area. Appendix D contains a copy of TestAmerica's laboratory report.

3.3.1 Confirmation Soil Sampling Results

Decision Unit 3

Six MIS samples and six composite confirmation soil samples were collected within the excavation limits of DU3 (Figure 6). Lead was detected in each sample (including duplicates and triplicates) at concentrations ranging from 1.1 to 82 mg/kg. All results were below the 75 mg/kg cleanup level, except for the primary sample from the Building 419 excavation. Sample 419 MIS 0-2" contained lead at 82 mg/kg. The Interstate Technology & regulatory Council (ITRC) guidance for Incremental Sampling (ITRC, 2012) presents a statistical method to evaluate results when one of the primary, duplicate or triplicate sample collected in an MIS event exceeds a regulatory driver. The guidance allows for the generation of a 95% upper confidence limit (UCL) for the mean of the sample results. Using the ITRC ISM Calculator, the 95% UCL for the Building 419 MIS sample is 105 mg/kg. Based on the 95% UCL calculation, it is assumed that the soil represented by sample 419 MIS 0-2" contains residual lead above the cleanup level of 75 mg/kg and will require additional removal or evaluation during the 2016 field year.

The calculation of a 95% UCL on a small data set (three samples in this instance) with a wide range of detections has a high level of uncertainty. In addition, in cases where the data is log normal, the uncertainty increases. As such, this is why the 95% UCL, a measurement of probability is greater than the highest detected concentration.

Decision Unit 5

Four MIS samples were collected within the excavation limits of DU5 (Figures 7 and 8). Lead was detected in each sample (including duplicates and triplicates) at concentrations ranging from 6.1 to 52 mg/kg; all below the 75 mg/kg cleanup level.

Decision Unit 8

Two MIS samples were collected from the excavation limits of DU8 (Figure 9); one in the vicinity of each former AST. Lead was detected in each sample (including duplicates and triplicates) at concentrations ranging from 55 to 190 mg/kg. Similar to the DU-3 discussion, a 95% UCL was calculated for each sample. The calculated UCL was significantly higher than the cleanup level of 75 mg/kg. It is anticipated that additional treatment and removal will be completed in DU8 in subsequent field seasons.

3.4 Backfilling

Excavated areas were backfilled with clean sand from the borrow area between the fuel pier and cargo pier. The clean sand was excavated with a Volvo 290 or Caterpillar 308 excavator and hauled in an off-road truck to each excavation area. The sand was dumped and spread to match the existing grade.

3.5 Above-ground Storage Tank Demolition

Five ASTs and associated piping were demolished and removed from DU8. ASTs removed included:

- S28 and S30 – Both S28 and S30 were approximately 100-feet in diameter and stored up to 2.1-million gallons of fuel.
- 404 – 17,000-gallon AST
- 406– 26,500-gallon AST
- 407– 24,000-gallon AST

Tanks and piping were demolished using the Volvo 290 excavator equipped with a LaBounty UP40 hydraulic shear. Material was downsized and loaded into an off-road truck, then hauled to the boneyard for storage. Blind flanges and gaskets were installed as required for securing remaining pipe ends.

4.0 ADDITIONAL SOIL CHARACTERIZATION – DU8

At FWS request, 24 soil samples (including duplicates) from DU8 were collected to provide additional analytical data for soil such that contaminant distribution and related removal actions could be further defined.

4.1 Sample Locations and Selection Process

2015 sampling locations for DU8 are shown on Figure 10. Sampling locations were chosen in the field based on field observations and coverage needs.

4.2 Soil Sampling Procedures

Appendix E presents a discussion of the field procedures used to collect soil samples. Soil samples were collected from the upper 6-inches of the soil profile in DU8. In addition, one duplicate sample was collected and analyzed for every 20 primary samples. Soil sampling in the 0 to 6-inch interval was completed using composite sampling techniques, whereby a five-point composite sample was collected from an approximately 5 to 6-foot radius around each sampling location. The use of the composite sample was intended to provide a more thorough characterization in the most exposed soil profile.

All soil samples were submitted for laboratory analysis of total lead by EPA Method 6010. Table 3 summarizes the lead in soil results for the 2015 sampling event for DU8. Laboratory analytical deliverables are presented in Appendix D. Appendix D also contains a quality assurance/quality control (QA/QC) evaluation of the analytical data and a data review checklist for each of the laboratory analytical packets. Based on the data quality review, the results are valid and usable.

4.3 DU-8 Sample Results

In total, 24 soil samples (including duplicates) were collected from DU8. Three soil samples contained lead concentrations above the cleanup goal of 75 mg/kg. The remaining samples had total lead concentrations below 75 mg/kg. As noted in Section 3.1.3.1, the confirmation MIS soil samples collected from the 2015 excavated areas for DU8 contained lead concentrations above 75 mg/kg. Figure 10 shows the location and results of the additional sampling activities. It is assumed that additional soil removal activities will be completed in DU-8 during the 2016 or 2017 field season.

5.0 SOIL CHARACTERIZATION FOR DU9

DU9 includes the remaining structures such as storage buildings, pump houses, lift stations and other ancillary structures that are not included in other Decision Units. Dating back to 2008, numerous soil samples, from a variety of depths, have been collected and analyzed in an effort to characterize the concentrations of lead in soil

surrounding these structures. In most sampling locations, soil was collected from 0 to 6-inches, 12 to 18-inches and in some locations, 24 to 30-inches bgs. All DU9 samples collected from 2012 through 2015 were collected in accordance with the sampling procedures documented in Appendix E. It is our understanding that most, if not all, of the other DU9 samples (2008 through 2012) were collected in a similar manner.

NWDE has consolidated the DU9 sampling into a single database ((Appendix F). This table contains the analytical results for all known DU9 samples. Figures F through F-19 show the location of each soil sample in relation to DU9 structures.

To date, not all of the structures with DU9 has not been sampled and FWS will use the data presented herein to determine if additional sampling is required.

During the 2015 field events, 51 soil samples (including duplicates) were collected from the water treatment plant area (part of DU9). Sixteen of the soil samples contained lead above the cleanup level of 75 mg/kg. Figure F-2 shows the location and results of the additional sampling activities in the water treatment area.

6.0 R-2 UNIT

The R-2 unit is being used for the permanent internment of the stabilized waste materials. The current design includes the filling of the R-2 with waste material to the top of the concrete blocks and the capping of the excavated material with clean soil. In addition, the exterior of the R-2 wall will be buttressed with clean soil.

Based on field measurements taken at the end of the 2015 field season and volume calculations, the R-2 Unit has approximately 10,500 cy of capacity remaining. This capacity assumed the future placement of the buttress material and the final mounding (2% rise from edge of exterior walls to center of R-2 Unit) of the fill material (Geosyntec, 2015).

6.1 Stockpiling of Buttress Material

During the 2015 field event, approximately 149 truckloads (2,235 cy) of clean sand was excavated from the borrow area near the fuel pier and transported to the R-2 area where it was stockpiled for future use as the buttress material.

6.2 Treatment Confirmation Sampling

Following placement of treated soil in the R-2 consolidation unit, two treatment confirmation samples (R2 Cell 1 and R2 Cell 2) were collected on November 2, 2015 and analyzed using Multiple Extraction Procedure (MEP) by EPA Method 1320. The MEP testing was conducted on treated soils and subjects the same soil sample to successive leaches of acidic solution at a ratio of 20 to 1. The soil-liquid mix is agitated for 24 hours after which the liquid is extracted and analyzed. The soil, without drying, is

then weighed and new 20:1 mixture of leachate added for a 24 hour period. This procedure is repeated nine times. The procedure is designed to evaluate the long term effect of infiltration of acid-rain water through a landfill soil matrix.

The analytical results are included in Table 4. The sample did not contain lead concentrations above the method detection limit of 11 micrograms per liter (μg/L). The MEP method is designed to understand leachability from solid waste caused by infiltration of acid rain and is intended to simulate 1,000 years of soil exposure to a leaching medium. The method, by subjecting the same solid matrix to successive leaches, effectively subjects the sample to increasing acidity. Therefore, the procedure provides a long-term estimate of metal mobility to groundwater from buried waste.

These results are consistent with MAECTITE® performance expectations, and are well below the TCLP limit (5 mg/L) for lead.

7.0 REFERENCES

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TABLES

TABLE 1
DAILY SUMMARY
MIDWAY ATOLL NWR

Date	Maectite Totals (gal)						Treated Soil Totals[1]		
	Applied to Soils (DU3)	Applied to Walls (DU3)	Applied to Soils (DU5)	Applied to Walls (DU5)	Applied to Soils (DU8)	Cumulative Total	Treated Soil (Loads)[2]	Excavated / Hauled to R-2 Unit (LCY)	Excavated / Hauled to R-2 Unit Cumulative Total (LCY)
9/15/2015	0	0	0	0	0	0	0	0	0
9/16/2015	32	20	0	0	0	52	3	43	43
9/17/2015	76	20	0	0	0	147	6	104	147
9/18/2015	114	0	0	10	0	271	8	156	303
9/19/2015	63	0	0	0	0	334	6	86	389
9/20/2015						334			389
9/21/2015	130	0	0	0	0	464	10	177	566
9/22/2015	72	0	0	0	0	536	8	99	665
9/23/2015	68	0	0	0	0	604	6	93	758
9/24/2015	29	0	0	0	0	633	3	40	798
9/25/2015	60	0	0	0	0	692	6	82	880
9/26/2015	55	0	0	0	0	747	6	76	955
9/27/2015						747			955
9/28/2015	122		0	0	0	869	10	167	1,122
9/29/2015	131	0	0	0	0	1,000	11	179	1,301
9/30/2015	142	0	0	0	0	1,141	10	194	1,495
10/1/2015	102	0	0	0	0	1,243	11	140	1,635
10/2/2015	152	0	0	0	0	1,395	12	209	1,844
10/3/2015	0	0	0	0	0	1,395	1	0	1,844
10/4/2015	0	0	0	0	0	1,395	0	0	1,844
10/5/2015	0	0	0	0	0	1,395	0	0	1,844
10/6/2015	0	0	0	0	0	1,395	0	0	1,844
10/7/2015	33	0	42	0	0	1,470	3	103	1,947
10/8/2015	0	0	185	0	0	1,655	22	253	2,200
10/9/2015	0	0	156	0	0	1,810	16	213	2,413
10/10/2015	0	0	141	0	0	1,951	17	193	2,606
10/11/2015						1,951			2,606
10/12/2015		0	0	0	0	1,951	0	0	2,606
10/13/2015	0	0	0	0	0	1,951	0	0	2,606
10/14/2015	0	0	0	0	0	1,951	0	0	2,606
10/15/2015	0	0	0	0	0	1,951	0	0	2,606
10/16/2015	0	0	135	0	0	2,086	8	122	2,728
10/17/2015	0	0	0	0	0	2,086	0	0	2,728
10/18/2015	0	0	0	0	0	2,086	0	0	2,728
10/19/2015	0	0	0	0	0	2,086	0	0	2,728
10/20/2015	0	0	0	0	0	2,086	0	0	2,728
10/21/2015	0	0	0	0	0	2,086	0	0	2,728
10/22/2015	0	0	0	0	0	2,086	0	0	2,728
10/23/2015	0	0	0	0	199	2,285	0	273	3,001
10/24/2015	0	0	0	0	14	2,298	23	19	3,019
10/25/2015						2,298			3,019
10/26/2015	0	0	0	0	108	2,406	9	148	3,167
10/27/2015	0	0	0	0	58	2,463	6	79	3,246
10/28/2015	0	0	0	0	46	2,509	6	63	3,309
10/29/2015	0	0	0	0	101	2,610	16	138	3,447
10/30/2015	0	0	0	0	10	2,620	0	0	3,447
10/31/2015	0	0	0	0	0	2,620	0	0	3,447
11/1/2015						2,620			3,447
11/2/2015	0	0	0	0	0	2,620	0	0	3,447
Totals	1,378	40	658	10	534	2,620	243	3,447	3,447

Notes
1. Estimates are based on MAECTITE volume usage with an application rate rate of 0.75 gallons per cubic yard.
2. Treated soil and concrete loads were hauled to and deposited in the R-2 Unit.
LCY - loose cubic yard
gal - gallon

TABLE 2
DU3, DU5 AND DU8 CONFIRMATION SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (mg/kg)		Relative Percent Difference
Building 414 (DU-3)				
414 MIS 0-2"	10/2/2015	15	B	82%
414 MIS 0-2 DUP		36		
414 MIS 0-2 Triplicate		19	B	24%
Building 415 (DU-3)				
415 MIS 0-2"	9/28/2015	11	B	128%
415 MIS 0-2 DUP		50	B	
415 MIS 0-2 TRIPLICATE		18	B	48%
Building 419 (DU-3)				
419 MIS 0-2"	9/26/2015	82	B	164%
419 MIS 0-2 DUP		8.1	B	
419 MIS 0-2" Triplicate		4.7	B	178%
Building 421 (DU-3)				
421 MIS 0-2"	9/28/2015	8.6	B	41%
421 MIS 0-2 DUP		5.7	B	
421 MIS 0-2 Triplicate		6.9	B	22%
Building 422 (DU-3)				
422P100 0-2"	9/26/2015	50	B	60%
422P100 0-2 DUP		27	B	
Building 423 (DU-3)				
423P100 0-2"	9/26/2015	4	B	2%
423P100 0-2 DUP		4.1	B	
Building 424 (DU-3)				
424P100 0-2"	9/26/2015	1.1	J B	0%
424P100 0-2 DUP		1.1	J B	
424P101 0-2"	9/26/2015	14	B	13%
424P101 0-2 DUP		16	B	
Building 4203 (DU-3)				
4203 MIS 0-2"	10/5/2015	1.3	B	60%
4203 MIS 0-2 DUP		0.7	J B	
4203 MIS 0-2 Triplicate		0.99	J B	27%
Building 4204 (DU-3)				
4204 MIS 0-2"	10/3/2015	3.3	B	0%
4204 MIS 0-2 DUP		3.3	B	
4204 MIS 0-2 Triplicate		6.2	B	61%
Building 4208 (DU-3)				
4208P100 0-2"	10/2/2015	4.2	B	15%
4208P100 0-2 DUP		3.6	B	
4208P101 0-2"	10/2/2015	33	B	10%
4208P101 0-2 DUP		30	B	

TABLE 2
DU3, DU5 AND DU8 CONFIRMATION SAMPLING ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (mg/kg)		Relative Percent Difference
Building 5309 (DU-5)				
5309 MIS A 0-2"	10/9/2015	13	B	14%
5309 MIS A 0-2 DUP		15	B	
5309 MIS A 0-2 Triplicate		19	B	38%
5309 MIS B 0-2"	10/12/2015	9.8	B	39%
5309 MIS B 0-2 DUP		6.6		
5309 MIS B 0-2 Triplicate		16		48%
R-2 (DU-5)				
R2 MIS A NE 0-2"	10/16/2015	7		11%
R2 MIS A NE 0-2 DUP		6.3		
R2 MIS A NE 0-2 Triplicate		6.1		14%
R2 MIS B NE 0-2"	10/16/2015	44		2%
R2 MIS B NE 0-2 DUP		45		
R2 MIS B NE 0-2 Triplicate		52		17%
S-28 (DU-8)				
S28 MIS 0-2"	10/29/2015	190	B	89%
S28 MIS 0-2 DUP		73	B	
S28 MIS 0-2 Triplicate		55	B	110%
S-30 (DU-8)				
S30 MIS 0-2"	10/30/2015	110		46%
S30 MIS 0-2 DUP		69		
S30 MIS 0-2 Triplicate		82		29%

Notes

1. Lead was analyzed by Environmental Protection Agency Method 6010B following multi-incremental sample preparation.

B = Lead was detected in the blank and the sample.

J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

TABLE 3
2015 ADDITIONAL SOIL SAMPLING RESULTS - DU8
MIDWAY ATOLL NWR

Sample Identification	Sample Date	Lead Concentration (mg/kg)	
S-28 (DU8)			
S28 -P1 0-6"	10/29/2015	54	B
S28 -P2 0-6"	10/29/2015	480	B
S28 -P3 0-6"	10/29/2015	61	B
S28 -P4 0-6"	10/29/2015	21	B
S28 -P5 0-6"	10/29/2015	59	B
S28 -P6 0-6"	10/29/2015	38	B
S28 -P7 0-6"	10/29/2015	24	B
S28 -P8 0-6"	10/29/2015	30	B
S28 -P9 0-6"	10/29/2015	65	B
S28-P10 0-6"	10/29/2015	25	B
S28-P11 0-6"	10/29/2015	19	B
S28 Gravel Pad	10/29/2015	41	B
S-30 (DU8)			
S30 -P1 0-6"	10/30/2015	24	B
S30 -P2 0-6 DUP		1.1	J B
S30 -P2 0-6"	10/30/2015	<1.1	
S30 -P3 0-6"	10/30/2015	3.9	B
S30 -P4 0-6"	10/30/2015	6.3	B
S30 -P5 0-6"	10/30/2015	79	B
S30 -P6 0-6"	10/30/2015	24	
S30 -P7 0-6"	10/30/2015	57	
S30 -P8 0-6"	10/30/2015	4.3	
S30 -P9 0-6"	10/30/2015	9.3	
S30-P10 0-6"	10/30/2015	100	
S30 Gravel Pad	10/30/2015	2.8	B

TABLE 3
2015 ADDITIONAL SOIL SAMPLING RESULTS - DU8
MIDWAY ATOLL NWR

Sample Identification	Sample Date	Lead Concentration (mg/kg)
QA/QC Results		
Trip Blank*	11/5/2015	<0.030 *

Notes

1. Lead was analyzed by Environmental Protection Agency Method 6010B.
2. Results based on wet weight.
3. Shading indicates concentration exceeds the cleanup value of 75 mg/kg.
4. "*" = Samples are reported in miligrams per liter (mg/l)

mg/kg - milligram per kilogram

TABLE 4
MULTI-EXTRACTION PROCEDURE ANALYTICAL RESULTS
MIDWAY ATOLL NWR

Sample Identification	Date	Lead Concentration (µg/l)
R2 Cell 1	11/2/2015	<11
		<11
		<11
		<11
		<11
		<11
		<11
		<11
		<11
R2 Cell 2	11/2/2015	<11
		<11
		<11
		<11
		<11
		<11
		<11
		<11
		<11

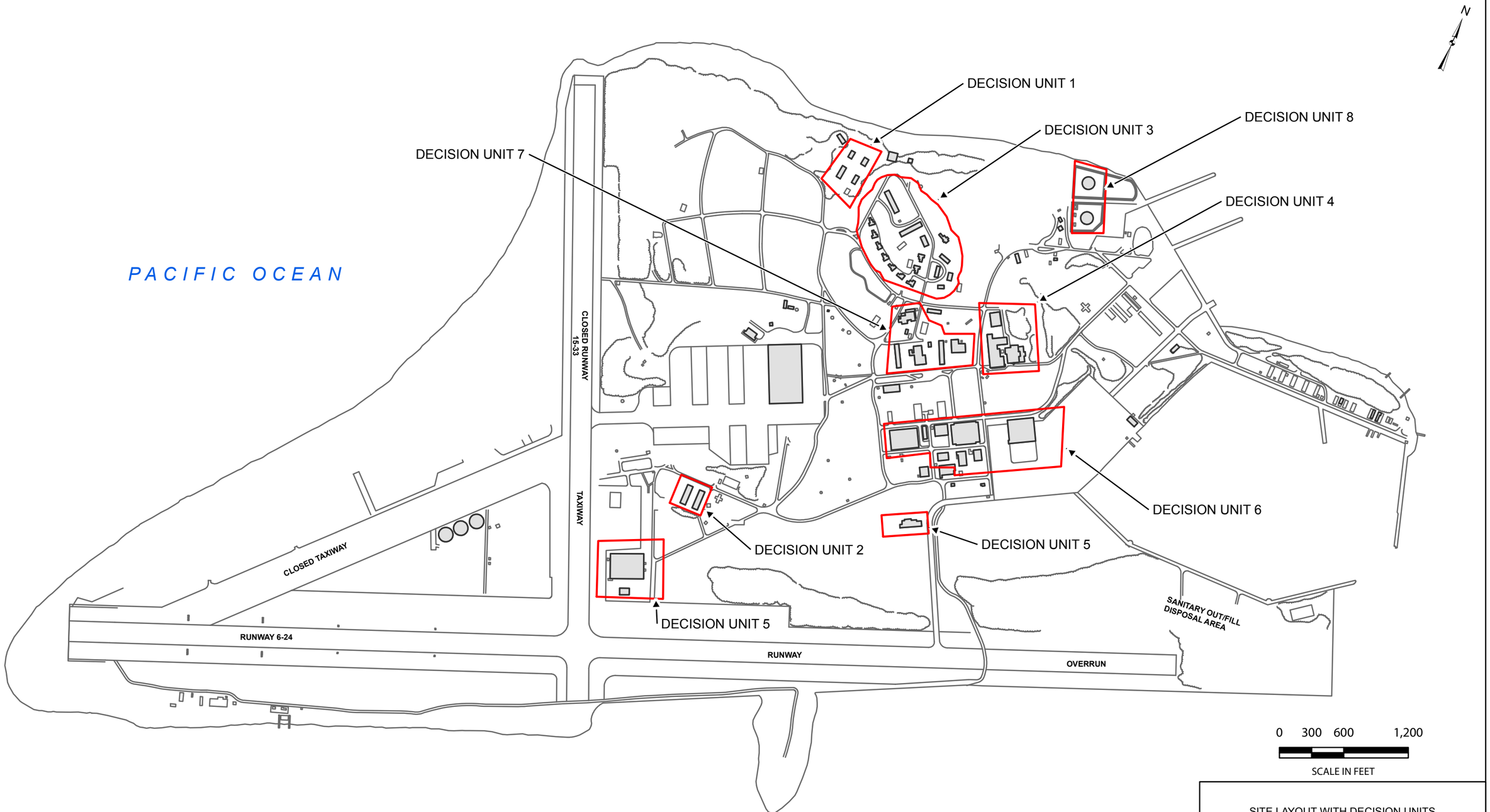
Notes

1. Lead was analyzed by Environmental Protection Agency Method 6010C-Leachability

2. The Toxicity Characteristic Leaching Procedure (TCLP) threshhold for lead is 5 milligrams per liter (mg/l)

µg/l - micrograms per liter

FIGURES



LEGEND

Decision Units Structures

Notes:
1. The location of all features shown are approximate.
2. This drawing is for information purposes.
3. Decision Unit 9 covers all remaining structures.

SITE LAYOUT WITH DECISION UNITS
REMOVAL OF LEAD BASED PAINT FROM STRUCTURES AND LEAD CONTAMINATED SOIL AT MIDWAY ATOLL

NW DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

JANUARY 2015

Figure: 1

Path: P:\GIS\Projects\Midway\Maps\2014_Joint format_Fig1.mxd

Building 4203
Building 4204
Building 4208
Building 414
Building 400
Building 4209
Building 4212
Building 424
Building 4210
Building 423
Building 415
Building 422
Building 421
Building 419
Building 4211
Building 416
Building 418
Building 417

0 120 240
SCALE IN FEET

LEGEND

15' Buffer
30' Buffer
45' Buffer
Site Features

Removal Depths
1' Deep
2' Deep

Existing Building
Concrete Pad

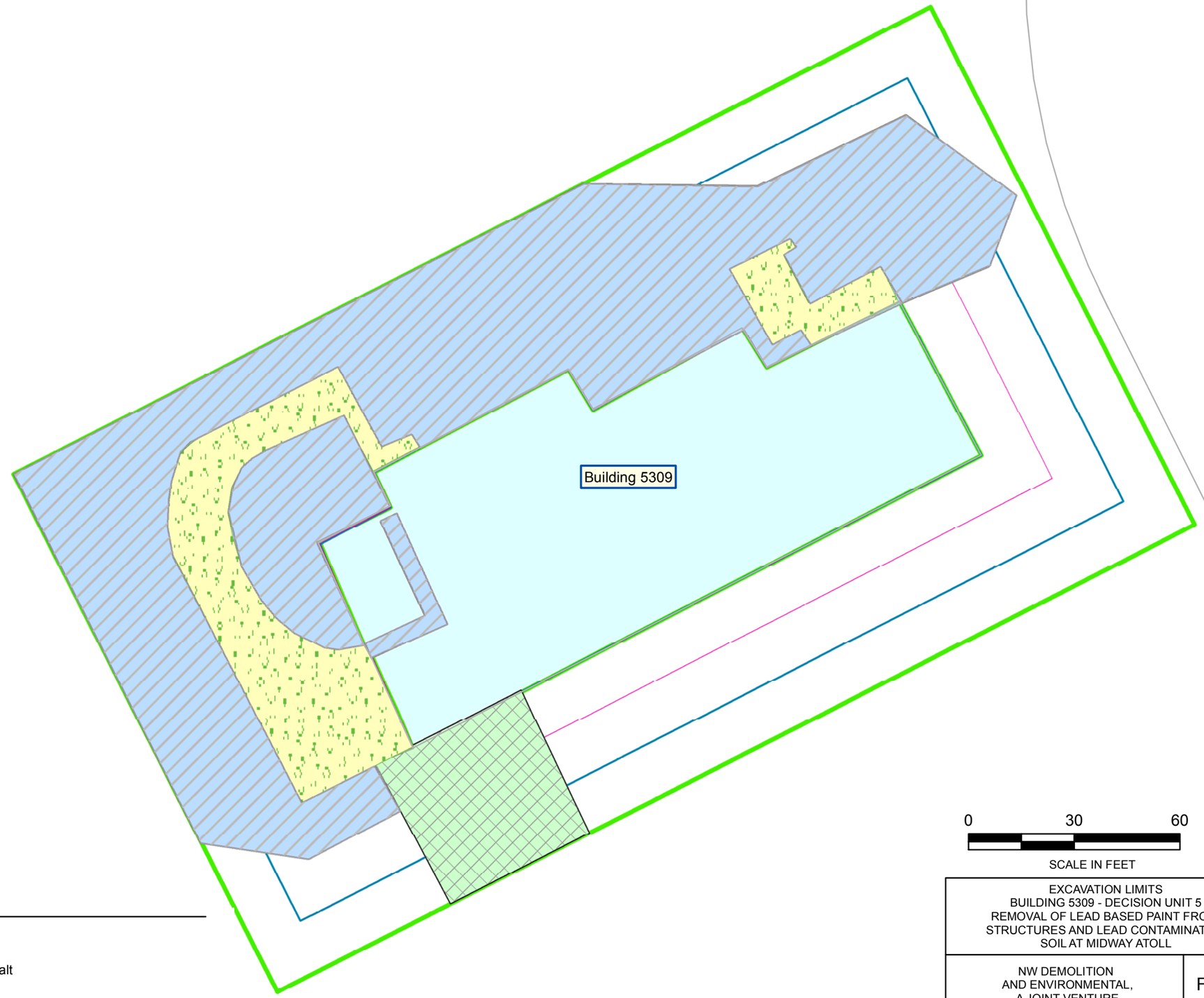
EXCAVATION LIMITS
DECISION UNIT 3
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

FEB 2016

Figure:
2

Path: N:\Midway\GIS\Eng_2015_Report\Figure2_ExcavationLimits_DU3.mxd



0 30 60

SCALE IN FEET

LEGEND

15' Buffer

30' Buffer

45 ft Building Buffer

Site Features

Removal Depths

0.5' Deep Underlain by Asphalt

1' Deep

2' Deep

EXCAVATION LIMITS
BUILDING 5309 - DECISION UNIT 5
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

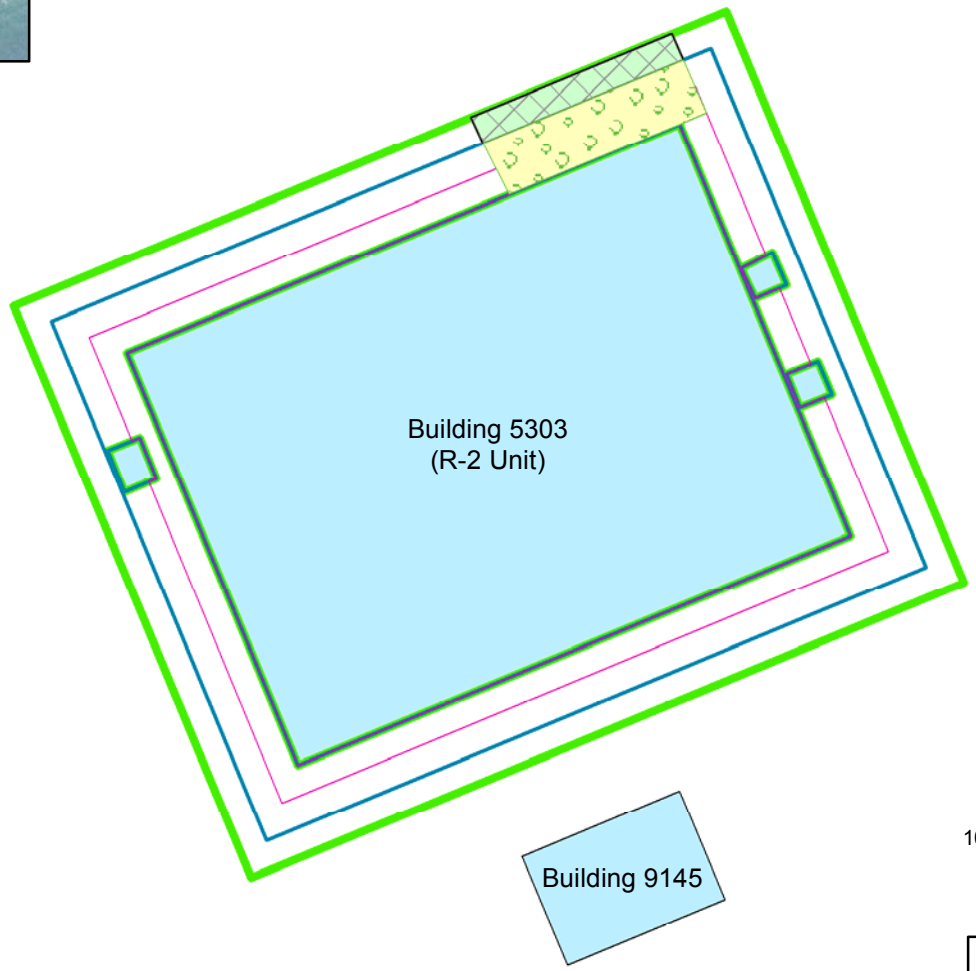
NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

FEB 2016

Figure:

3

Path: N:\MMidway\GIS\End_2015_Report\Figure3_ExcavationLimits_DU5.mxd



N

100 50 0 100 Feet

15' Buffer
30' Buffer
45' Buffer

Removal Depths

0.5' Deep Underlain by Asphalt
2' Deep

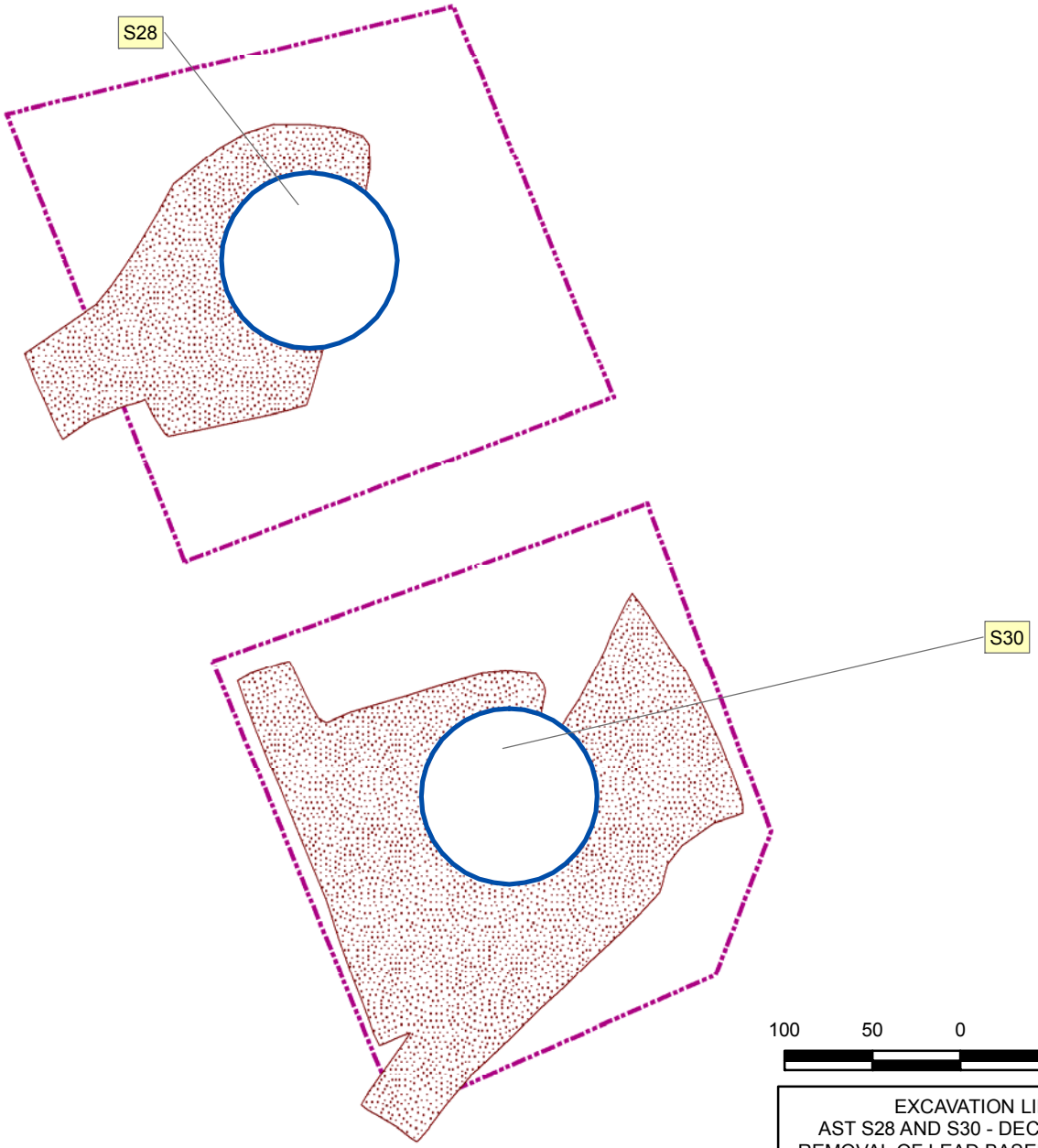
EXCAVATION LIMITS
BUILDING 5303 - DECISION UNIT 5
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Feb 2016

Figure
4

Path: N:\MMidway\GIS\End_2015_Report\Figure4_ExcavationLimits_DU2.mxd



N

100 50 0 100 Feet

Former Structure

Removal Depths

Surface Scrape Area (0-3")

EXCAVATION LIMITS
AST S28 AND S30 - DECISION UNIT 8
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Feb 2016

Figure
5

Path: N:\MMidway\GIS\End_2015_Report\Figure5_ExcavationLimits_DU9_S28_S30.mxd

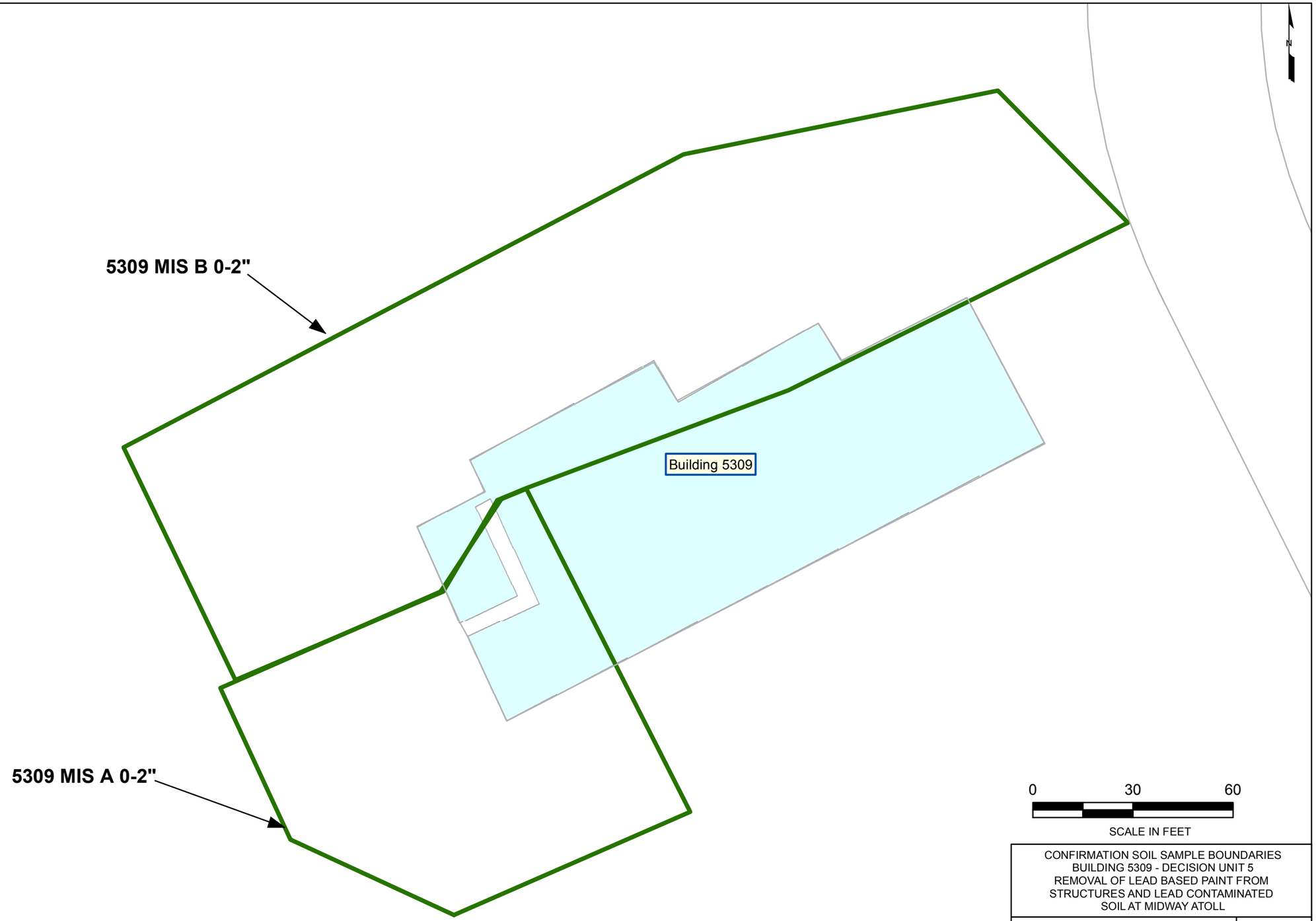
CONFIRMATION SOIL SAMPLE BOUNDARIES
DECISION UNIT 3
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | FEB 2016

Figure:
6

Path: N:\MIdway\GIS\Eng_2015_Report\Figure6_ConfirmationSoilSampleBoundaries_DU3.mxd



LEGEND

MIS Plots

Site Features

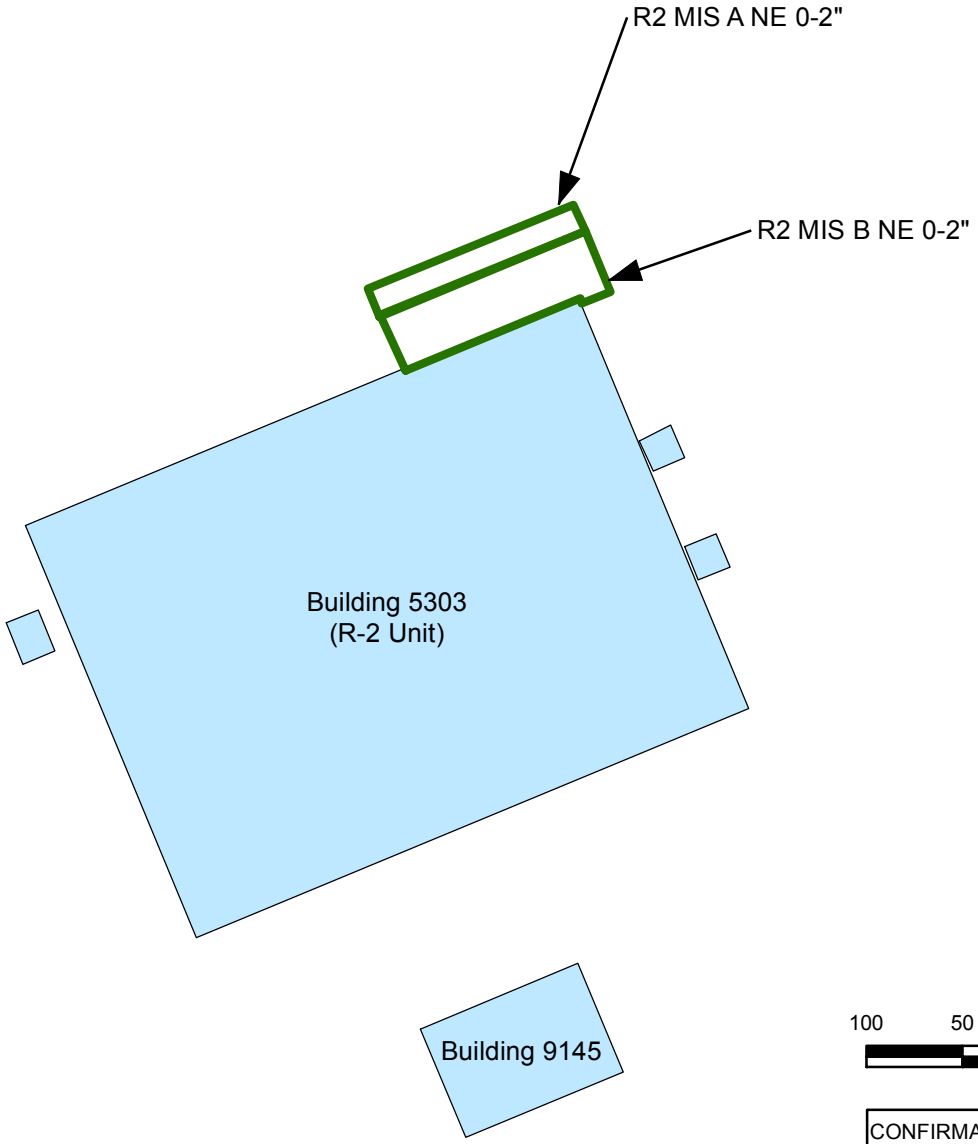
CONFIRMATION SOIL SAMPLE BOUNDARIES
BUILDING 5309 - DECISION UNIT 5
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

FEB 2016

Figure:
7

Path: N:\MMidway\GIS\End_2015_Report\Figure7_ConfirmationSoilSampleBoundaries_DU5.mxd



N

100 50 0 100 Feet

MIS Plots

CONFIRMATION SOIL SAMPLE BOUNDARIES
BUILDING 5303 - DECISION UNIT 5
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Feb 2016

Figure
8

Path: N:\MMidway\GIS\End_2015_Report\Figure8_ConfirmationSoilSampleBoundaries_DU2.mxd

N

100 50 0 100 Feet

MIS Plots
Former Structure
Approximate HDPE Liner Extents

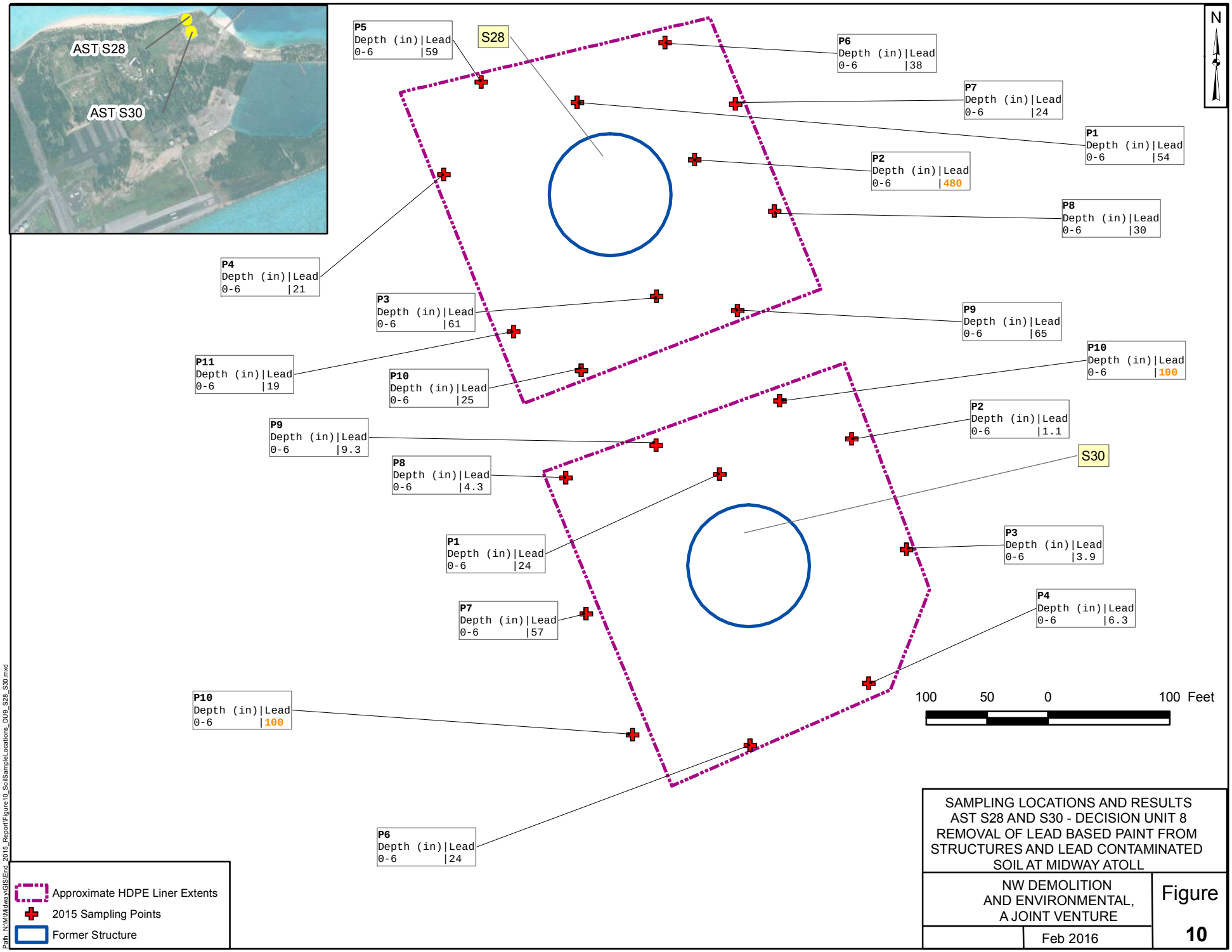
CONFIRMATION SOIL SAMPLE BOUNDARIES
AST S28 AND S30 - DECISION UNIT 8
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Feb 2016

Figure
9

Path: N:\MMidway\GIS\End_2015_Report\Figure9_ConfirmationSoilSampleBoundaries_DU9_S28_S30.mxd



SAMPLING LOCATIONS AND RESULTS
AST S28 AND S30 - DECISION UNIT 8
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Feb 2016

Figure
10

Path: N:\MMidway\GIS\End_2015_Report\Figure10_SoilSampleLocations_DU9_S28_S30.mxd

APPENDIX A

DAILY FIELD REPORTS

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 08, 2015
Prepared by: Scott Wakefield

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

Weather: Cloudy, wind 14mph, Temperature ~81F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Dan Clark	U.S. FWS
Bret Wolfe	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0600 – NWDE team arrives at Air Services Hawaii to fly to Midway Atoll for the 2015 Season.

0800 – Charter flight travel from Honolulu International Airport (HNL) to Midway Atoll (PMDY) on board a Gulfstream II jet. Arrive at Henderson Air Field and offload.

1200 – Lunch.

1300 – U.S. Fish & Wildlife Service, Midway Atoll Cultural and Biological awareness orientation, presented by B. Wolfe, U.S. FWS. Introduction by D. Clark, U.S. FWS.

1430 – Open up storage sea shipping containers and begin prepping supplies, checking inventory and readying heavy equipment.

1730 – End of day.

Photographs:

Photo 01: NAF staging area of NWDE equipment.

Daily Field Report

Date: Tuesday, September 09, 2015
Prepared by: Scott Wakefield

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

Weather: Cloudy, wind 9mph, Temperature ~83F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
Task work today focuses on preparing excavation equipment for operation, inventory verification and utility locates for the DU3, DU5 work areas. Below grade locate includes power, water, sewer and fiber optic lines in and near the excavation work zones.

0800 – Discuss utility locate with Eric Moore, DBSI. The utility crew will begin marking at the Officers' Quarters, moving to Bravo Barracks, Charlie Barracks, Midway House & Duplex housing.

NWDE continues preparing equipment out of off season storage.

1130 – Lunch.

1200 – NWDE remains on task for O&M of onsite heavy machinery.

1730 – End of day.

Photographs:

Photo 01: DU-3. Utility locate marking for power and water through excavation work site.

Photo 02: R2 view west. Utility locate of 8" water line parallel to south exterior wall.

Photo 03: R2 view east. Interim shade cloth remained well placed during the off season.

Daily Field Report

Date: Tuesday, September 10, 2015
Prepared by: Scott Wakefield

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

Weather: Partly cloudy, wind 9mph, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	5

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
Task work continues today for preparing excavation equipment for operation, parts ordering for a few Kahana shipment items and DU8 details for liner location and coverage depth.

0800 – Draw up figure for documenting the Fuel Tank Farm liner orientation at each of the two abandon JP5 tanks. At Tank S28 (northwest most unit), inspect the torn and tattered HDPE liner to determine the extents in place vs disturbed and uncovered containment bottom within the former berm area. In general the S28 tank containment liner has been disrupted over the years. Suspecting the wind has flailed it apart once the berm edges were decommissioned in prior years. The liner has been torn from excessive stress through the parent material and not failing seams or mechanical cuts.
Tank S29 (northeast most unit) was removed by others years ago and is a vacant lot. Only the berm area remains and indications of liner bits.

1200 – Lunch.

1230 – NWDE continues work tasks at the NAF staging area. Two shipping containers are prepared to be sent out on the Kahana later this month. Other storage connex boxes are consolidated. O&M continues for the line of earth moving equipment.

At the Fuel Farm, tank S30 (south unit) appears to have the HDPE line covered in place 80% with coral materials. Determine the extents of the black liner around the tank and elevation depths.

1730 – End of day.

Photographs:

Photo 01: Fuel Tank S28, view south. Black HDPE containment liner is not intact or covered.

Photo 02: Tank S28. HDPE liner is ~.050" (thickness of a dime.)

Photo 03: Tank S30 HDPE containment is largely intact and covered with coral.

Daily Field Report

Date: Friday, September 11, 2015
Prepared by: Scott Wakefield

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

Weather: Light morning rain, cloudy, wind 9mph, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
Prepping to get the R2 accessible for hauling soils into the cells this season.

0900 – Mobilizing the Volvo excavator and off road truck to haul clean coral sand to the R2 work area. The borrow source material located at the north cargo pier will be used to build a truck ramp to allow driving into the R2 cell berm on the west entrance. This ramp prevents having to remove the existing R2 berm to dump future treated soils into the cells.

At the beach, a biological monitor is positioned to watch for sea life during loading tasks of the coral. No animals were present during excavation work.

Hauling route for the off road Volvo is a predetermined path to stay clear of town and vehicle conflicts.

1200 – Lunch.

1300 – Clean soil placement is going in at the R2 entrance. The grade is made for easy approach angle to the cell berm.

1500 – Set up decon station. A clean poly tote and equipment is brought to the R2 site. This will be used to clean the off road truck tires once hauling of treated soil begins.

1730 – End of day.

Photographs:

Photo 01: Hauling clean coral from the approved borrow source at the cargo pier.

Photo 02: Begin clean fill material to access R2 cells elevated berm.

Photo 03: Ramp grading for R2 access.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					**Treated Soil Totals**[1,2]		
	Applied Today (gal)				Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/08/15	0	0	0	0	0	0	0	0
9/09/15	0	0	0	0	0	0	0	0
9/10/15	0	0	0	0	0	0	0	0
9/11/15	0	0	0	0	0	0	0	0
9/12/15	0	0	0	0	0	0	0	0
Total to Date	0 soil	0 soil	0 walls	0 soil				

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30

Table 2. Clean Backfill Total Estimates

Date	DU3 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/08/15	0	0
9/09/15	0	0
9/10/15	0	0
9/11/15	0	0
9/12/15	0	0

Date	DU5 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/08/15	0	0
9/09/15	0	0
9/10/15	0	0
9/11/15	0	0
9/12/15	0	0

Date	DU8 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/08/15	0	0
9/09/15	0	0
9/10/15	0	0
9/11/15	0	0
9/12/15	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

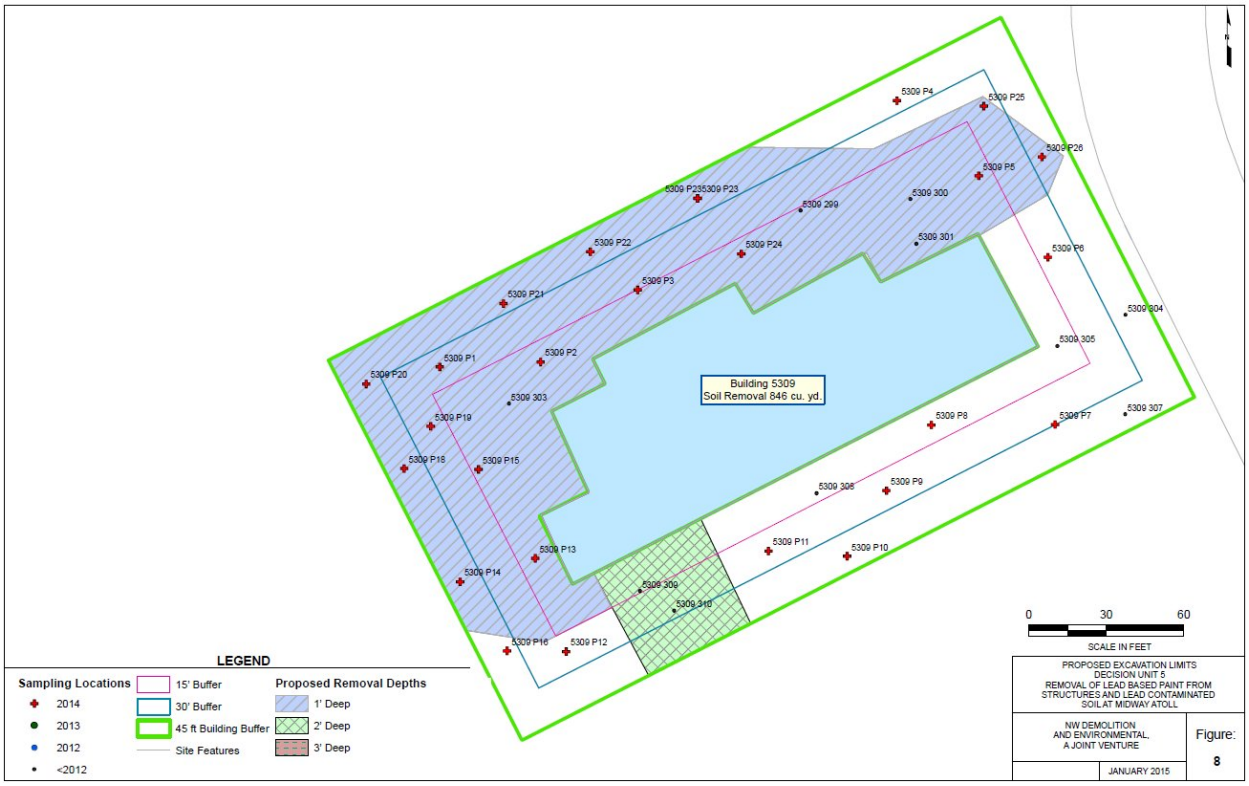
DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU4 /DU7 Wood Into R2	Clean coral backfill for R2 Ramp
9/08/15	0	0	0	0	0	0
9/09/15	0	0	0	0	0	0
9/10/15	0	0	0	0	0	0
9/11/15	0	0	0	0	0	5 (75cuyds)
9/12/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Saturday, September 12, 2015
Prepared by: Scott Wakefield

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

Weather: Morning rain, cloudy, wind 23-30mph, Temperature ~78F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
Continue prepping to get the R2 accessible for hauling soils into the cells this season. Going through Maectite application equipment, PPE, hoses and pumps.

0800 – Discuss live utility at the R2 exterior wall with M. Amman, U.S. FWS. Indication is that a small 1" pvc water line and valve begin at the northeast corner of the R2, approximately 20' east of the wall. The water pipe has 0-6" of burial and is oriented to run parallel to the east and south walls, directly along the R2 concrete wall. The concern is leaving a mis-matched, weathered pvc water line in the proposed capping fill area is risking a water line break.
The water line appears to terminate at the navigational aid building south of the R2 as an outside faucet.

0900 – To the Fuel Tank Farm for determining flanges and materials required to disassemble tanks S28 & S30. Piping connections that will remain in place will be gasket & blind flanges bolted up when disconnected from the tanks. Noted details of low pipe elevations having potential for liquid accumulation.

NWDE is placing a second decon tote at the R2 with water.

1200 – Lunch.

1300 – NWDE has prepared the decon totes for use of a submersible pump and hoses needed for upcoming vehicle decon station at the west R2 entrance.
Continue O&M of pickup trucks and air compressor skids.

At the Tank Farm, field verify accessible ports in the smaller piping to the three ASTs. Stencil numbers 32, 33 & 31 are identified on the tanks.
Mogas (32- northern), 15,000 gal JP-5 (33- middle) and 24,000 gal JP-5 (31- southern.)
Two accessible ports have presence of a clean, yellow tinge kerosene type fuel. A sample is collected. Volume of fuel in the piping is unknown. Some access pipe stubs are located mid pipe, so the lower half of the pipe is not verified for liquids. A few process valves have pilot ports with plugs. However, ports located mid body does not indicate the liquid potential in the bottom of the valve.
Ports with liquids verified are marked on the pipe.

1600 – NWDE has made good progress in getting equipment and supplies in order for the season. Lists of items needed that can be shipped out on the upcoming Kahana are updated and will be finalized to make the shipping deadline.

1730 – End of day.

Photographs:

Photo 01: Piping to 24,000 gallon southern tank 31. Red port has fuel present.

Photo 02: Piping at southern tank 31. Bottom red port on left has fuel vapor, right port liquid.

Photo 03: Piping manifold at mid containment that serviced S28, S29, S30.

Photo 04: East R2 exterior wall (L) and Bldg 5339 (R) with marked water line in proposed buttress area.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)				Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/08/15	0	0	0	0	0	0	0	0
9/09/15	0	0	0	0	0	0	0	0
9/10/15	0	0	0	0	0	0	0	0
9/11/15	0	0	0	0	0	0	0	0
9/12/15	0	0	0	0	0	0	0	0
Total to Date	0 soil	0 soil	0 walls	0 soil				

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30

Table 2. Clean Backfill Total Estimates

Date	DU3 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/08/15	0	0
9/09/15	0	0
9/10/15	0	0
9/11/15	0	0
9/12/15	0	0

Date	DU5 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/08/15	0	0
9/09/15	0	0
9/10/15	0	0
9/11/15	0	0
9/12/15	0	0

Date	DU8 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/08/15	0	0
9/09/15	0	0
9/10/15	0	0
9/11/15	0	0
9/12/15	0	0

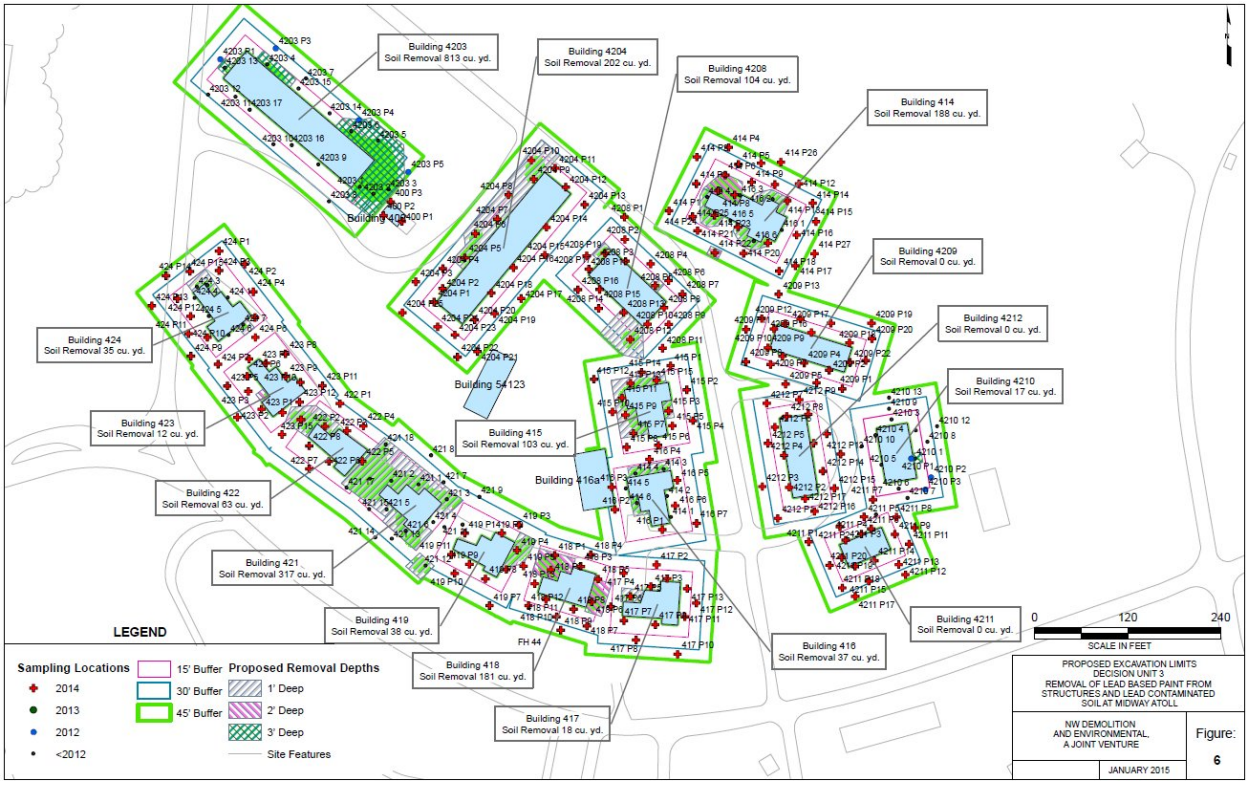
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30

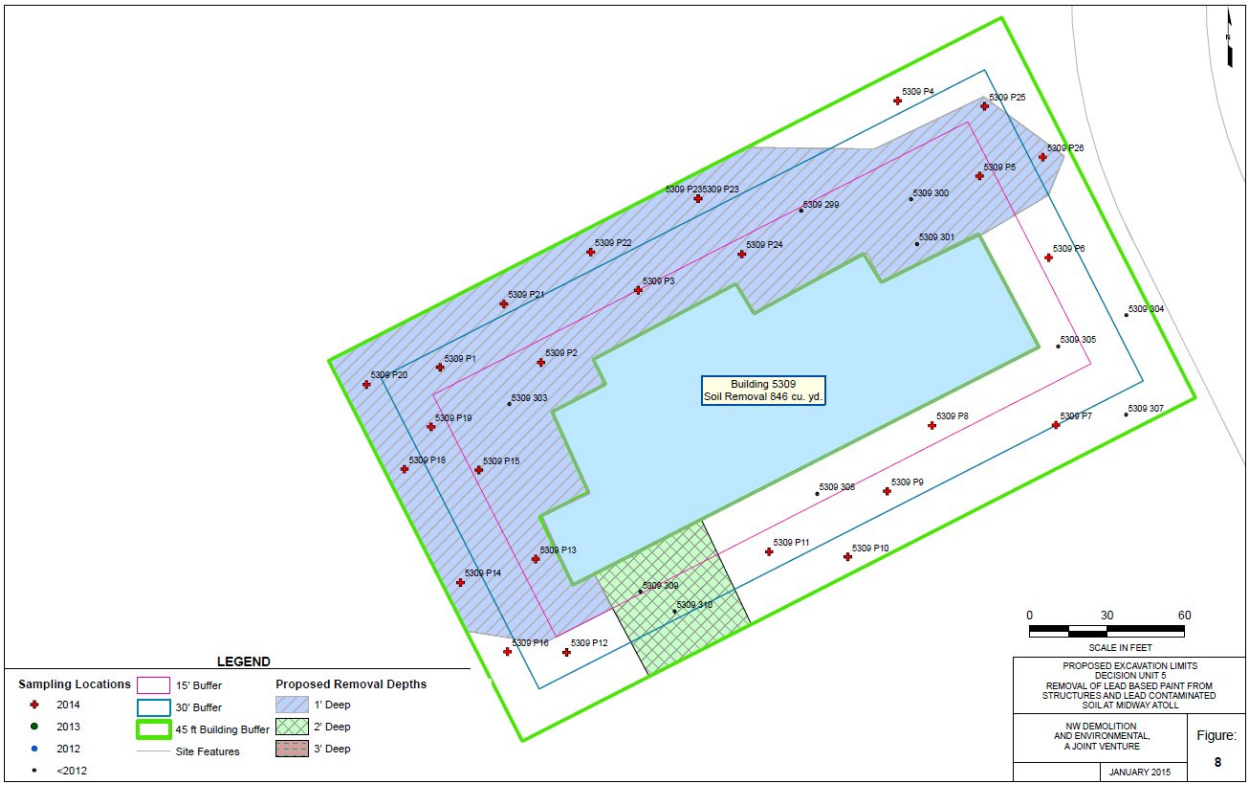
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU4 /DU7 Wood Into R2	Clean coral backfill for R2 Ramp
9/08/15	0	0	0	0	0	0
9/09/15	0	0	0	0	0	0
9/10/15	0	0	0	0	0	0
9/11/15	0	0	0	0	0	0
9/12/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Monday, September 14, 2015
Prepared by: Scott Wakefield

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

Weather: Morning mist, cloudy, calm winds, Temperature ~75F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	214 gallons	9-12-15 into truck day tanks.
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE works to finalize the Maectite equipment and load up the first full tote onto the F450 flatbed.

0800 – M. Amann, U.S. FWS, discussed logistics with Eric Moore, DBSI, for task work at the Fuel Farm. Specifically the detail of collecting fuel liquids discovered in the above ground piping. A second assessment will be made to determine estimated total volume of liquids in the piping. Tank conditions and inspections will be made to verify that the smaller AST tanks are properly prepared for future demolition. With updated information, NWDE can define DBSI tasks for containment and storage of the liquids.

At DU3, Bldg 424 begin excavation layout on the northwest end of the project. Working southwest, mark out Bldgs 424, 423, 422, 421 for this week's upcoming treatment and excavation work. Touch up locate markings for previously identified below grade utilities.

1200 – Lunch.

1300 – NWDE is moving supplies to the DU3 work area and staging onsite. Pallets for sandbags and shade cloth are brought in. Set up for fire hoses and fittings to connect water supply for mixing requirements. Mobilize the mini excavator and skidsteer to the work site.

1530 – NWDE crew at the staging area has collected trash and debris and make a disposal run. O&M work on the equipment as punch list items get knocked off for equipment preparations.

1730 – End of day.

Photographs:

Photo 01: Load up the first liquid Maectite tote onto the flatbed for mobility to treat soil plots.

Photo 02: DU3, view southeast. Mobilize equipment and supplies to work site.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals					**Treated Soil Totals**[1,2]		
	Applied Today (gal)				Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/14/15	0	0	0	0	0	0	0	0
Total to Date	0 soil	0 soil	0 walls	0 soil				

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30

Table 2. Clean Backfill Total Estimates

Date	DU3 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/14/15	0	0

Date	DU5 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/14/15	0	0

Date	DU8 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/14/15	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

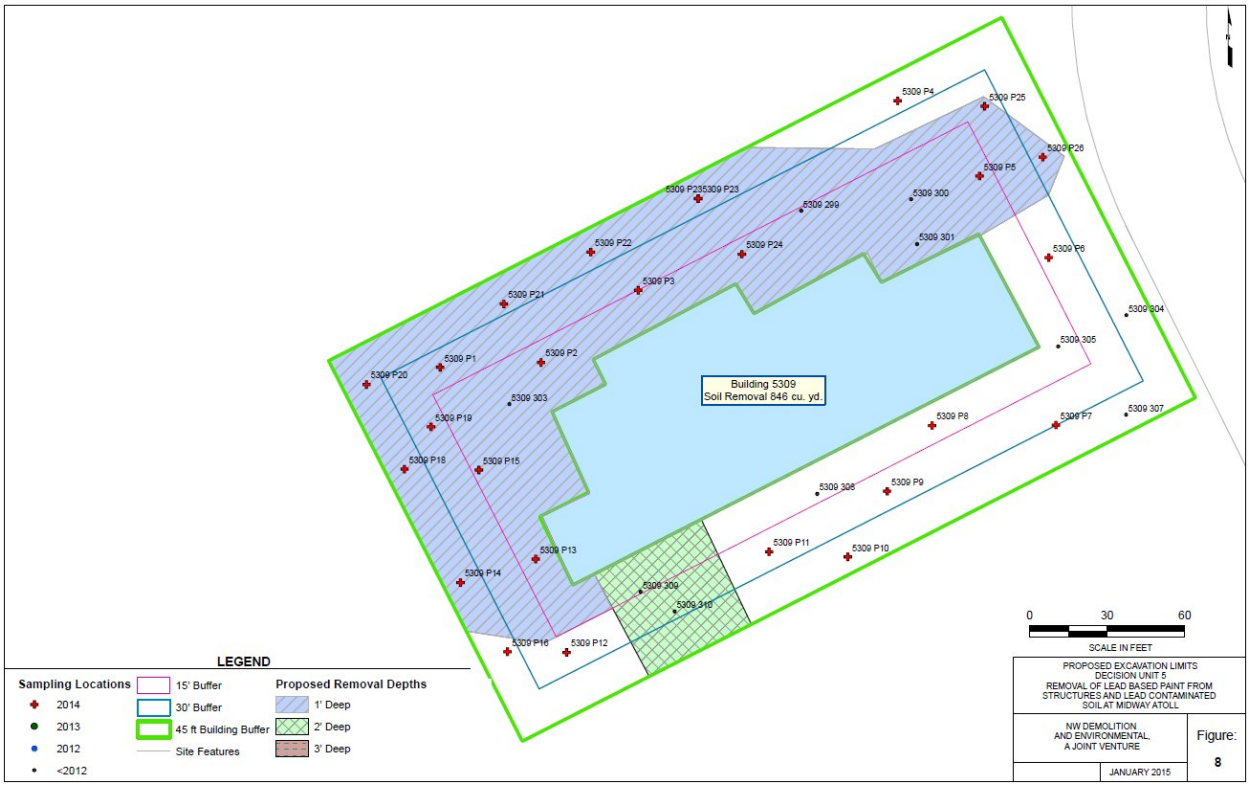
DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/14/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, September 16, 2015
Prepared by: Scott Wakefield

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

Weather: Partly cloudy, wind 12 mph, Temperature ~81F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	10
Garrick Arakaki	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	10
Michael DeCarlo	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE
Ford truck	F-250	DBSI

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE mobilizes to Bldg 424 officers' quarters to continue work per approved excavation limits Figure 6. Iniki crew gears up to transfer the heavier paint supplies and application equipment from the NAF staging area to Bldg 4203 Bravo. A Ford pickup truck is rented from DBSI to move the materials in a short manner.

0830 – At Bldg 424 the Maectite application system is set up to apply liquid reagent to the LBP impacted soil. A water line utility at the northwest corner of Bldg 424 is carefully excavated to pull the soil back near the 20" deep line. Once the soil is clear of the utility by a few feet the treatment and mixing can begin.
Maectite treatment of the small plots of LBP impacted soil is applied at .75 gallons per cubic yard, amended with fire hydrant water and mixed to a uniform consistency. These methods of treating the soil and application are per the chemical manufacturer Sevenson, MANWR Stabilization Plan August 2013. This is the same reagent and application methods approved within the Removal Action Work Plan for prior seasons Decision Unit soil treatment.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1045 – Iniki team has positioned skips of LeadStop Elastomeric coating near the Bravo barracks. The five gallon pails will be used to encapsulate the Maectite treated Bldg 4203 once properly prepared. Ground work preparations along the walls of the barracks is going forward. The ground burrows are searched for petrel birds in the direct work zone that will be impacted.
6mil poly sheeting in a 20' width is positioned at the foundation and extends outward from the building. The long edge of the sheeting is adhered to the building's foundation using 2" wide reinforced tape and contact adhesive spray cement.

NWDE has the Volvo A30 off road truck in use to haul treated soil from DU3 to the R2 repository. Loads are placed in Cell 2 to begin covering the primary top lift of wood debris. This Wolminized treated wood is from 2013 demo of the Marine barracks Bldg 578 & 579.
Shade cloth on Cell 3 has progressed to be removed in sections for dumping of the treated soil. Sandbags and cloth are picked up and stacked on pallets to be moved with the Bobcat skidsteer,

1200 – Lunch.

1330 – Iniki continues to roll out the 6mil poly sheeting and adhere it to the vertical foundation. Along the southwest work area of Bravo barracks the petrel burrows are searched and birds removed prior to the exclusion zone placement. The outer edges of the poly sheeting are secured using sandbags and delineator cones.
Using the JLG manlift, Maectite mixture is applied to the exterior walls of Bldg 4203 with a pressure washer. Foundation, walls and under eves are sprayed to have direct contact and treatment of the LBP materials of the building. The northeast long wall of the barracks is being worked at.

1430 – NWDE has a small two person crew at the R2, Cell 2 for continuing shade cloth removal and grading the entrance as the few initial loads of treated soil from DU3 arrive. A suitable inner ramp will allow proper access for the truck to enter, dump, decon and depart.

1530 – NWDE is working at the southwest side of Bldg 423 for the small 2' depth excavation. A route is established and bird burrows inspected to allow the mini excavator and skidsteer to access the isolated plot. Soil is excavated and carefully moved to the northwest Bldg 422 large treatment area. Moving the soil to be treated in the adjacent plot eliminates mixing over a below grade fiber optic line to the officer's quarters.
Shade cloth in the laydown plot is being pulled up to prepare for task work between Bldg 423 and 422.

1730 – End of day.

Photographs:

Photo 01: Bldg 424- View west. Loading Maectite treated soil into the A30 Volvo.

Photo 02: Bldg 4203- View west. LeadStop elastomeric coating materials are staged near Bravo.

Photo 03: Bldg 424- View northwest. Loading out treated soil.

Photo 04: Bldg 4203 Bravo- View south. Poly exclusion zone work area in place.

Photo 05: R2 Cell 2- View south. Progress of cloth removal and import treated soil.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/14/15	0	0	0	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0	0	0	0
9/16/15	31.5	20	0	0	0	31.5	3	45	45
Total to Date	31.5 soil	20	0 soil	0 walls	0 soil				

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date	DU3 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/14/15	0	0
9/15/15	0	0
9/16/15	0	0

Date	DU5 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/14/15	0	0
9/15/15	0	0
9/16/15	0	0

Date	DU8 Clean Backfill Totals[2]	
	Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/14/15	0	0
9/15/15	0	0
9/16/15	0	0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

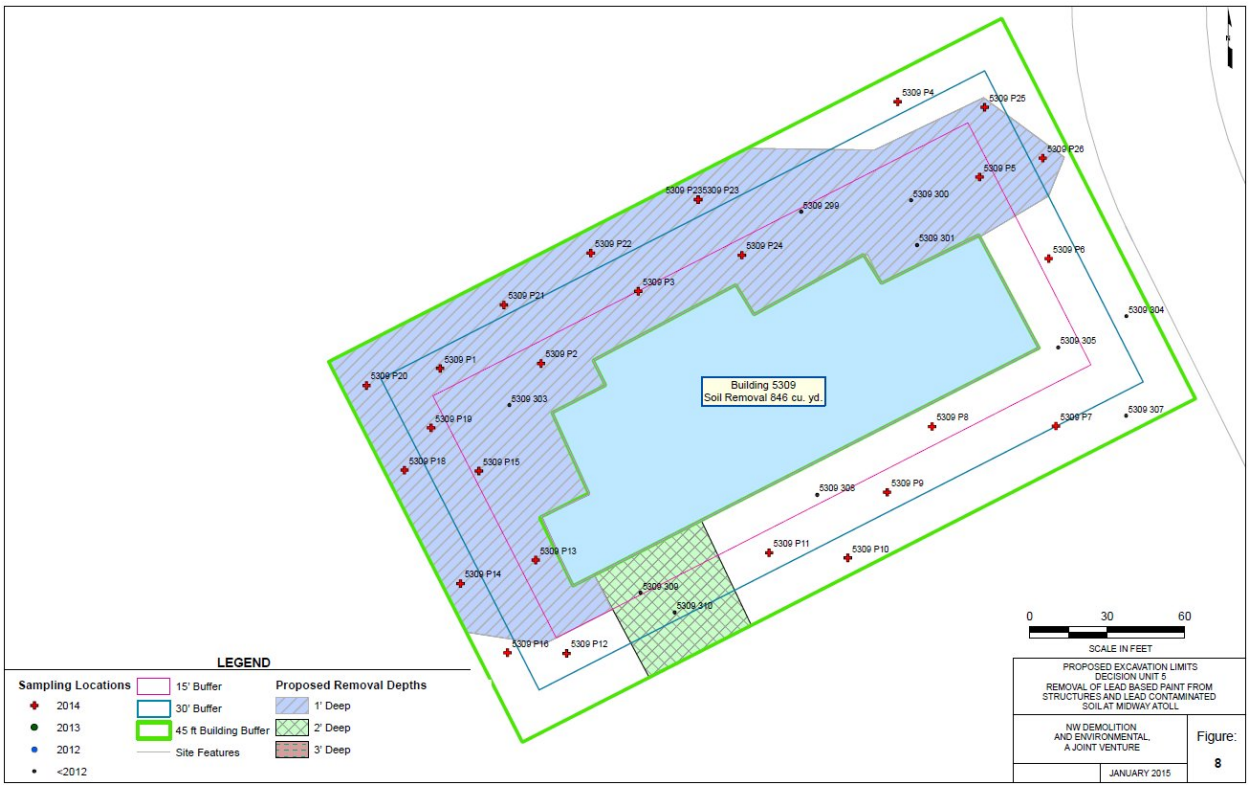
DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/14/15	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0
9/16/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, September 17, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 6 mph, Temperature ~84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	10
Garrick Arakaki	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	10
Michael DeCarlo	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE mobilizes to Bldg 422 officers' quarters to go forward with LBP impacted soil treatment.
Iniki will continue at Bldg 4203 Bravo with exterior wall and eve abatement tasks.

0800 – Maectite application for Bldg 422 is in place and being mixed with the Cat mini excavator using a 48" flat edged bucket. The treatment chemical is mixed throughout the soil with the addition of fire hydrant water and mechanical movement of the coral sand. The treatment area is mixed to a consistency to allow surface contact of the coral and reagent solution.

0850 – NWDE has the first A30 Volvo loaded and on its way to the R2. The north side of Bldg 422 is pulled back and then finished off by hand to clean up to the concrete foundations. A below grade electrical line is carefully exposed as to not damage the wiring or conductors. At Bldg 421, layout grids and calculate the volume of Maectite for soil treatment.

Iniki manlift crew is spraying Maectite at the northwest end of Bldg 4203, working around to the buildings' southern long wall. From the eves down to the ground surface the entire three story building walls are drenched with Maectite for beginning abatement work of the lead based paint.
Behind the spray crew, two ground workers are performing lead scrape work. Loose paint is mechanically removed to prepare for upcoming elastomeric coating of the barracks. Higher scape work will be done with the manlift.

1200 – Lunch.

1330 – Iniki is continuing with lead scrape work at the east side of Bldg 4203. The Maectite spray task has encircled the building, leaving scraping and paint prep tasks left to go before paint is applied this week.

At Bldg 421, Petrel Patrol has gone through for bird burrow searching. The black shade cloth will be lifted off using the mini excavator since a heavier grass growth is locking the cloth down tight to the soil. Used shade cloth is hauled to the R2 using the Volvo truck.

1600 – NWDE team is at the south side of Bldg 421. The fiber optic line is potholed for confirmation and is running at the edge of the excavation limits oriented southeast to northwest. A leg also diverts off into Bldg 421 to serve the house.
Maectite application is placed and mixing is underway using water amendment from the fire hose.
Treated soils are positioned and will be hauled to the R2, Cell 2 in the off road truck.

Iniki is loading up the paint hopper with LeadStop paint in preparation for tomorrows spray coating tasks to begin. LBP waste on the 6mil poly sheeting is being picked up and bagged. The heavy poly bags are twisted, taped and goose necked to be sealed again. This bag is then double bagged, sealed and will be stored with prior project LBP waste in a marked container at the NAF.

1730 – End of day.

Photographs:

Photo 01: Bldg 424- View west. Loading Maectite treated soil into the A30 Volvo.

Photo 02: Bldg 422 plot-View northwest. Hose application of Maectite for soil treatment.

Photo 03: Bldg 4203 Bravo- View northwest. Maectite spray for treatment of the LBP exterior coating.

/

Photo 04: Bldg 4203 Bravo- View west. After Maectite spray and lead scrape, paint debris is collected.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/14/15	0	0	0	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0	0	0	0
9/16/15	31.5	20	0	0	0	31.5	3	43	43
9/17/15	75.8	20	0	0	0	107.3	6	104	147
Total to Date	107.3 soil	40	0 soil	0 walls	0 soil				

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

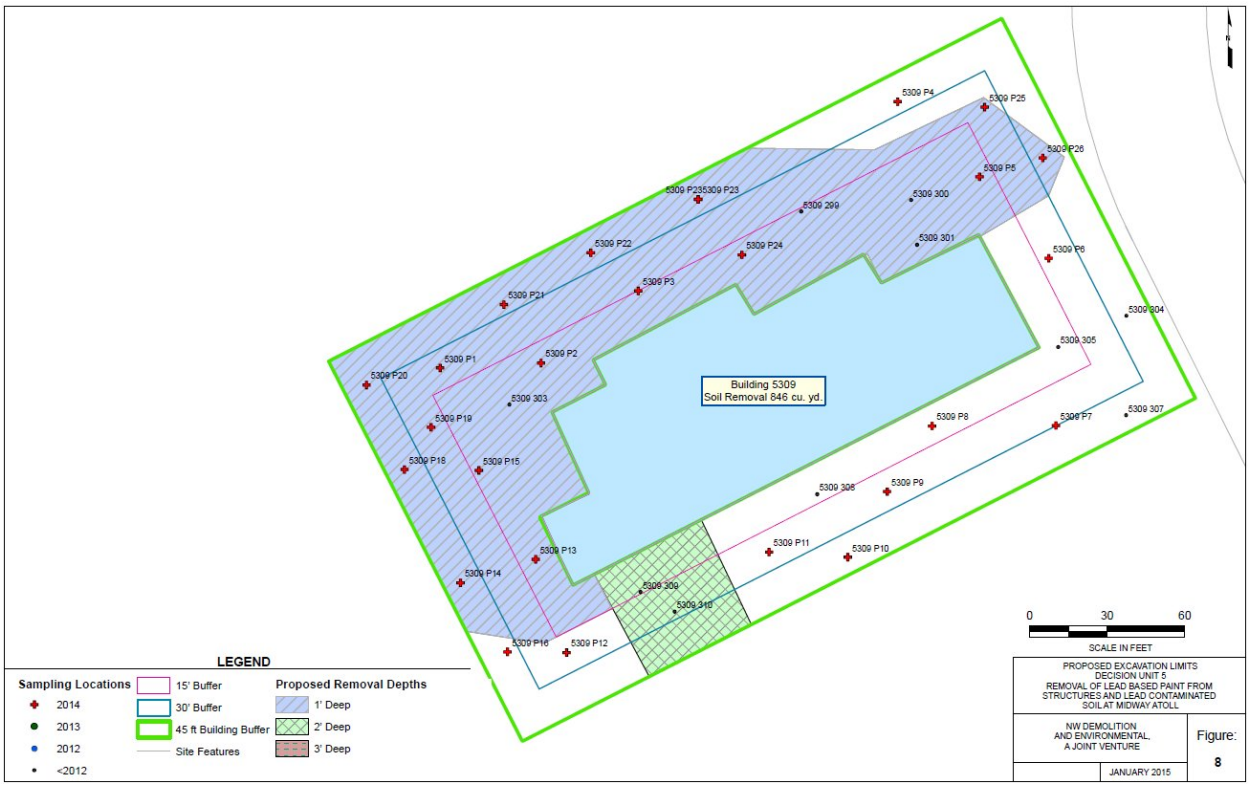
DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/14/15	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0
9/16/15	0	0	0	0	0	0
9/17/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Friday, September 18, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 8 mph, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	10
Garrick Arakaki	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	10
Michael DeCarlo	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	10 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE mobilizes to Bldg 421 officers' quarters. Soil work picks up from yesterday on the southwest side of the building.
Half of Iniki crew goes to the Transmitter Bldg 5309 in DU5 to prep for exterior wall and eve abatement tasks.

0800 – At the Transmitter building the abatement exclusion zone is being set up. 6mil poly sheeting 20' wide is rolled out around the building perimeter. 2" wide tape is used to seal the poly edge to the concrete. Aided by spray on contact adhesive the poly is secured to the foundation to create a catchment for collecting LBP waste during task work.

NWDE group is excavating treated soil from the area south of Officer's Quarters 421. The large area to be treated is divided into sub sections and calculated to apply .75 gallons per cubic yard of Maectite, amended with fire hydrant water and mixed to a homogenous consistency.

1000 – At the north end of Bldg 421 NWDE is excavating across water piping, fiber optic, phone and TV cable that services the row of housing. Adequate pothole locating is done to verify elevations of the various utilities. Fiber optic is in a pvc electrical conduit but the TV for example is a direct burial cable and would not survive the slightest brush with an excavator bucket. The shallow 1' excavation depth keeps separation of 6" – 12" from communications but water piping is right at the excavation grade.

1200 – Lunch.

1245 - NWDE loads out treated soil into the A30 Volvo destined for the R2 Cell 2. This is dumped and spread onto the current wood waste capped cell.

1330 – At Bldg 5309 Iniki workers have the 6mil poly set out and sandbags weighting it down. The wind speed at the south beach runway area is consistently higher than near the housing and care is taken to keep the poly well anchored. Continue to seal the plastic sheeting to the foundation using aqua colored 2" tape and adhesive spray.
The two person Iniki manlift crew is set up and begin to apply Maectite to the exterior of the Transmitter building. A pressure washer with a low pressure high flow tip sprays the liquid reagent and water onto the exterior walls, eves and soffits.

1400 – Bldg 421 northern corner of the excavation encounters an unmarked TV cable. Confirm and field inspect with DBSI IT crew to verify this is a formerly abandon coax. The section of damaged cable is discarded in the bone yard wire pile.

1600 – Bldg 4203 Bravo barracks is receiving the initial LeadStop elastomeric paint onto the first floor long northeast wall. The gas powered industrial paint sprayer and significantly long hose sections allow continuous spraying onto the building. The coating is applied in a consistently even manner.

1730 – End of day.

Photographs:

Photo 01: Bldg 421- View northwest. Petrel Patrol of the ground burrows.

Photo 02: Bldg 5309 Transmitter -View southwest. Maectite spray for LBP treatment and paint prep.

Photo 03: Bldg 421 – Utility encounter in excavation plot. Direct burial TV coax marked as Fiber Optic.

Photo 04: Bldg 421 - View north. Reagent application to LBP impacted soil.

Photo 05: R2 Cell 2 - View west. Treated soil placement on top of Bldg 578 & 579 wood waste.

Photo 06: Bldg 4203 Bravo – LeadStop paint application.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/14/15	0	0	0	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0	0	0	0
9/16/15	31.5	20	0	0	0	51.5	3	43	43
9/17/15	75.8	20	0	0	0	147.3	6	104	147
9/18/15	114	0	0	10	0	271.3	8	120	303
Total to Date	221.3 soil	40 walls	0 soil	10 walls	0 soil		17 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407
9-19-15 - Correct Maectite Total to Date of soil and walls. Needed to include the DU3 walls 20 gallons on 9/16/15 and 9/17/15 to read 51.5 and 147.3 respectively.

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
9/18/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
9/18/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
9/18/15	0	0	0
Total to date- 0 loads			

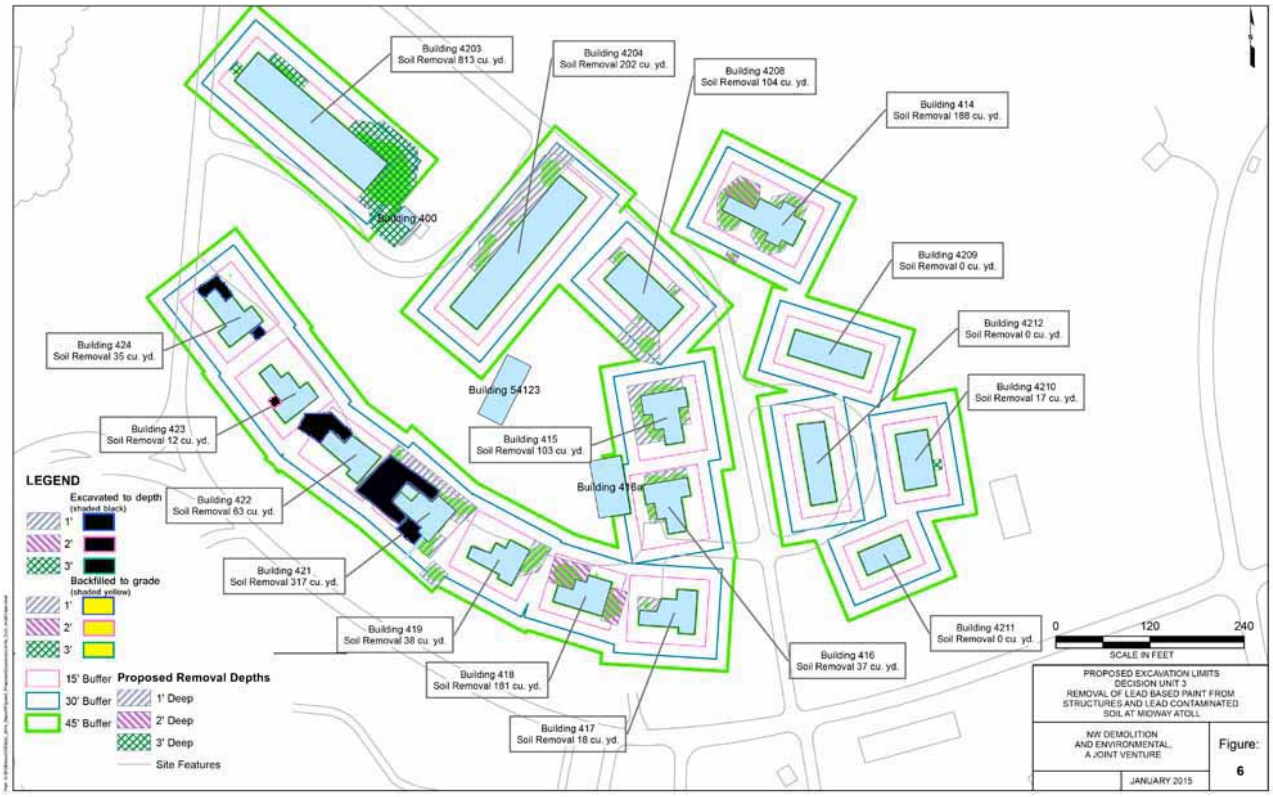
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

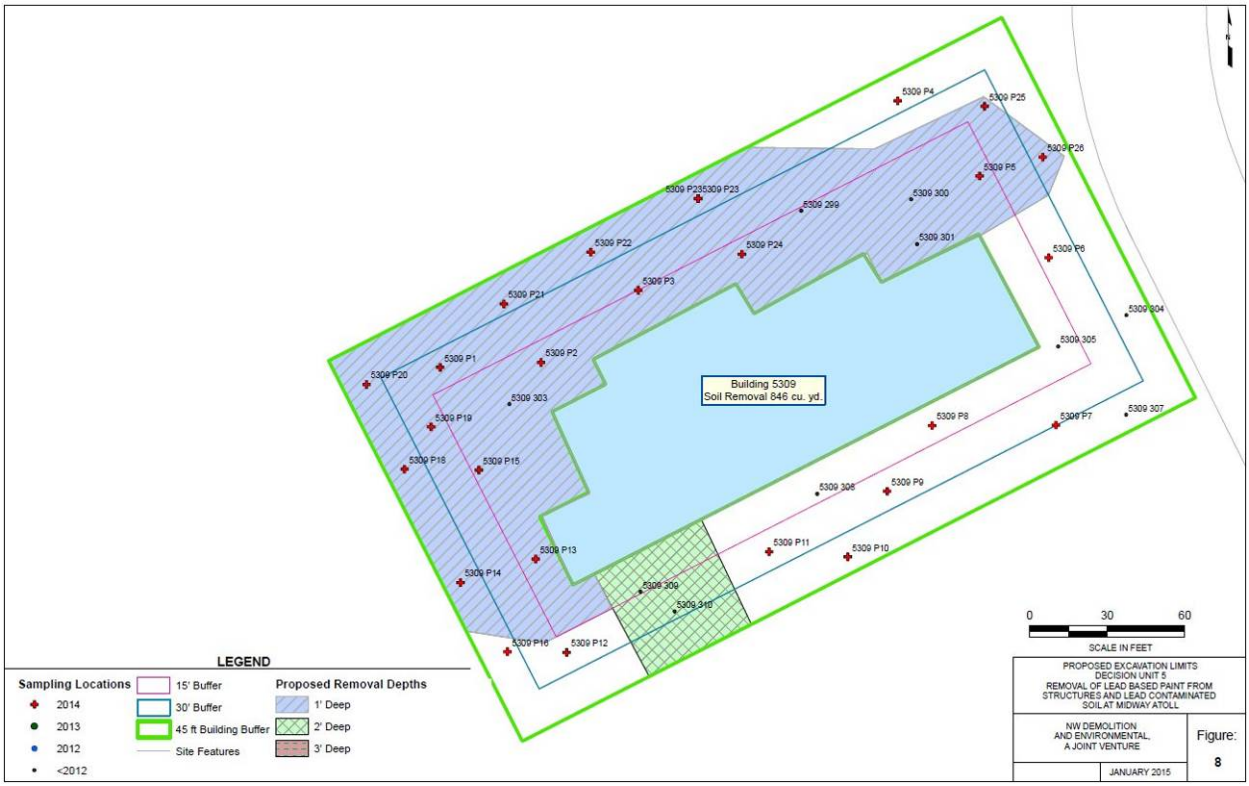
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/14/15	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0
9/16/15	0	0	0	0	0	0
9/17/15	0	0	0	0	0	0
9/18/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, September 19, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 15 mph, Temperature ~86F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	10
Garrick Arakaki	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	10
Michael DeCarlo	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE setting up at Bldg 421 officers' quarters to load out treated soil.
Iniki will be on paint tasks at Bldg 4203 Bravo barracks.

1000 – NWDE has continued to wrap around the northeast side of Bldg 421. Treatment work is occurring at the lone plot of soil south of the housing. Then the mini excavator will work its way north along the eastern side of Bldg 421. The Volvo truck is carefully backed in to allow loading of treated soils. At the R2 placement of loads is still occurring in Cell 2.
Two workers continue to be ahead of the excavation sites removing sandbags and hand digging to locate below grade utilities. The water, power and communications locations are verified and depths indicated on markers. Some prior placed locate paint marks are 4' – 5' off from the paint mark indication. Carefully identifying each below grade live service with routinely shallow burial is required to minimize damage when treating with the mini excavator.

Iniki is using the JLG manlift and working up high to paint the second and third stories of the three level building. The north and northeast long walls are being sprayed with the approved LeadStop elastomeric paint to encase Maectite treated LBP onto the building.

1200 – Lunch.

1300 – NWDE soil crew is getting near the end of treating Bldg 421. This residence has the largest volume of soil treatment for the nine Officers houses.
Shade cloth and layout of Bldg 419 is prepped since it will be next in line for Maectite treatment and excavation.

1430 – Iniki has continued good progress for applying paint to Bldg 4203 Bravo. The vertical walls, eves and former first floor window eve stub outs are painted with LeadStop. The concrete eve stub outs had been cut off in prior years by others, yet the short extension protrudes out. The top ledge, ends and bottom are verified to receive an adequate coating of paint.

1600 – Bldg 419 is receiving Maectite applied at a rate of .75 gallons per cubic yard on the east plot of soil. Hydrant water is added as the mini excavator mixes reagent and LBP impacted coral sand with the flat edged bucket. Treated soils are loaded into the Volvo off road truck and sent to the R2.
The NWDE locate crew has made it to Bldg 4208 while hand digging the utilities and marking as required. Sand bags have also been picked up and palletized for 418, 417, 416, 415.

1730 – End of day.

Photographs:

Photo 01: Bldg 4203 Bravo- View west. LeadStop paint applied to northwest end wall.

Photo 02: Industrial paint sprayer and large capacity hopper for continuous operation.

Photo 03: Bldg 421 – View west. Excavation between road and building below eves.

Photo 04: Bldg 421 - View south. Maectite application at plot area.

Photo 05: Bldg 4203 Bravo – Underside of eves are prepped and painted with LeadStop.

Photo 06: Bldg 4203 Bravo –View south. Progress for applying paint coating on northern wall.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/14/15	0	0	0	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0	0	0	0
9/16/15	31.5	20	0	0	0	51.5	3	43	43
9/17/15	75.8	20	0	0	0	147.3	6	104	147
9/18/15	114	0	0	10	0	271.3	8	120	303
9/19/15	62.75	0	0	0	0	334	6	104	389
Total to Date	284 soil	40 walls	0 soil	10 walls	0 soil		23 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
9/18/15	0	0	0
9/19/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
9/18/15	0	0	0
9/19/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/14/15	0	0	0
9/15/15	0	0	0
9/16/15	0	0	0
9/17/15	0	0	0
9/18/15	0	0	0
9/19/15	0	0	0
Total to date- 0 loads			

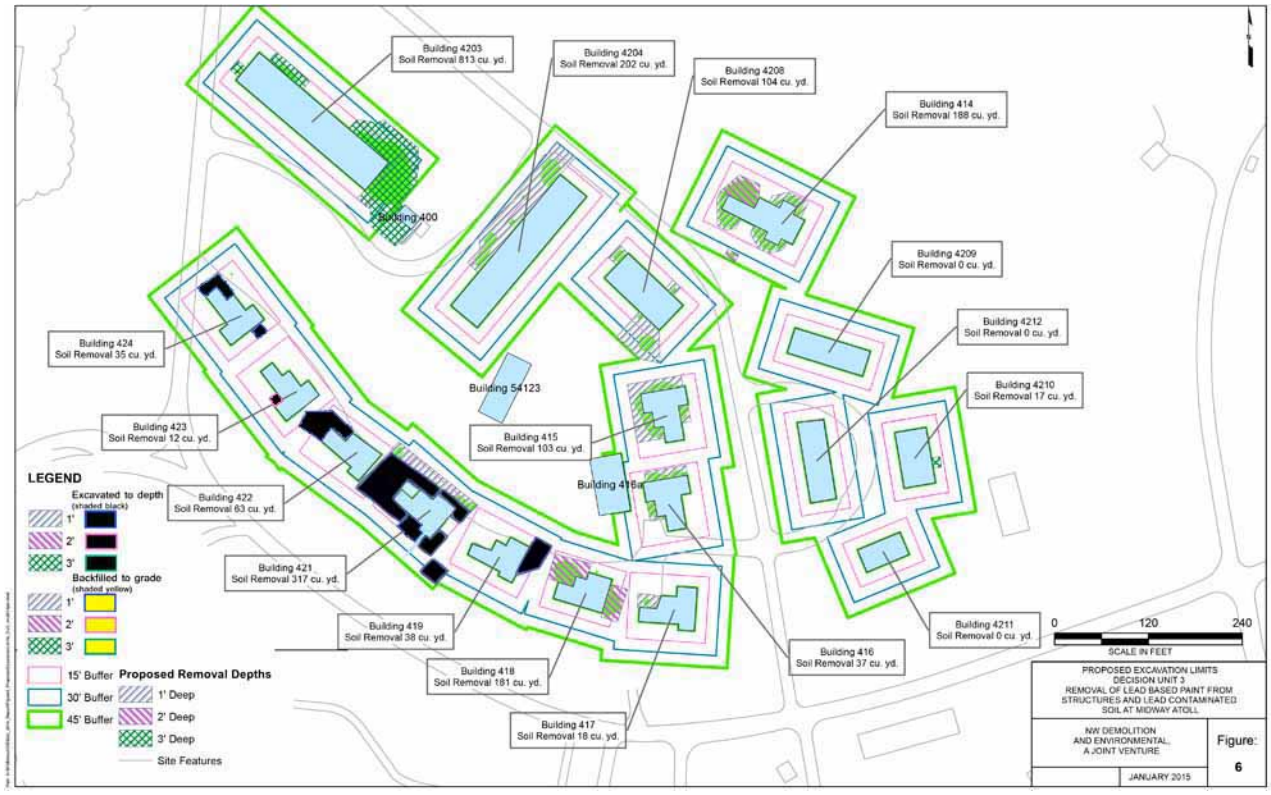
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

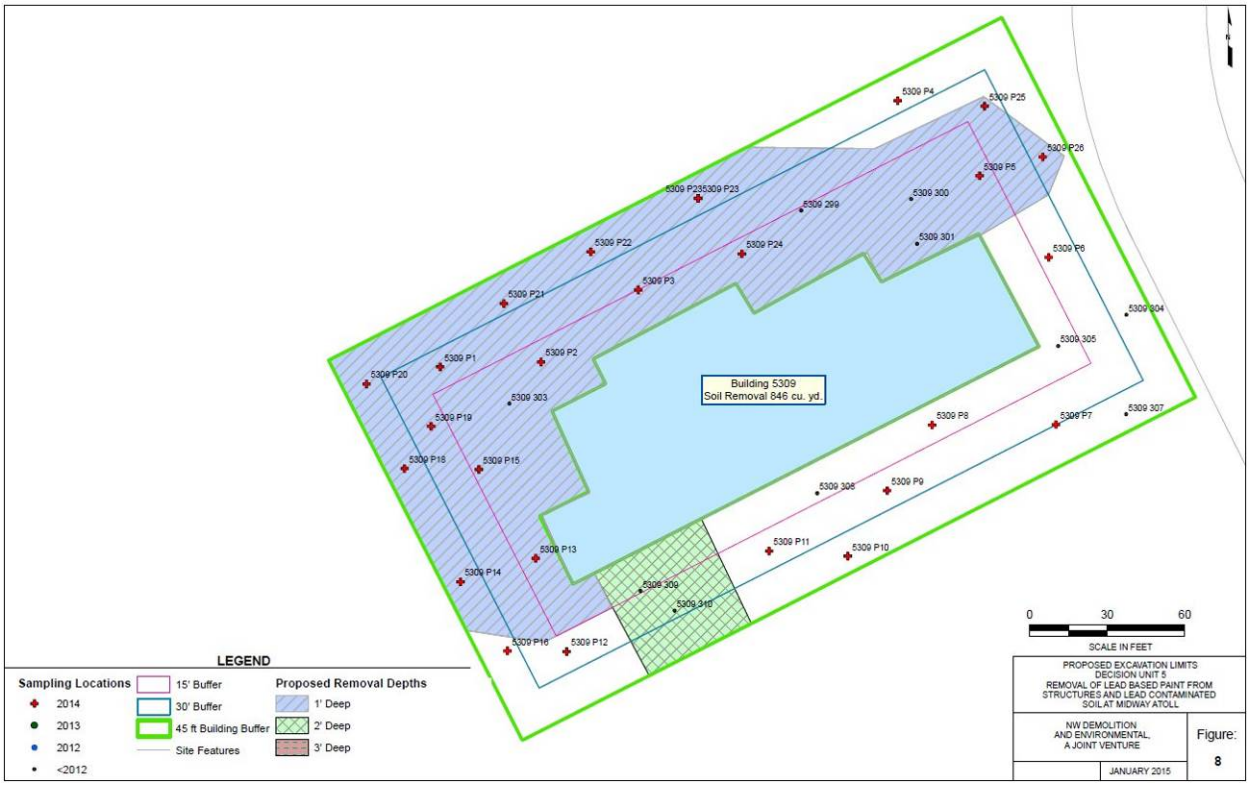
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/14/15	0	0	0	0	0	0
9/15/15	0	0	0	0	0	0
9/16/15	0	0	0	0	0	0
9/17/15	0	0	0	0	0	0
9/18/15	0	0	0	0	0	0
9/19/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Monday, September 21, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 6 mph, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	10
Garrick Arakaki	Iniki Laborer	10
Evan Esposito	Iniki Laborer	10
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	10
Michael DeCarlo	Iniki Laborer	10
Darin Leibelt	NWDE Project Manager	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Dan Clark	U.S. FWS
Bret Wolfe	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will begin Bldg 418 officers' quarters for soil treatment and hauling to the R2.
Iniki is continuing paint tasks at Bldg 4203 Bravo barracks.

0900 – NWDE utility crew and sandbag gathering is occurring at Bldg 4208. The phone, fiber optic and electrical is verified to depth of foil warning tape and pvc duct relative to painted locate markings by DBSI. An access path for the skidsteer is cleared of petrel birds so pallets can be mobilized in and out to move the sandbags effectively.

1000 – Officers' Quarters 418 plots are being treated with the Maectite, amended with fire hydrant water and mixed to a uniform consistency to allow the stabilization of the LBP in coral to occur. The mini excavator is used for 100% of the excavation work. Hauling to the R2 Cell 2 with A30 Volvo trucks effectively transfers the treated soil to the final destination.
Iniki painting crew is on 4203 Bravo. LeadStop elastomeric coating continues to be applied using both airless sprayer and hand roller methods. Rolling is primarily down low and in the porch entry ways to achieve the final coat in the short wall areas.

1030 – The Kahana arrival brings in container shipment supplies to the NAF staging area. Three NDWE containers arrive with six Maectite totes, UP40 shear attachment, spare parts, acetylene and oxygen cylinders, LeadStop paint, steel pipe flanges and misc items.

1100 – Meeting at the former Midway Fuel Farm S28, S30 AST tanks. Attending are M. Amann, D. Clark, B. Wolfe of the U.S. FWS, E. White, D. Leibelt, S. Wakefield NWDE.
Onsite review of the property features relative to the approved Remedial Action Work Plan for DU8. Specify the decommission tasks of tanks S28, S30, 407, 406, 404 and associated steel piping, valves and flanges. Formerly conveying JP5 from the fuel pier rack in a southwest direction into the prior berm area manifold and onto respective tanks, the piping is addressed as to the location for disconnecting the flanges.
Piping with indications of present residual liquids and suspect liquid volumes are discussed. The piping is expected to be primarily empty from prior abandonment in place when the fuel farm was retired years ago. A good assessment or documentation is not currently available as to how the pipes were drained and cleaned once pulled out of service. With volumes of residual liquids in the piping not defined and limited resources on island to handle long term storage of such liquids if present, the group is tasked with firming up total capacity empty barrels that can be available prior to checking pipe contents. The prospect today is four to seven 55 gallon drums are on island and verification of this is pending.
Points noted for site access include ground burrowing Bonin Petrels that will need to be cleared and transporting nonnative plants and seeds from the berm area to other parts of the island. An example is purple nut sedge, a short grass that is managed on the island using herbicides to control expanding growth. U.S. FWS indicates the tank farm area will be sprayed as required to limit the purple nut sedge from thriving as demo equipment is moved in and out of the work zone.
Topic of large AST demolition and expected concrete footing for the 100' diameter tank brings up the historical fuel release and possible impact it may have on concrete under the talks. Awareness and field

oversight will document conditions of demo debris as it is processed. Appropriate sorting methods and stockpiling or use of the materials will occur once the fuel farm task is underway.

1200 – Lunch.

1400 – Iniki is up high at the northwest corner of Bravo barracks. This is the first coat getting close to complete for the long northwestern wall. North and south short wall ends have a second LeadStop coat applied and the eastern long wall is nearing the 50% mark for coverage.
The Bravo foundation footings are being pulled back and prepped for paint. The lower portion is rolled to provide adequate elastomeric paint to complete the abatement task work in each section.

1450 – The charter flight departs Midway and Darin Leibelt is off island having completed field task work for PM activities.
NWDE crew for birds and utility locates are at the Midway House Bldg 414. Sandbags are moved off the shade cloth and preparations for upcoming site work goes forward.

1730 – End of day.

Photographs:

Photo 01: Bldg 4203 Bravo- View southeast. LeadStop paint applied to southwest long wall.

Photo 02: Bldg 4203 Bravo. Foundation detail at soil intersect once raked back and rolled.

Photo 03: Bldg 418 – View north. Excavation of treated soil headed to the R2.

Photo 04: Bldg 418 (center) - View west.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/21/15	129.5	0	0	0	0	463.5	10	177	566
Total to Date	413.5 soil	40 walls	0 soil	10 walls	0 soil		33 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407
Correction - 9/18/15 Maectite calc yardage hauled is 156 cuyd
9/19/15 Maectite clac yardage hauled is 86 cuyd
Total to Date to R2 is correct for each day at 303 cuyd and 389 cuyd respectively.

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/21/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/21/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/21/15	0	0	0
Total to date- 0 loads			

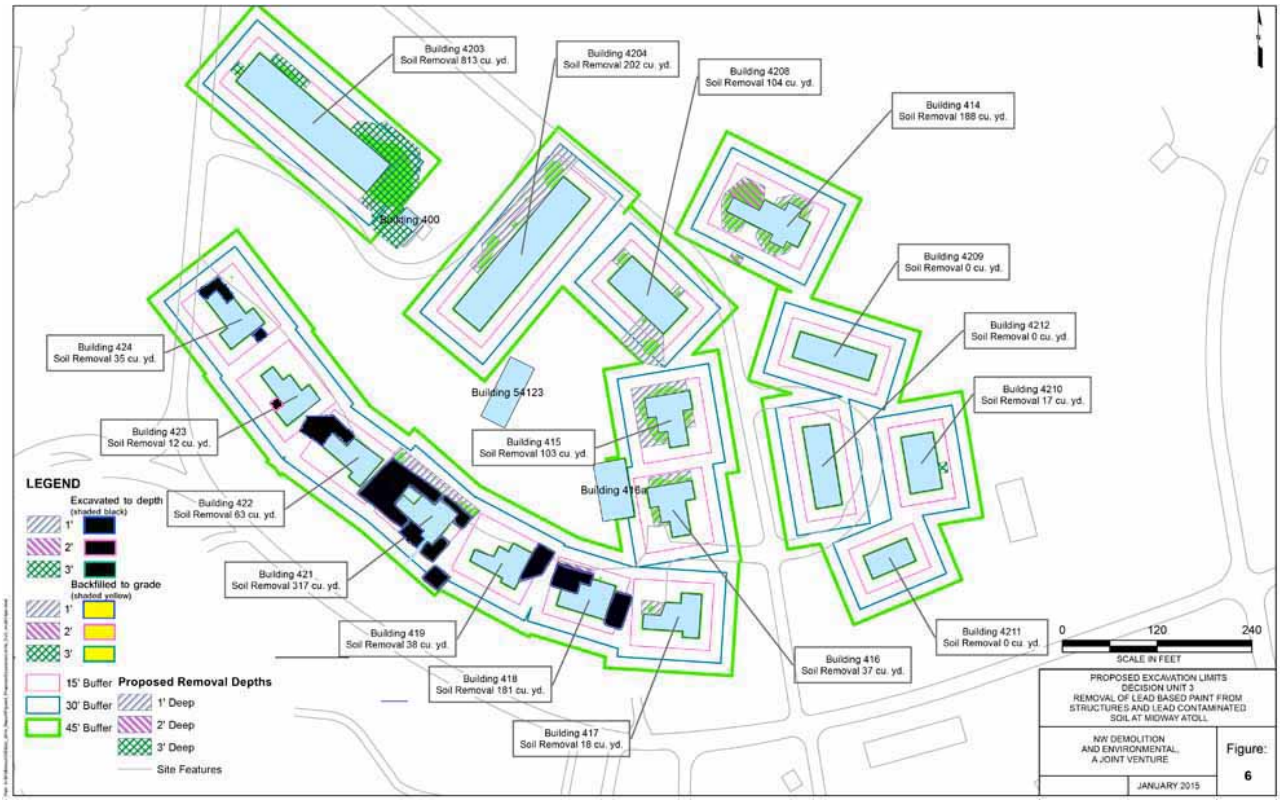
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

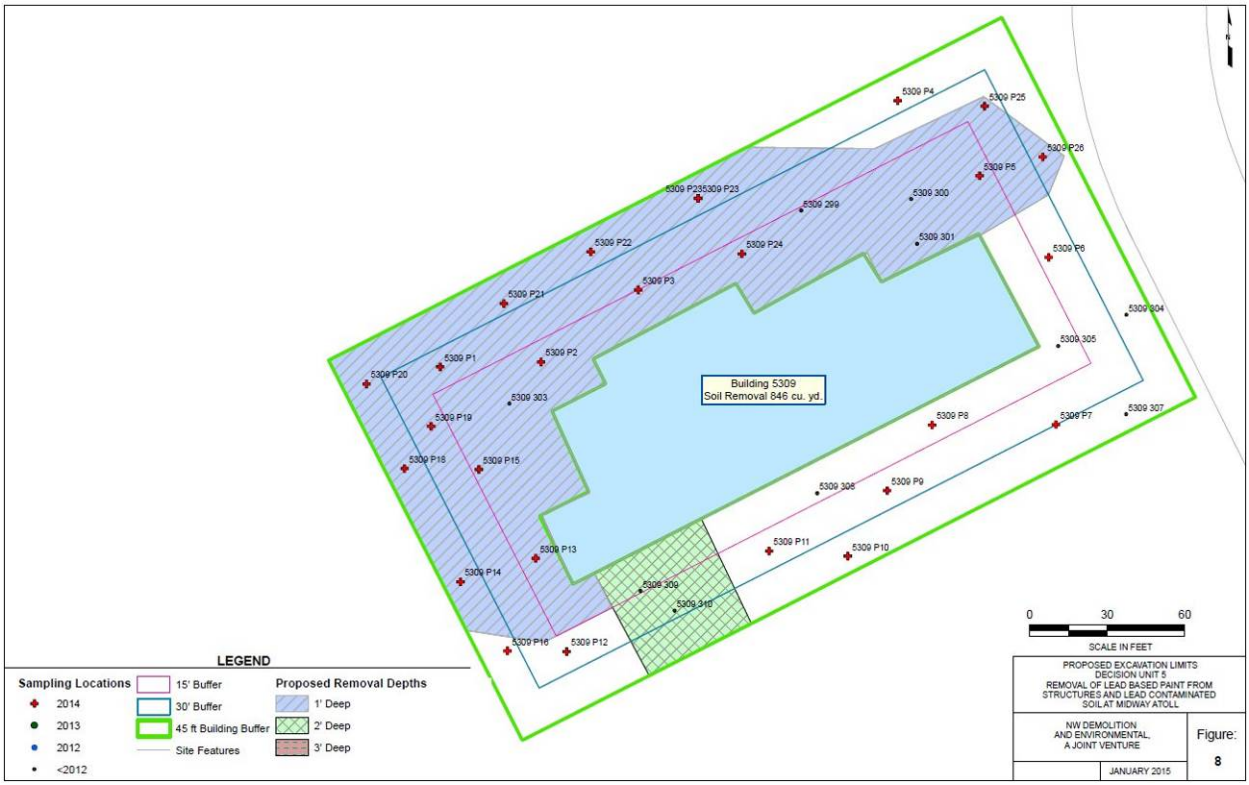
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/21/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, September 22, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 9 mph, Temperature ~87F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	10
Garrick Arakaki	Iniki Laborer	8
Evan Esposito	Iniki Laborer	10
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will begin Bldg 417 officers' quarters for soil treatment. Petrel patrol goes forward to check the site work area and access for moving in heavy equipment.
Iniki is continuing paint tasks at Bldg 4203 Bravo barracks.

0800 – NWDE has applied Maectite to the plot at Bldg 417, amended with hydrant water and mixed to a uniform consistency per the manufacturer Sevenson's stabilization plan. Careful mixing and excavation occur at the targeted one foot depth due to known and unknown utilities present near the excavation.
Iniki is running the LeadStop paint through the sprayer to continue coverage of the Bravo barracks Bldg 4203. These tasks are rounding up the second coat for the adequate encapsulating mil thickness of elastomeric paint.

0900 – At Bldg 416 the shadecloth is picked up and area prepared for Maectite treatment of the soil. The southwest and north plot areas are staked out for appropriate application of Maectite at the prescribed rate of .75 gallons per cubic yard.
Moving the layout tasks to Bldg 415, the locate markings are touched up and the plots staked.
The NWDE utility crew are ahead of the excavation crew to pick up sandbags and dig any major bird areas associated with the in place shade cloth. Below grade electrical power, fiber optic and TV lines continue to be a task that is better well defined for safe working conditions rather than having a generalized and uncertain location. Not all utilities have adequate foil marker tape above the lines as a pre warning to encountering the conductors. Potholing by hand has proven to be useful for the project work.

1100 – Plot layout of Bldg 4208. While the excavation crew applies reagent, mixing and hauling work to Bldg 416, the next one or two buildings are staked and painted out. The process has continued throughout the Officer's housing to maintain a fluid work pace at each structure, moving from one to the next as soon as needed.

1200 – Lunch.

1300 – The logistics of the NWDE excavation crew moves from completing Bldg 416 dig to starting at Bldg 4203. The primary reason is to access 4203 southwest area by staying on Bldg 415 shade cloth that is petrel free. By working from the back to the front of excavation plot areas, the machines can have good access to the plots and housekeeping tasks adhere to for keeping the dig areas organized.
Iniki has nearly all the LeadStop applied to Bldg 4203 Bravo. On walls that are complete, the sandbags and 6mil poly sheeting are being picked up. Poly ground cover has been swept up of lead paint chips. Sheeting is then wrapped and sealed to contain any LBP debris for proper disposal.

1700 – NWDE at the south corner of Bldg 4208 has treated and hauled out the plot to R2 Cell 2.

1730 – End of day.

Photographs:

Photo 01: Bldg 4203 Bravo- View southwest. LeadStop applied and poly sheeting being removed.

Photo 02: Bldg 4208. View northwest. Plots treated and excavated to target grade.

Photo 03: Bldg 4208 – View southeast. Treated soil being loaded out to the R2 Cell 2.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/21/15	129.5	0	0	0	0	463.5	10	177	566
9/22/15	72	0	0	0	0	535.5	8	98.75	665
Total to Date	485.5 soil	40 walls	0 soil	10 walls	0 soil		41 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
Total to date- 0 loads			

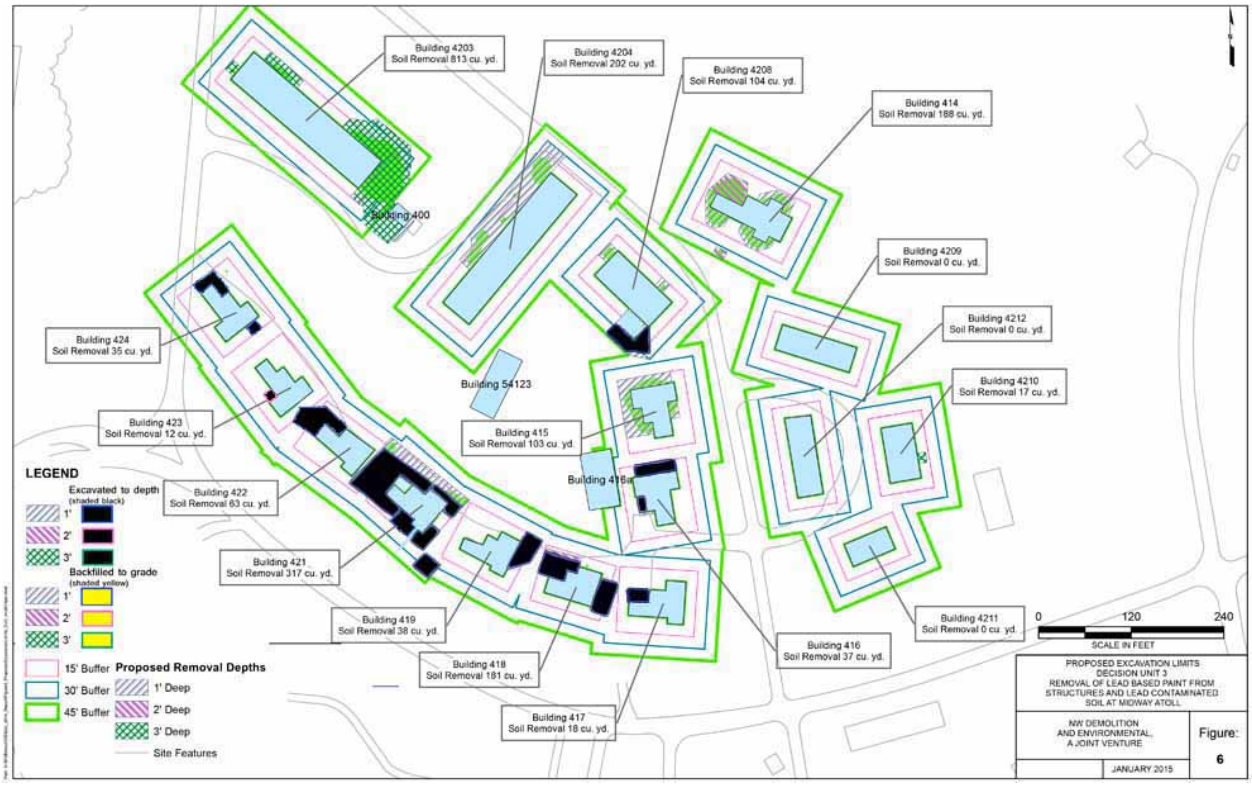
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

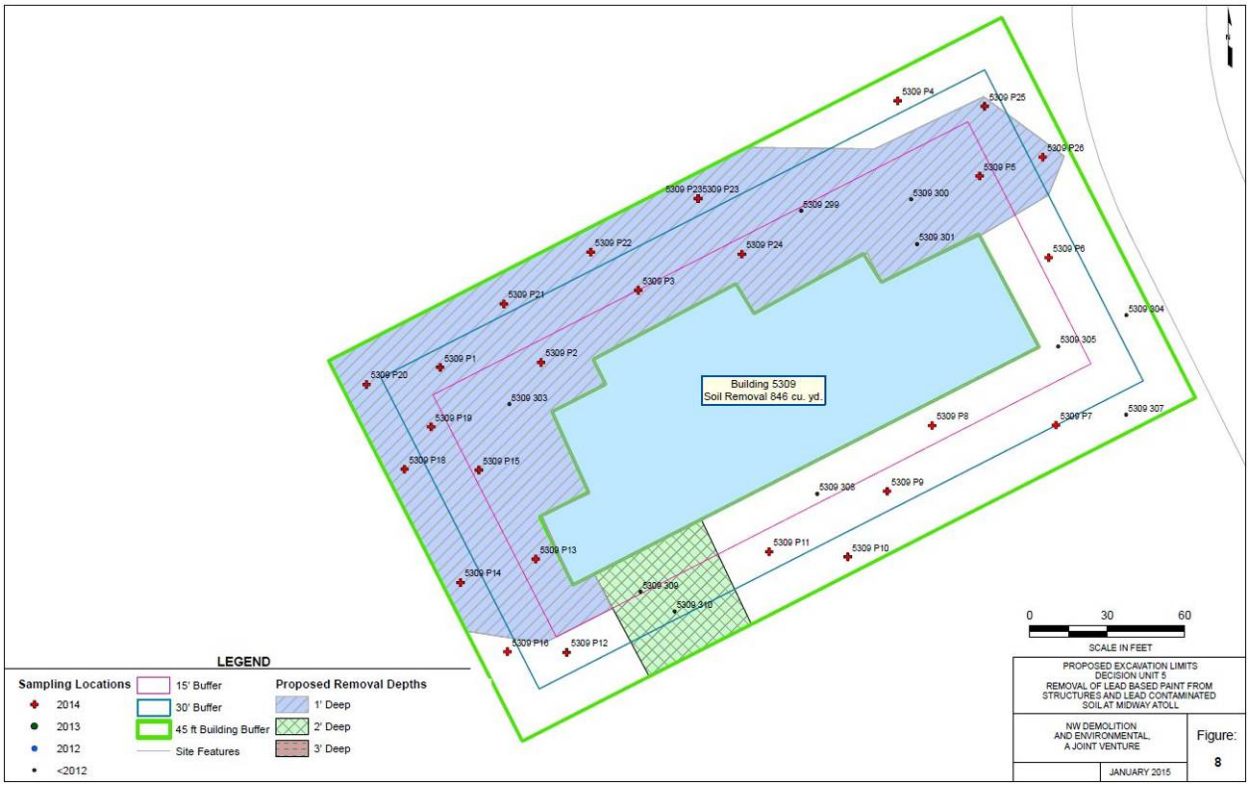
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/21/15	0	0	0	0	0	0
9/22/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Wednesday, September 23, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 7 mph, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Dale Christianson	NWDE Mechanic	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	5
Garrick Arakaki	Iniki Laborer	8
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	10
Michael DeCarlo	Iniki Laborer	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE morning focus will be Bldg 415 to pull shade cloth, check petrel burrows and begin soil treatment. Iniki work site Bldg 4203 stays on track with post painting clean up, touch up and breaking down the exclusion zone.

0830 – At the north side of Bldg 415 the fiber optic and TV are parallel to the one foot excavation and inside the plot staking. Prior NWDE digging this week has identified the areas known utilities. Task work will be performed carefully to not damage the onsite lines.
Maectite is calculated and applied to the sub plots areas at the target percent mass addition rate of .75 gallons per cubic yard. The Cat mini excavator uses a 48" wide flat edged bucket to fold and mix the reagent as fire hydrant water is added to mix coral sand to a uniform consistency.
Treated materials are loaded into the A30 Volvo and hauled to R2 Cell 2.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1045 – Iniki crew is picking up the 6mil poly surrounding Bravo barracks. The recent painted exterior walls are inspected for small paint lifts and touched up as required. The ground is checked for debris and painting materials, picked up and properly stored at the NAF staging area waste containers pending proper disposal.

1200 – Lunch.

1245 – Iniki is mobilizing the JLG manlift from Bravo out to Bldg 5309 Transmitter. The exterior walls have been treated with Maectite recently and will be lead scraped and debris collected as LBP waste.

1530 – The NWDE and Iniki crew are moving out sandbags from Bravo. The majority of the bags have been stacked on pallets and are staged nearby using the Bobcat with forks. This prepares the area for upcoming soil treatment work. The known live below grade utility is hand dug to verify placement for a fiber optic line that runs to a pvc pull box mounted on the Bravo exterior wall. Though the barracks is abandon, the fiber line runs though the southeast corner of the slated 3' excavation and a pull box mounted to the wall.
NWDE is accessing the east plot of Bldg 415. A small area at the HVAC heat pump is cleared of petrels in the limited burrows. Soil density and grass cover seems to have limited the birds nesting in the front lawns. A path is marked with yellow ribbon and keeps heavy equipment inside of the cleared area when backing into the work zone. Maectite is applied, mixed with hydrant water and then loaded into the haul truck destined to the R2 Cell 2.
Multi Incremental Sampling (MIS) preparation and layout for 417.418.419 MIS area begins. Initial layout finishes out the day.

1730 – End of day.

Photographs:

Photo 01: Bldg 415 - View south. Treated soil is cut to grade and loaded into the A30 Volvo truck

Photo 02: Bldg 415. View northwest. Patio area sub plots.

Photo 03: Bldg 415 – View west. Access route cleared of petrels to treat and haul materials.

Photo 04: Bldg 4208 – View west. Prep for soil treatment.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/21/15	129.5	0	0	0	0	463.5	10	177	566
9/22/15	72	0	0	0	0	535.5	8	98.75	665
9/23/15	68	0	0	0	0	603.5	6	93	758
Total to Date	553.5 soil	40 walls	0 soil	10 walls	0 soil		47 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
Total to date- 0 loads			

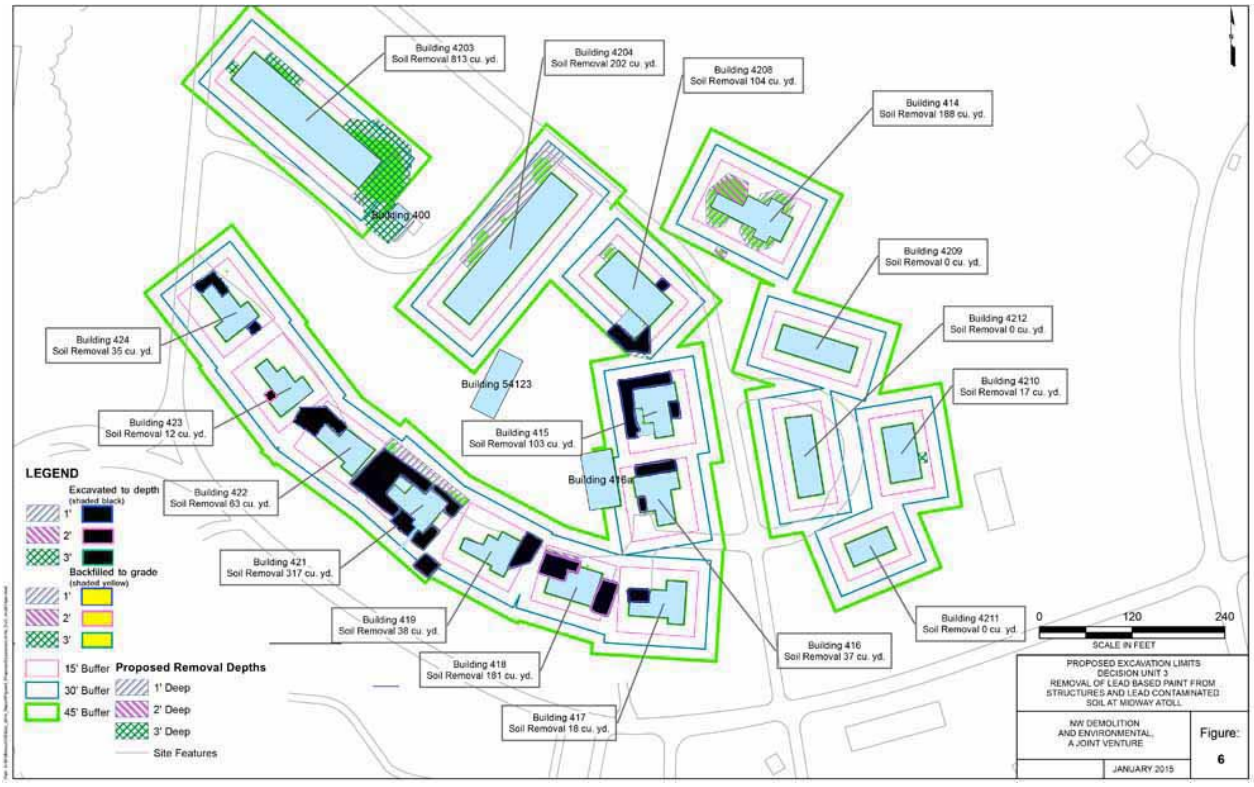
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

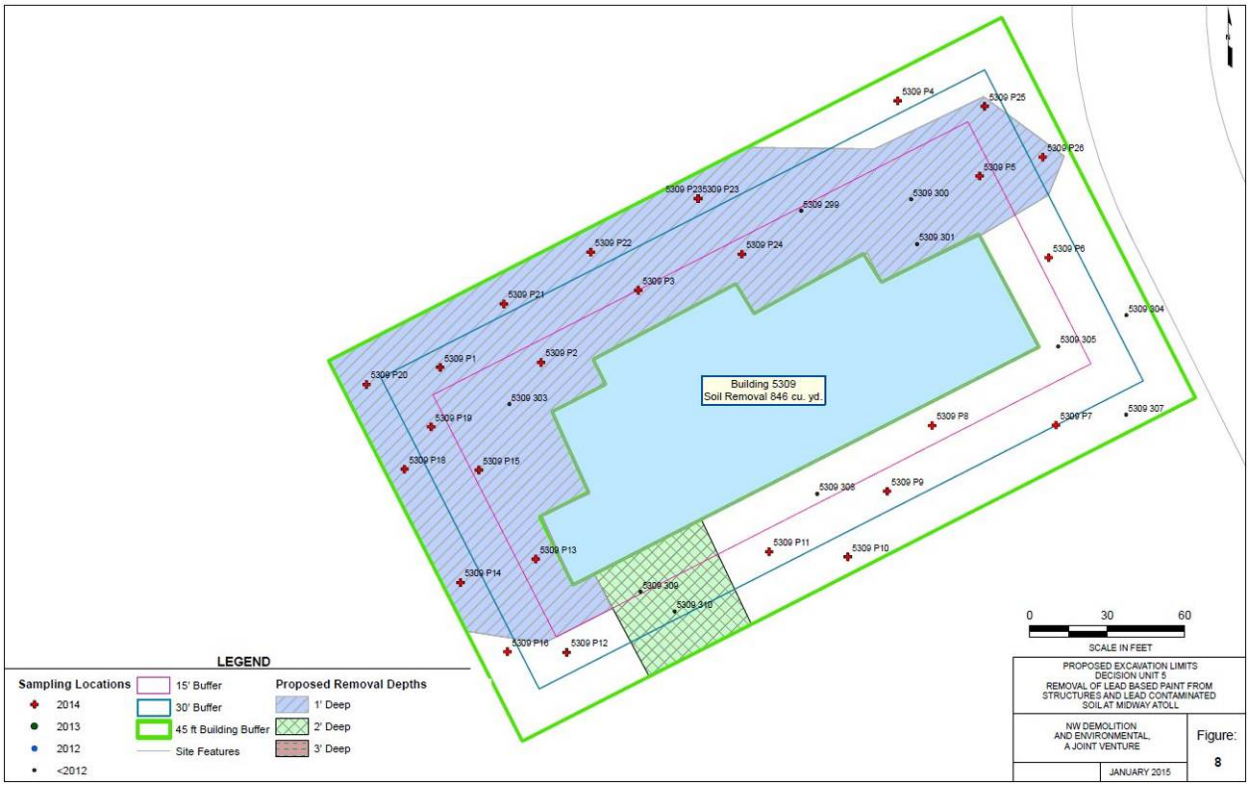
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/21/15	0	0	0	0	0	0
9/22/15	0	0	0	0	0	0
9/23/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Thursday, September 24, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 9 mph, Temperature ~84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	9
Eric Alcosiba	Iniki Laborer	9
Garrick Arakaki	Iniki Laborer	0
Evan Esposito	Iniki Laborer	9
Shelby Lewis	Iniki Laborer	9
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	9

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Charles Mathwig	Fuel Inspector
Dana Courtemanche	DBSI POL

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE morning focus will be Bldg 4208 to pull shade cloth, check petrel burrows and soil treatment.
Iniki paint crew will be on Bldg 5309 Transmitter for the first application of LeadStop paint.

0800 – As NWDE accesses and treats the last plot for Bldg 4208, the Midway House Bldg 414 is being marked out and irregular plots calculated for Maectite application. To allow for extra layout time at 414 NWDE will dig out the northeast corner of Charlie barracks Bldg 4204. This corner between the road and sidewalk is crossed by a handful of utilities including a potable water main, main 2400vac power, gray water drain and smaller water lines. Given all the utilities obstacles careful excavation and hand digging work to expose the lines and meet the target grade depth of 1' bgs.
The 4" water main is HDPE and top of pipe is approximately 8" bgs. The pipe is at the eastern boundary of the plot and parallels the short northeast edge. Care is taken to not nick or unsettle the bedded pipe and retain stability since this is a primary water service.

0900 – Onsite meeting at the Fuel Farm with M. Amann U.S.FWS, Charles Mathwig fuel inspector, E. White & S. Wakefield NWDE. Mr. Mathwig is on island for routine inspection of the active DBSI fuel farm at the Sea Plane Hanger. He has been at Midway in prior years when the S28, S30, 407, 406, 404 ASTs were in operation. A bit of back history knowledge is shared having worked in and around the tanks before. It's noted that piping as-builts had not been available in the past regarding low drain point elevations, vaults or sumps. While serving in the same industry, his specialty is not AST demolition or having documented details of the Midway Fuel Farm.
DBSI Dana Courtemanche has noted that D1 and D2 tanks are serviceable and that D2 will be in use for an island task. D1 can be available as a last resort storage tank if the fuel farm piping liquids exceed the available 55-gallon drums intended to use during pre-demo task work. Capacity needs verified since D1 currently has some liquid in it. Capacity will be several barrels worth and this volume detail will be firmed up.

1000 – At Midway House the TV cable northeast of the building is at grade and intersects the proposed plot area. DBSI crew is moving the line to route outside of the work area.
Continue layout and Maectite figures for Bldg 414.
The Charlie barracks utility riddled plot is moved onto the larger Charlie plot for upcoming treatment. The work has been slow due to the multi lines and angles. It is completed with no damaged to existing live lines.
Iniki work at the Transmitter Bldg 5309 is moving along well. The LeadStop is sprayed to cover with the first coating of white elastomeric paint. Lower sections are accomplished first, working around the building's exterior.

1200 – Lunch.

1245 – NWDE moves into Bldg 414 and applies Maectite to the single yard plot. The reagent is evenly applied, amended with fire hydrant water and adequately mixed using the mini excavator bucket. Treated soil is hauled to the R2 Cell 2.

1530 – The front plots of Bldg 414 are being treated and excavated beginning at the carport and working west. Fiber optic, water and power runs are carefully identified and uncovered with no damage along the foundation.

1600 – Iniki has approximately ¼ of the walls' square footage painted by this afternoon. Paint application will continue tomorrow to get the first coating applied.

1730 – End of day.

Photographs:

Photo 01: Percentage of the Bravo sand bags picked up securing the shade cloth last season.

Photo 02: Bldg 415. View west. Midway House treatment and excavation.

Photo 03: Bldg 5309 Transmitter – View southeast. White LeadStop paint application progress.

Photo 04: Bldg 5309 Transmitter – View southwest. Lower sections first coat of LeadStop paint.

Photo 05: Bldg 414 Midway House – View east. Maectite application to LBP impacted soil.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/21/15	129.5	0	0	0	0	463.5	10	177	566
9/22/15	72	0	0	0	0	535.5	8	98.75	665
9/23/15	68	0	0	0	0	603.5	6	93	758
9/24/15	29	0	0	0	0	632.5	3	39.75	798
Total to Date	582.5 soil	40 walls	0 soil	10 walls	0 soil		50 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
Total to date- 0 loads			

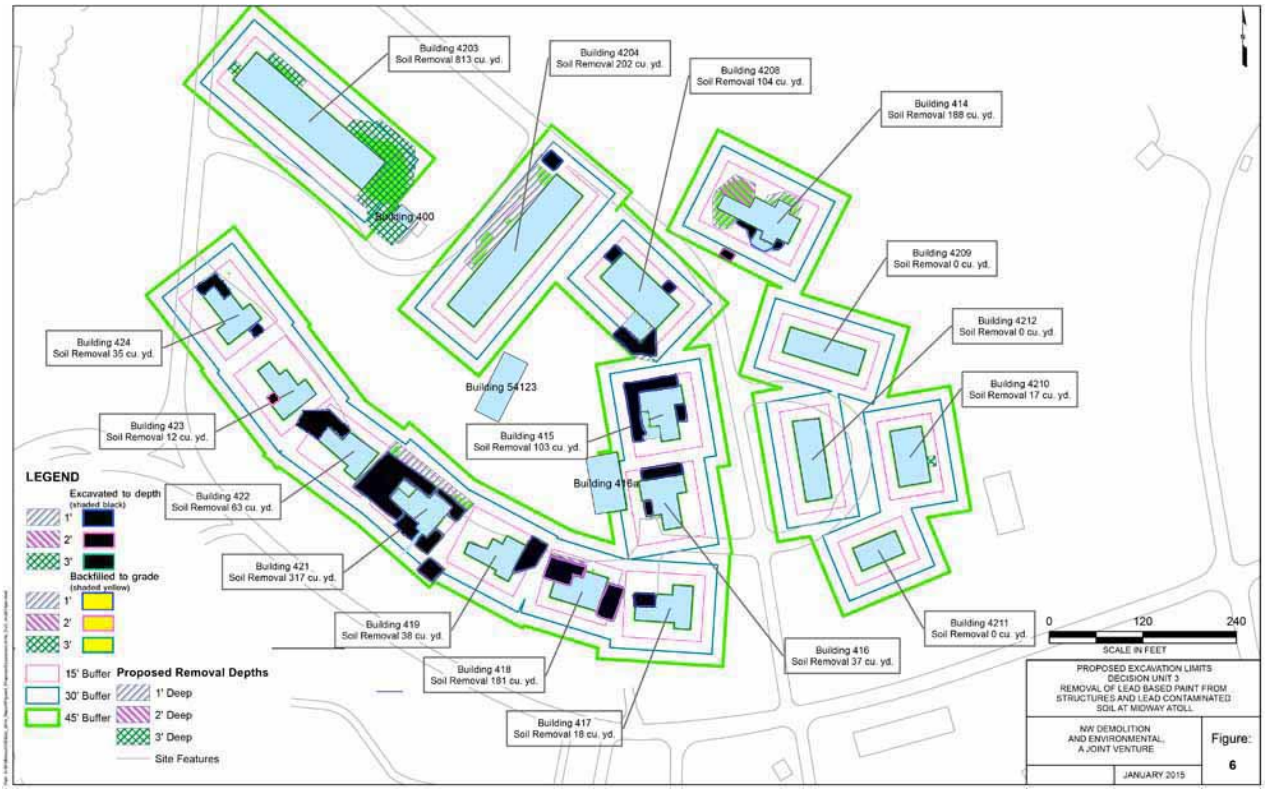
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

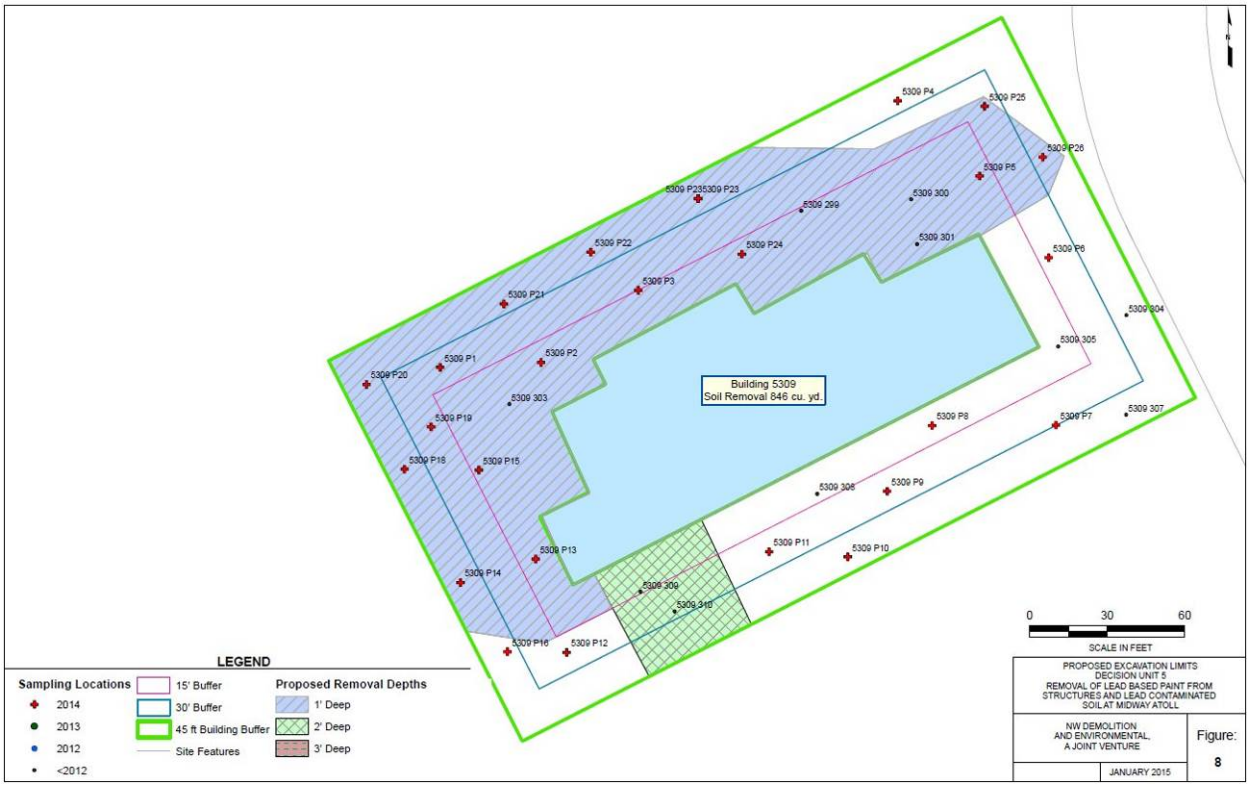
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/21/15	0	0	0	0	0	0
9/22/15	0	0	0	0	0	0
9/23/15	0	0	0	0	0	0
9/24/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Friday, September 25, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 12 mph, Temperature ~87F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	9
Eric Alcosiba	Iniki Laborer	8
Garrick Arakaki	Iniki Laborer	0
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	9
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Eric Moore	DBSI
Ricardo Abelleira	DBSI Safety Manager

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	103 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE morning focus will be Bldg 414 for soil treatment.
Iniki paint crew will be at Bldg 5309 Transmitter for continuing LeadStop paint.

0800 – NWDE is treating with Maectite and excavating the south plots of Midway House. The excavation plots at this area are modified to square out and connect the two irregular plots, effectively working the length of the foundation.

1000 – At the south side of Bldg 414 Midway House, the top port of an unmarked horizontal UST is discovered. This ends up being a steel tank approximately 4' dia x 6.5' long. The liquids in the tank are at ~90% capacity and appear to be diesel and water. Since the top port was not sealed it is suspect that rain water over the years has entered the tank.
Notify M.Amann U.S. FWS, Eric Moore and Ricardo Abelleira DBSI. After viewing the tank orientation and piping it is determined this would have been a former heating fuel tank for cooking, hot water, etc. The plan of action is to leave in place until next week when DBSI can use a vac truck to empty the liquid. NWDE will then relieve the tank sides and lift it out for DBSI to properly dispose of the UST. Inspection for the lower section of the tank and soil will be done for visual leaking or hydrocarbon impacted sand.

1100 – At the northwest excavation area of Bldg 414, a TV cable is running midpoint through the 2' plot. Rather than work around this, the cable is hand dug up, disconnected from the house and the laid back out of the way. Two other lines and the green utility pedestal are also moved and will allow unrestricted access to the work plot.
Iniki is spraying LeadStop elastomeric paint onto the exterior walls of Bldg 5309 Transmitter. The JLG manlift allows safe access to the elevated walls and eves.

1200 – Lunch.

1245 – At the Midway House, the 2' depth plot is treated with Maectite, folded with the mini excavator and amended with hydrant water to provide a uniform mixing of the coral sand. Grid stakes keep the excavation square footage precise and elevation depth is closely advised to make the 2' target. An unmarked 3" steel pipe is identified and worked around. Treated soils are loaded into the A30 Volvos and hauled to the R2 Cell 2.

1500 – The Transmitter building paint task by Iniki is progressing. Sections are receiving the second coat to provide a sufficient paint mil thickness to encapsulate the existing tan LBP coating. The manlift crew works up high and the ground crew keeps the spray hopper filled, hoses tended to and constant pick up of LBP debris on the poly ground cover.

1730 – End of day.

Photographs:

Photo 01: R2 Cell 2. View west. Morning progress of DU3 treated soil placed atop the wood layer.

Photo 02: Bldg 414 Midway House. View northwest. South wall excavation work.

Photo 03: Bldg 414. View east. Midway House heating fuel UST tank discovered.

Photo 04: Bldg 5309 Transmitter – View northwest. White LeadStop paint application progress.

Photo 05: Bldg 414 Midway House – View southeast. The treated 2' plot is excavated.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/21/15	129.5	0	0	0	0	463.5	10	177	566
9/22/15	72	0	0	0	0	535.5	8	98.75	665
9/23/15	68	0	0	0	0	603.5	6	93	758
9/24/15	29	0	0	0	0	632.5	3	39.75	798
9/25/15	59.5	0	0	0	0	692	6	81	879
Total to Date	642 soil	40 walls	0 soil	10 walls	0 soil		56 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
9/25/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
9/25/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
9/25/15	0	0	0
Total to date- 0 loads			

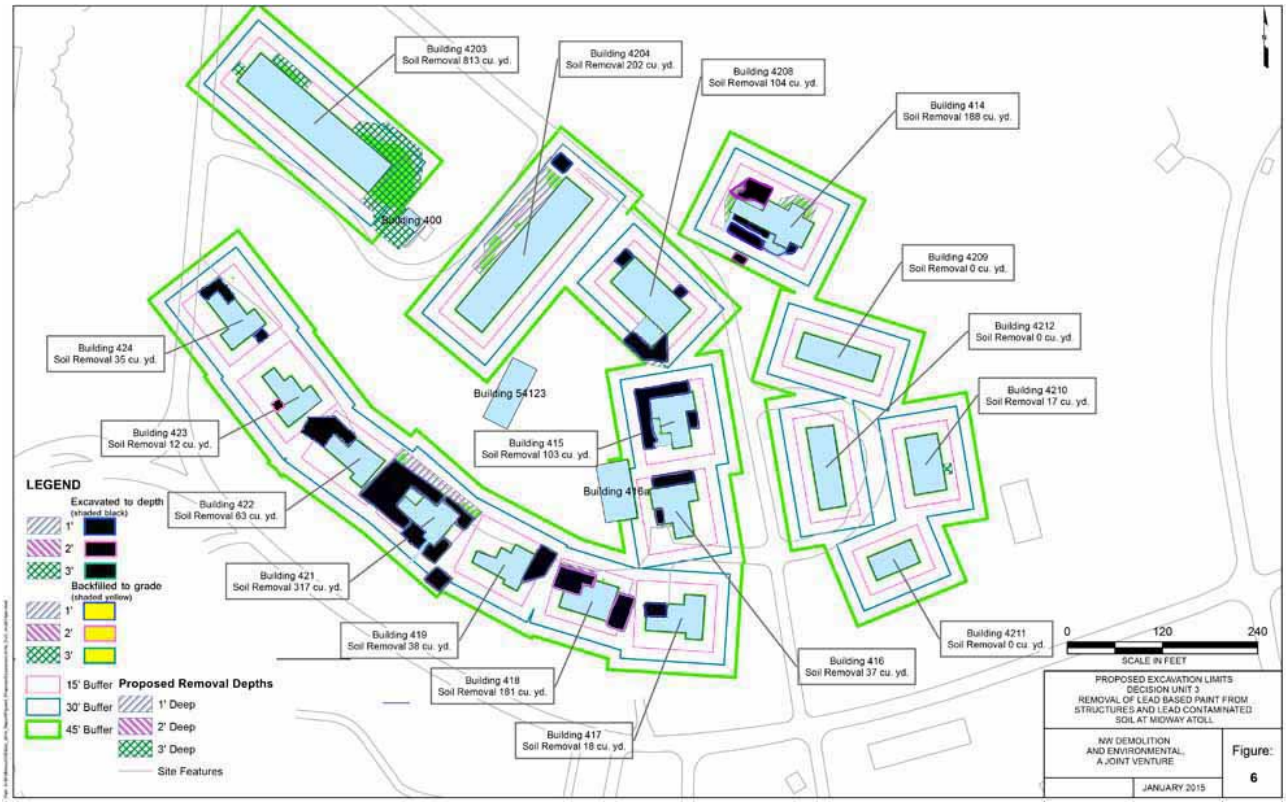
Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

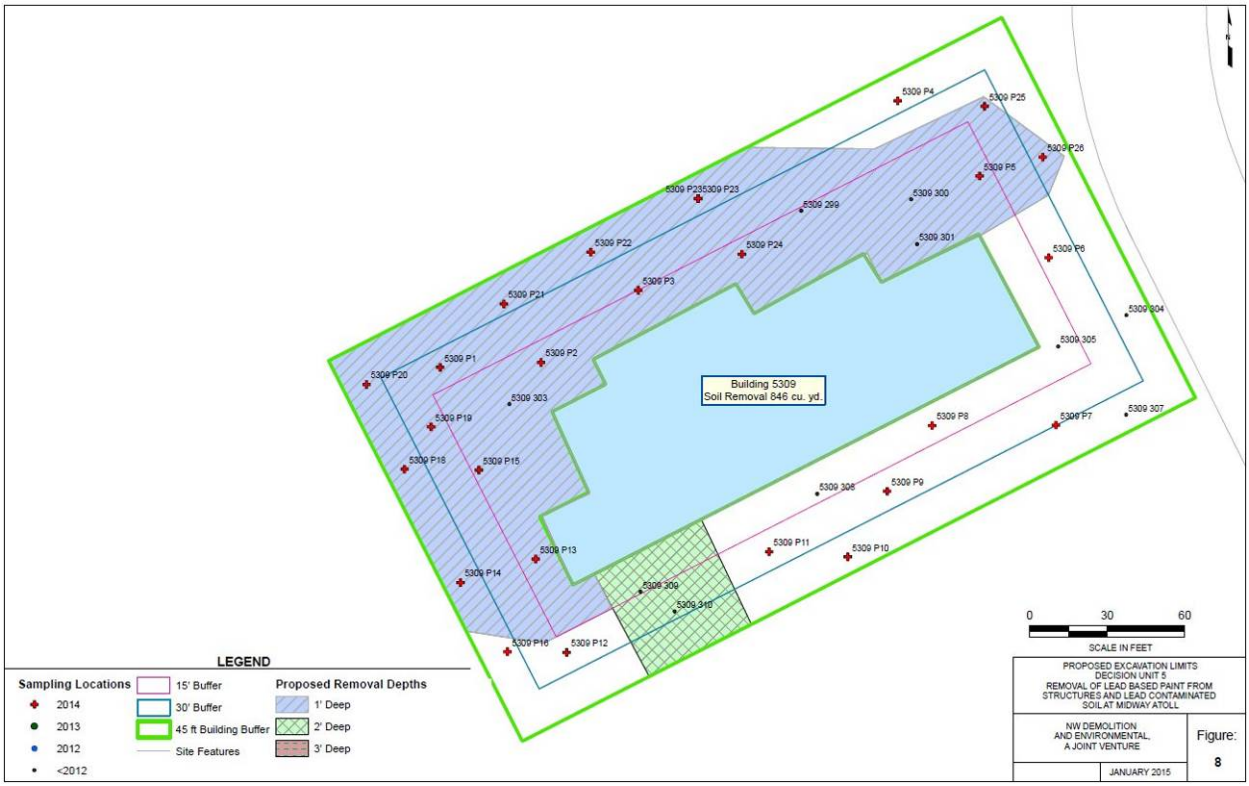
Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/21/15	0	0	0	0	0	0
9/22/15	0	0	0	0	0	0
9/23/15	0	0	0	0	0	0
9/24/15	0	0	0	0	0	0
9/25/15	0	0	0	0	0	0

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, September 26, 2015
Prepared by: Scott Wakefield

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

Weather: Sunny, wind 12 mph, Temperature ~86F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	8
Ruth Inmon	NWDE Operator	8
Alan Phillips	NWDE Operator	8
Jevon Stone	NWDE Operator	8
Jose Ordaz	NWDE Operator	8
Jonathan Paul	NWDE Laborer	8
Carlos Sanchez	NWDE Laborer	8
Gary Lewis	Iniki Supervisor	5
Eric Alcosiba	Iniki Laborer	0
Evan Esposito	Iniki Laborer	0
Shelby Lewis	Iniki Laborer	5
Vincent Torrez	Iniki Laborer	0
Michael DeCarlo	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	145 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE continues Bldg 414 treatment and soil excavation. An additional NWDE work crew intended to split off to begin DU8 Tank Farm demo of the S28 tank today. Dan Clark U.S. FWS has asked to momentarily postpone fuel tank demolition pending communication and notification from his Midway office to applicable off island people. Tank shearing tasks are on currently on hold. The 290 Excavator has been fitted with the UP40 shear earlier this week and is ready to work.
Iniki remains on task at Bldg 5309 Transmitter for painting.

0800 – NWDE is finishing out the west end of the Midway House area, soon to move to the north long wall side. A number of utilities have been encountered that are abandon in place and unmarked.
Iniki's manlift is accessing the southwest corner of the Transmitter building to give a final wrap of LeadStop paint sprayed onto the wall. This will cover all the original tan paint. Second coat and touchup work remains in select areas.
Confirmation sampling of Fig 6 excavation limits is underway. Collection points are placed, documented and collected. These non-time sensitive coral samples will be transported to Test America at the end of the 2015 season for analysis.

1000 – NWDE is applying Maectite at the manufacturer's prescribed rate of .75 gallons per cubic yard to the north plot at Bldg 414. Aided by applying hydrant water and the mini excavator bucket, soils are mixed to a uniform wet consistency to evenly distribute coral, LBP and reagent. Treated soils are loaded and transported with the A30 Volvo trucks to R2 Cell 2.

1200 – Lunch.

1245 – Confirmation sampling continues at DU3. Bldg 421 MIS points are being placed and documented.

1300 – NWDE is wrapping up the treatment and excavation at Midway House. Tasks remaining include removal of the discovered UST and future clean backfill of the areas.
Mobilize equipment to Bldg 4204 Charlie barracks. Bike racks and loose items are moved out of the work zone.

1530 – End of day.

Photographs:

Photo 01: Bldg 414 Midway House. View southwest of excavated area.

Photo 02: Bldg 414 Midway House. View northwest. North wall excavation work.

Photo 03: Bldg 414 Midway House. View south. East wall excavation work.

Photo 04: Bldg 414 Midway House. View east. West excavation patio and unmarked utility.

Table 1. Maectite and Treated Soil Total Estimates

		Maectite Totals					Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/21/15	129.5	0	0	0	0	463.5	10	177	566
9/22/15	72	0	0	0	0	535.5	8	98.75	665
9/23/15	68	0	0	0	0	603.5	6	93	758
9/24/15	29	0	0	0	0	632.5	3	39.75	798
9/25/15	59.5	0	0	0	0	692	6	81	879
9/26/15	55	0	0	0	0	747	6	75.5	955
Total to Date	697 soil	40 walls	0 soil	10 walls	0 soil		62 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
9/25/15	0	0	0
9/26/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
9/25/15	0	0	0
9/26/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/21/15	0	0	0
9/22/15	0	0	0
9/23/15	0	0	0
9/24/15	0	0	0
9/25/15	0	0	0
9/26/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/21/15	0	0	0	0	0	0
9/22/15	0	0	0	0	0	0
9/23/15	0	0	0	0	0	0
9/24/15	0	0	0	0	0	0
9/25/15	0	0	0	0	0	0
9/26/15	0	0	0	0	0	0

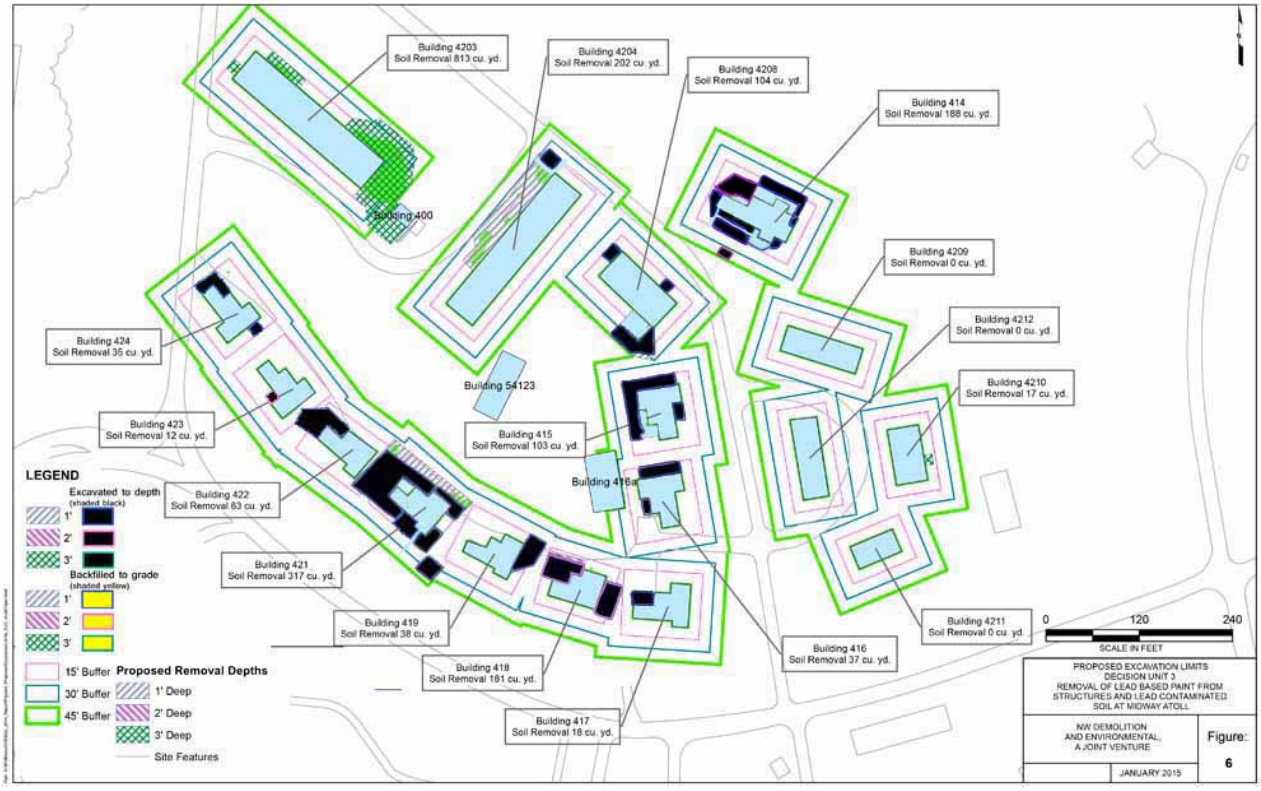
Table 4. Soil Sample Collection-

104 collection points / 11 Whirlpak samples collected today, 0 sample refused:

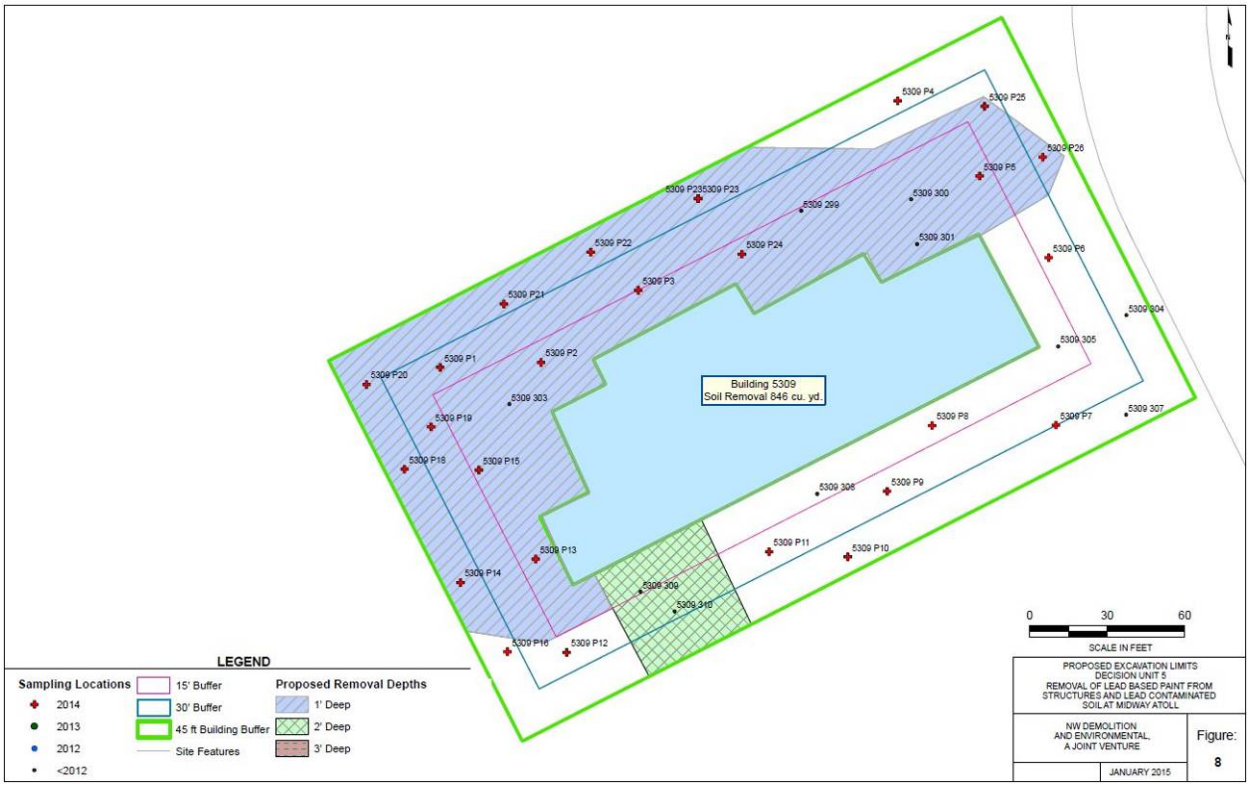
424P100 0-2”	424P101 0-2”	423P100 0-2”
424P100 0-2” DUP	424P101 0-2” DUP	423P1000-2” DUP
422P100 0-2”	423P100 0-2” DUP	-
419 MIS 0-2”	419 MIS 0-2” DUP	419 MIS 0-2” Triplicate

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, September 28, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 9 mph, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	8
Eric Alcosiba	Iniki Laborer	8
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	8
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE focus today is Bldg 4204 Charlie Barracks soil treatment and excavation.
DU8 Tank demolition task is still currently on hold pending U.S. FWS Dan Clark's request.
Iniki will be working at the Transmitter Bldg 5309 and the Bldg 5306 NAF end walls.

0830 – Bldg 4204 Charlie plots are marked and Maectite calculated for each subsection. Maectite is applied and mixed within the first northeast plot using the mini excavator and hydrant water. Once the soil has been properly treated with the reagent, the soils are loaded and hauled to the R2 Cell 2. The R2 grade is maintained using the Bobcat tracked skidsteer to push the truck load piles out to a suitable interim grade. This allows the Volvo access to enter and dump as needed.

Iniki paint crew at the Transmitter building are finishing up the second coat of LeadStop and touch up of the exterior walls. Detailing the walls provides a consistent and thorough coating for the paint to encapsulate the treated LBP surface.

A two person Iniki crew is at the NAF Hanger Bldg 5306. The short north and south end walls are sprayed with Maectite using the JLG manlift to access the tall sections. Treatment coverage is adequate to contact the old weathered LBP coating and stabilize the hazardous lead-based paint.

1015 – Confirmation sampling continues at Bldg 421. The Multi Incremental Sampling layout is collected and documented per the approved Removal Action Work Plan for the project.

1200 – Lunch.

1245 – NWDE is progressing well at Bldg 4204 near the midpoint of the barracks. Two A30 trucks are hauling and the water utility and fiber optic line are carefully worked across in the 1' target depth plots.

1300 – Iniki group at the Transmitter building are beginning to pick up ground cover 6mil poly sheeting that is the work zone containment. Loose LBP debris is swept up, collected and bagged as LBP waste. Poly sheeting is also being rolled up, sealed and destined to the NAF staging area waste containers for future proper disposal.

1445 – To Bldg 4203 Bravo barracks to begin Fig 6 excavation limits and Maectite calculations. The large 3' target depth area at the south east end is staked out to prepare for soil treatment work. Shade cloth is being removed as a bird deterrent and utilities verified for the live fiber optic line that hangs a J-Box on the southeast corner of Bravo. Though Bldg 4203 is abandon, utilities still intersect the excavation area as the pvc conduits run across the island.

1530 – End of day.

Photographs:

Photo 01: Bldg 4204 Charlie Barracks. View south of Maectite mixing task.

Photo 02: Bldg 4204 Charlie Barracks. View northeast. Treated soil excavation.

Photo 03: Bldg 5306 NAF Hanger. View north. Maectite spray of concrete wall LPB.

Photo 04: R2 Cell 2. View east. Morning progress of treated soil placement from DU3.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/28/15	122	0	0	0	0	869	10	167	1122
Total to Date	819 soil	40 walls	0 soil	10 walls	0 soil		72 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/28/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/28/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/28/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/28/15	0	0	0	0	0	0

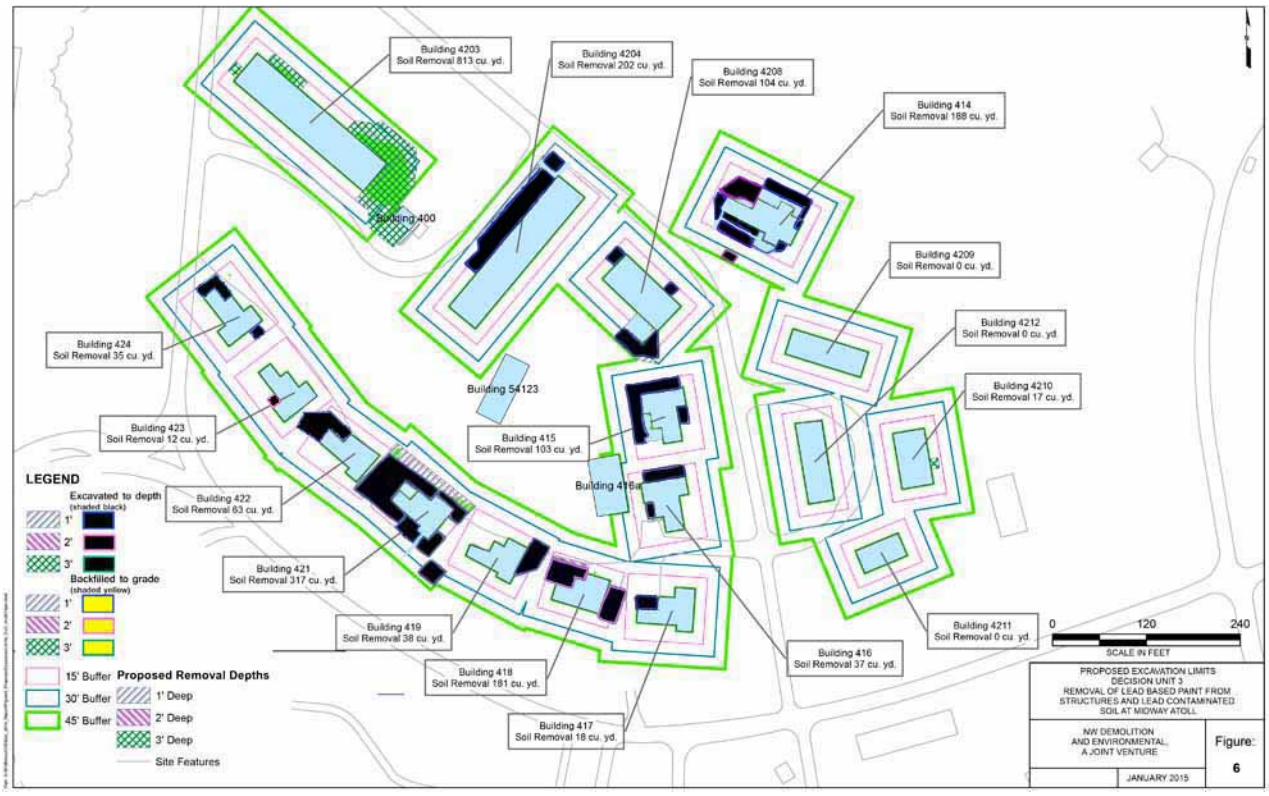
Table 4. Soil Sample Collection-

160 collection points / 5 Whirlpak samples collected today, 0 sample refused:

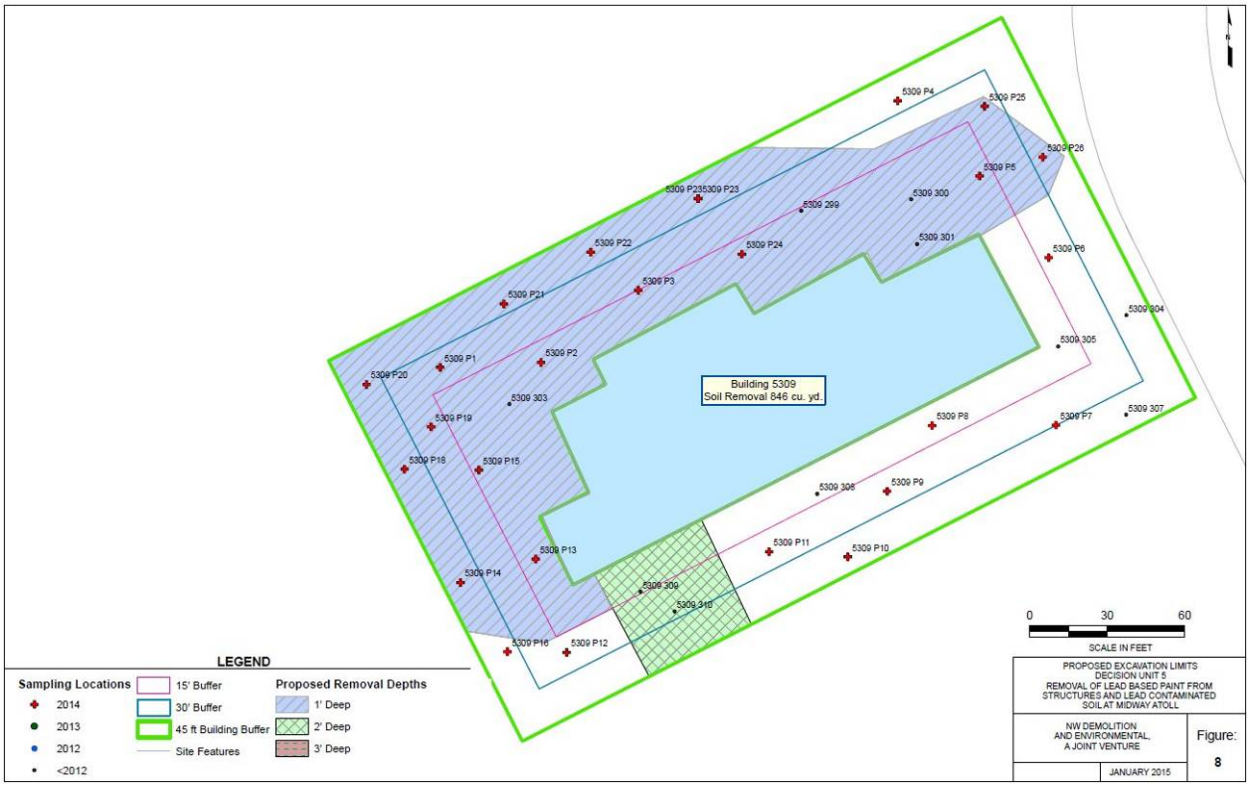
421 MIS 0-2”	421 MIS 0-2” DUP	421 MIS 0-2” Triplicate
415 MIS 0-2”	415 MIS 0-2” DUP	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Tuesday, September 29, 2015
Prepared by: Scott Wakefield

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: Sunny, wind 9 mph, Temperature ~84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	8
Eric Alcosiba	Iniki Laborer	8
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	8
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Eric Moore	DBSI
Kriangkrai Sriprasert	DBSI Facilities
Thawatchai Phosri	DBSI Water Plant
Dana Courtemanche	DBSI POL
Adoon Sripitak	DBSI POL

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE focus today is Bldg 4203 for soil treatment and excavation.
DU8 Tank demolition task is still currently on hold pending U.S. FWS Dan Clark's request.
Iniki will be working at the Transmitter Bldg 5309.

0830 – At Bldg 4203 Bravo Barracks the southeast end of the building is being worked at. The electrical service from Bldg 400 step down transformer to the Bravo mechanical room is requested by NWDE to be turned off. DBSI locks out the 208vac/3ph switch to cut power to the barracks. Other utilities are advised as being off.
The calculated cubic area is treated with Maectite at the target rate of .75 gallons per cubic yard in the staked plot. With a target depth of 3', the process will occur in 1.5' layers of Maectite, mixing and excavation to reach the Fig 6 limits. Each process is independent in that the first 1.5' is processed before working the last invert of the dig.

At the Transmitter Bldg 5309 Iniki continues to collect and double bag the work area poly ground cloth. Materials are sealed in 6mil poly bags and moved to the NAF staging area shipping containers for future approved disposal. The area around the foundation is inspected and any visible debris from work activities is picked up, bagged and staged with LBP waste.

0930 – DBSI Fuels crew is at the Midway House Bldg 414 to vacuum the UST liquids out of the steel tank encountered last week. Once the 90% full tank is emptied of fuel/water liquid, they use the DBSI All Terrain reach forklift to remove the tank from its' below grade location. As the tank is removed the exterior is visually inspected for signs of leakage, corrosion and overfill staining. In general there are no apparent indications that the tank walls were compromised during operation or when abandon in place. The bottom of the void cavity where the tank was removed has no visual indication of fuel oil or standing liquids. DBSI transports the tank away for proper disposal.
The void from the UST removal will be backfilled with clean coral sand from the borrow source area when the Midway House excavation limits are filled in and graded in the near future.

1030 – The Bravo barracks first treatment lift is being loaded out to the off road trucks and hauled into R2 Cell 2. At a depth of approximately 1.5 bgs, old building footings, rubble and demolition debris is found within the Fig 6 excavation. An area approximately 20'x20' between Bldg 4203 Bravo and Bldg 400 Power has the debris used as fill between small concrete footings. The footings relate to the removed former Navy Bldgs 412 barracks, S4138 location and/or Bravo revision. Exact specifics of the footings and utility corridor of old pipes today is unknown but can be related to the formed demolished structures.
The depth of rubble appears to end at <3.0' bgs. A small amount of debris is visually identified as ACM. Floor tile on loose cobbled concrete and transite exterior siding being the items. M.Amann U.S.FWS is made aware of the find. Iniki crew is available to remove the asbestos containing materials for double bagging, tag and staging for disposal.
The upright footings and corridor of concrete encased piping makes a maze of obstacles for the mini excavator to navigate. An alternate narrow bucket is used to clear the limited spaces. Pipes and intact footings are generally left in place within the working plot.

1200 – Lunch.

1300 – NWDE is working to achieve the second depth treatment to make the target 3' excavation limits in the first plot area for Bravo. ACM has been staged on plastic out of the immediate dig site.
The in-use 2400 vac 3-phase below grade electrical service is identified to run parallel to the southeast Fig 6 limits that orients NE/SW. Care is taken to work up to the yellow conduit and avoid incidents. Depth of burial is approximately 2'.

Iniki is nearly complete on finishing the work area clean up at the Transmitter Bldg 5309. At the NAF staging area, the JLG manlift is being cleaned, paint sprayers serviced and work materials organized and inventoried. Painting tasks are ramping down for the season with punch list work underway.

M. Amann, U.S. FWS and G. Lewis, Iniki are field verifying current DU9 lists for "all other structures" relative to items location, condition and ACM assessment.

1500 – Discuss with Eric Moore DBSI the option to remove the electrical service from Bldg 400 to Bldg 4203 Bravo if indeed the abandon barracks power requirement is no longer used. He indicates that the service is no longer needed and that DBSI will review removal of the power conductors tomorrow. Removal of the unnecessary electrical will aid in backfill tasks.

1645 – At the southeast corner of Bldg 4203 Bravo, an unmarked 1.25" copper potable water line is encountered with the Cat excavator bucket at 12"-16" deep, no foil marker. The low pressure water service is quickly turned off in a local valve can by DBSI facilities within 5 minutes. This pipe was oriented to feed the mechanical room end of the Bravo barracks. The water service is no longer required for the abandon barracks so it is traced back and capped outside of the excavation limits by DBSI Facilities crew.

1700 - Two parallel ½" steel lines for JP5 feed to the abandon Bravo boiler are excavated at the southwest corner of the mechanical room. The pipe burial is shallow at approximately 1'. With the first treatment lift target of 1.5' the fuel lines are suspended. During excavation one fitting connection cracks as the pipes are moved and a small spray of JP5 fuel begins to leak. Immediately the adjacent poly visqueen used for loading tasks is made into a containment and collects liquid. The work sites' spill kit absorbent pads are deployed in less than a minute and a bucket used to collect approximately 3 gallons of JP5 as it drains controllably from the cracked pipe. DBSI facilities worker isolates the small AST tank valve and ceases the flow of fuel. It appears the JP5 line to Bravo was open but boiler no longer in use.
With the fuel contained, materials are bagged up and liquids secured in one bucket. Impacted soil is less than a 2' radius, 180 degrees and estimate less than ½ qt of fuel contacted the ground. Soil is collected in half of a bucket to be conservatively cautious to remove the fresh fuel.
With the piping situation secured, wrap up for the day. Fuel lines will be isolated and capped going forward prior to backfill.

1730 – End of day.

Photographs:

Photo 01: Bldg 4203 Bravo Barracks. View west of Maectite mixing task.

Photo 02: Bldg 414 Midway House. View west. UST removal from Fig 6 excavation area.

Photo 03: Bldg 414 Midway House. View northeast. 4' dia x 6.5' UST removed.

Photo 04: 4203 Bravo Barracks. View south. Sidewalk and concrete features below grade.

Photo 05: 4203 Bravo Barracks. View northwest. 3' excavation encountering unknown footings & utilities.

Photo 06: Bldg 4203 Bravo. View south. Fuel line crack and background JP5 AST.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/28/15	122	0	0	0	0	869	10	167	1122
9/29/15	130.5	0	0	0	0	999.5	11	179	1301
Total to Date	949.5 soil	40 walls	0 soil	10 walls	0 soil		83 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

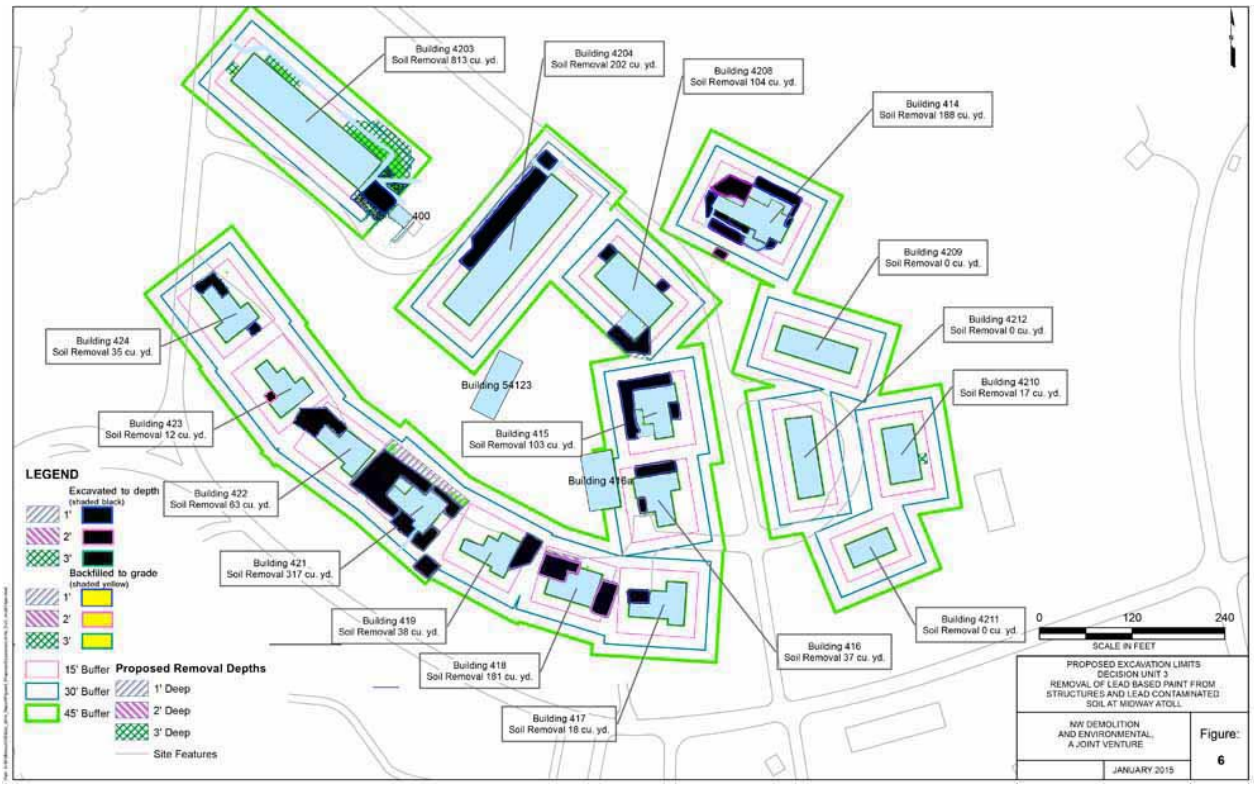
Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/28/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

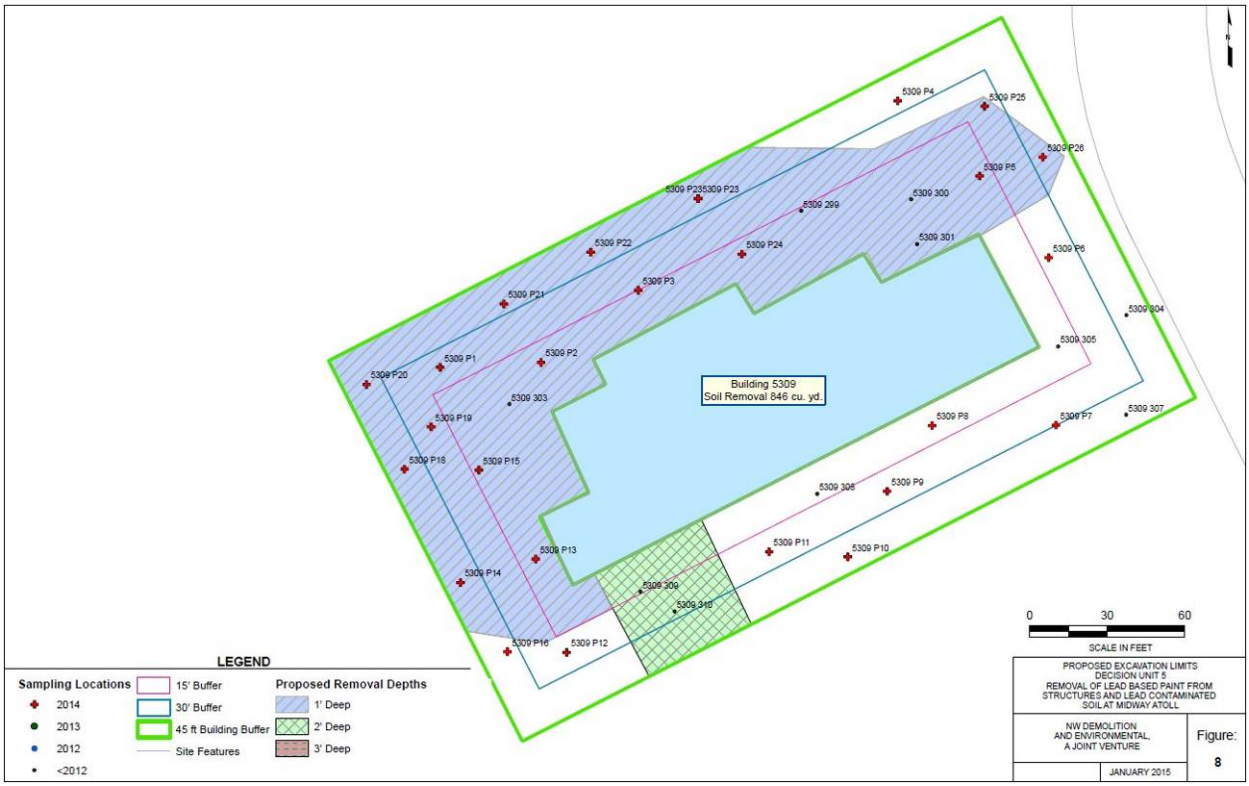
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Wednesday, September 30, 2015
Prepared by: Scott Wakefield

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: Sunny, wind 15 mph, Temperature ~83F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	8
Eric Alcosiba	Iniki Laborer	8
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	8
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will be at DU3 Bldg 4203 for soil tasks and DU8 Tank Farm. U.S. FWS has given the OK to proceed with the demolition scope of work for S28, S30, 404, 406, 407 AST tanks.
Iniki will be working at the Transmitter Bldg 5309.

0830 – Soil treatment and excavation continue at Bldg 4203 Bravo near the southwest corner of the mechanical room. The subsurface footings continue to be an obstacle that must be worked in and around to remove the treated soils. Materials are transported to the R2 Cell 2.
With the green light to proceed at the Tank Farm, NWDE mobilizes the 290 Volvo excavator with UP40 shear out to the S28 tank. Preparations for dust abatement are made with connecting fire hose lengths to the nearest hydrant north of the tank. The petrel burrows are checked in the work area and are minimal due to partial liner material and coral rubble base material.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1115 – At the Fuel Farm S28 AST, NWDE begins work to demo the steel JP5 tank. Beginning in the southwest section the shear is used to remove the roof drop pipe. Continue working to gain an initial access hole for safely disassembling the steel sheets.

Iniki crew at Bldg 5309 Transmitter is wrapping up the debris task work to move poly sheeting waste over to the NAF staging area. The sealed bags are placed in the appropriate lead waste shipping container for proper future disposal.

1200 – Lunch.

1300 – NWDE crew at the Bravo Barracks are progressing at the southeast corner of the building. The smaller plot areas previously staked out are treated with Maectite at the target rate of .75 gallons per cubic yard, amended with fire hydrant water and mixed with the mini excavator to a uniform consistency. Footing obstructions continue to be present at 12” bgs and some demo backfill debris is found at 1’-2’ deep. A small amount of ACM is present and will be included with yesterday’s ACM collection.
At DU8 S28, the side is opening up with the shear working away at the steel wall. As the base plate band is removed the inner floating roof is exposed. The float seal to the tank walls is made of foam and a shade cloth like material. ACM material for the seal is not present. The excavator continues a progressive approach to remove plate, supports and controllably bring the overall height of the tank down to the ground.

1430 – Finish out Bldg 415 MIS sample.

1630 – The S28 progress has brought the upper roof down to rest at a 45 degree angle. Approximately 20% of the tank wall is opened up with the floating roof and supports removed and size processed for hauling.

1730 – End of day.

Photographs:

Photo 01: R2 Cell 2. View east. Morning progress of soil volume.

Photo 02: Bldg 5309 Transmitter. View northeast. Final white LeadStop elastomeric coating on exterior.

Photo 02: DU8 S28 AST. View north. Begin demo of the 2.1 million gallon tank.

Photo 03: S28 floating roof to wall seal material.

Photo 04: S28 AST. Underside of tank roof.

Photo 05: S28 AST. View west. Roof supports removed with materials being sorted and piled

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/28/15	122	0	0	0	0	869	10	167	1122
9/29/15	130.5	0	0	0	0	999.5	11	179	1301
9/30/15	141.5	0	0	0	0	1141	10	194	1495
Total to Date	1091 soil	40 walls	0 soil	10 walls	0 soil		93 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/28/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0

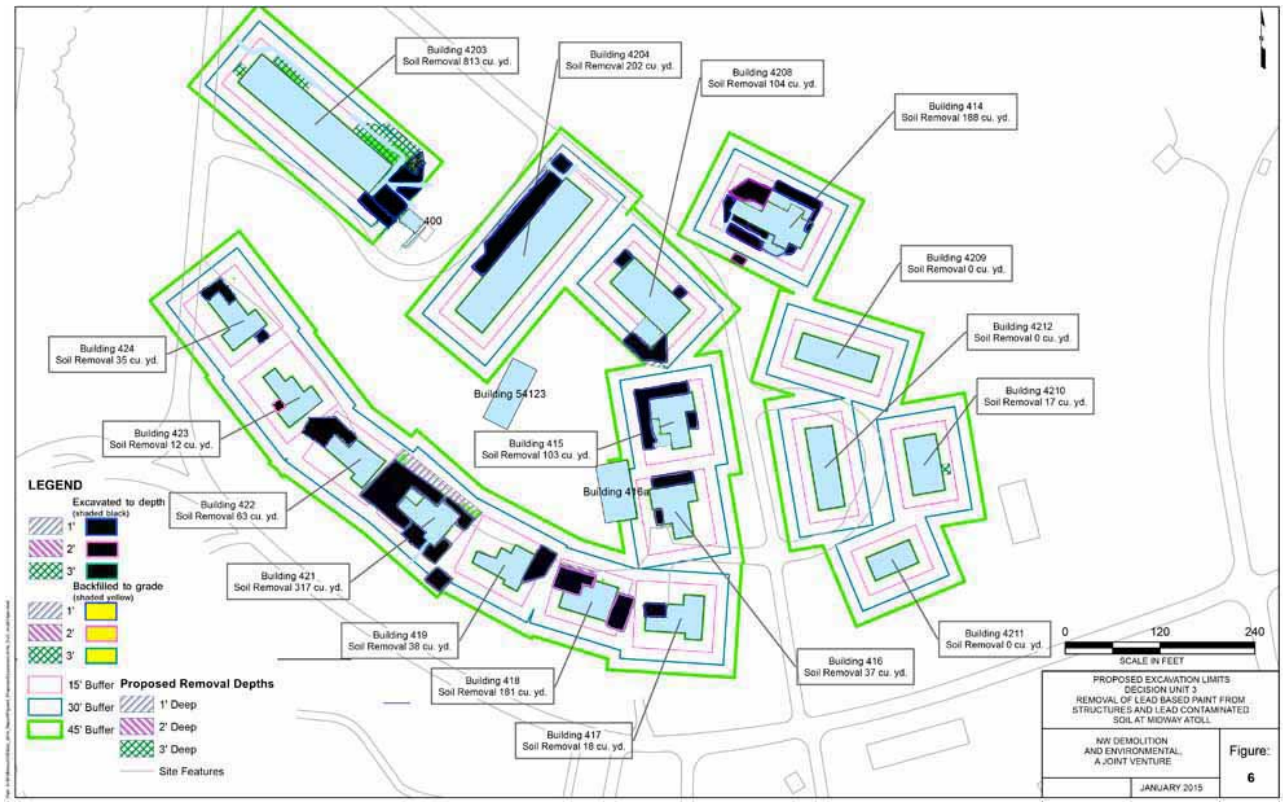
Table 4. Soil Sample Collection-

32 collection points / 1 Whirlpak samples collected today, 0 sample refused:

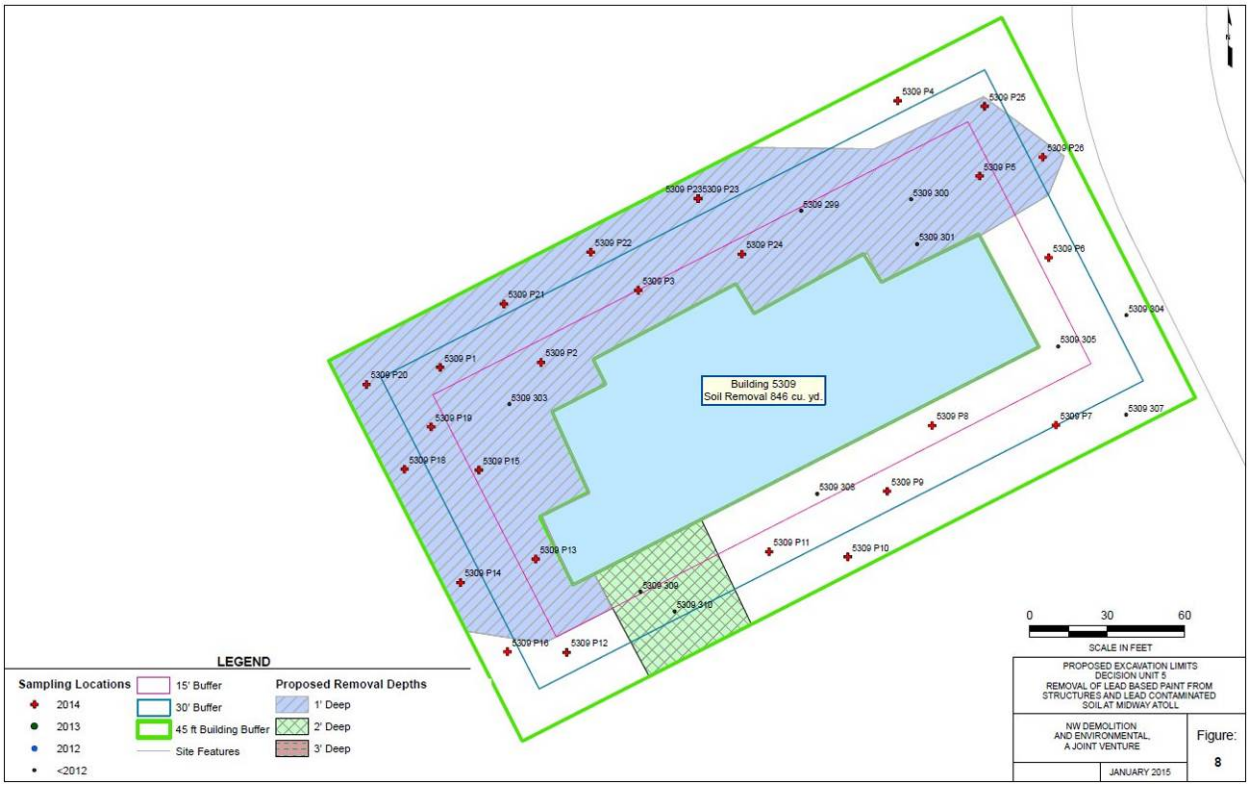
425 MIS 0-2” Triplicate	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Thursday, October 1, 2015
Prepared by: Scott Wakefield

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: Sunny, wind 14 mph, Temperature ~85F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	8
Eric Alcosiba	Iniki Laborer	8
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	8
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	175 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will be at Bldg 4203 Bravo for soil work and continue S28 AST demolition.
Iniki continues on season end punch list items.

0800 – At the east side of S28 JP5 tank, the abandon pipe run 4", 10" and 12" valves are unbolted from the tank. These valves are off and at the high point of the pipe length.

1000 – Shear work continues to manage the steel floating roof and tank roof. Steel tends to be torn apart into pieces that are folded once or twice. These will fit in the off road Volvo trucks once hauling to the boneyard begins.
Iniki is at the NAF staging area for equipment and materials work. O&M of the paint sprayers and JLG continue. Buckets used this season for LeadStop paint have been cleaned and are stacked up at the work area. Supplies are being packed away into the storage containers.
NWDE crew at Bravo are working the northeast wall excavation with the sewer vaults and connected piping. The fiber optic PVC line also runs through this plot area. The coral is treated with Maectite within the grid, amended with hydrant water and mixed prior to hauling out to the R2 Cell 2.

1115 – Calculate remaining DU3 MIS confirmation sampling grids.
Iniki is touching up LeadStop paint at the Transmitter Bldg 5309 on the north side eyebrow.

1200 – Lunch.

1300 – S28 AST has the tank roof pulled loose and down to ground level. Sheets of steel continue to be peeled off and staged for hauling out later to the boneyard. The stockpile near the tank is sorted into sheets and beams as it's removed from the former fuel tank.
As the floor edges buckle up from the tank foundation, initial visual indications below the steel floor plate do not have signs of fuel contamination in the sandy coral base pad. The foundation appears to be a perimeter ring located under the vertical tank wall with coral fill making up the majority of the pad.

1600 – At Bldg 4203 Bravo, NWDE is applying Maectite to the east plot near the middle of the building length. Utilities and demo debris have been reduced as the excavation heads northwest. The known fiber optic still remains in addition to the sewer vaults up against the foundation. The sidewalk also divides the work area as an obstacle.

1700 – The tank farm work for demolition of S28 AST is approximately 45% done. A bit of roof remains to be size processed, ¾ of the vertical walls to go yet and the full tank floor plate needs ripped up.

1730 – End of day.

Photographs:

Photo 01: S28 AST. View northeast. Morning progress of the tank demo.

Photo 02: S28 AST. View south. Unbolted valve connections to 12”, 10” & 4” pipes.

Photo 03: Bldg 4203 Bravo. View southeast. Treatment and excavation at sidewalk to foundation.

Photo 04: S28 AST. Interior wall coating showing signs of age, prior repair and rain infiltration from roof.

Photo 05: S28 AST. View northwest. Progress of demolition.

Photo 06: S28 AST. View east. End of the day status.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/28/15	122	0	0	0	0	869	10	167	1122
9/29/15	130.5	0	0	0	0	999.5	11	179	1301
9/30/15	141.5	0	0	0	0	1141	10	194	1495
10/01/15	102	0	0	0	0	1243	11	140	1635
Total to Date	1091 soil	40 walls	0 soil	10 walls	0 soil		104 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/28/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
10/01/15	0	0	0	0	0	0

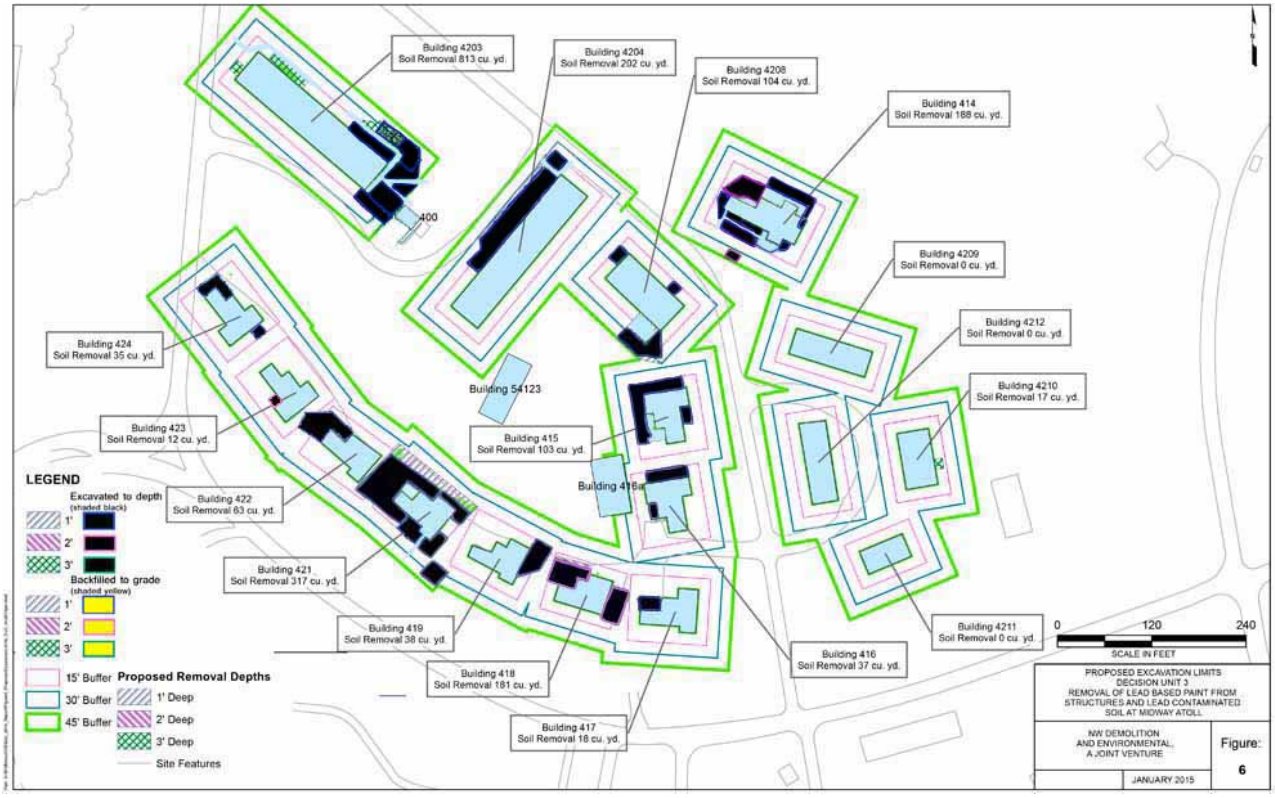
Table 4. Soil Sample Collection-

0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

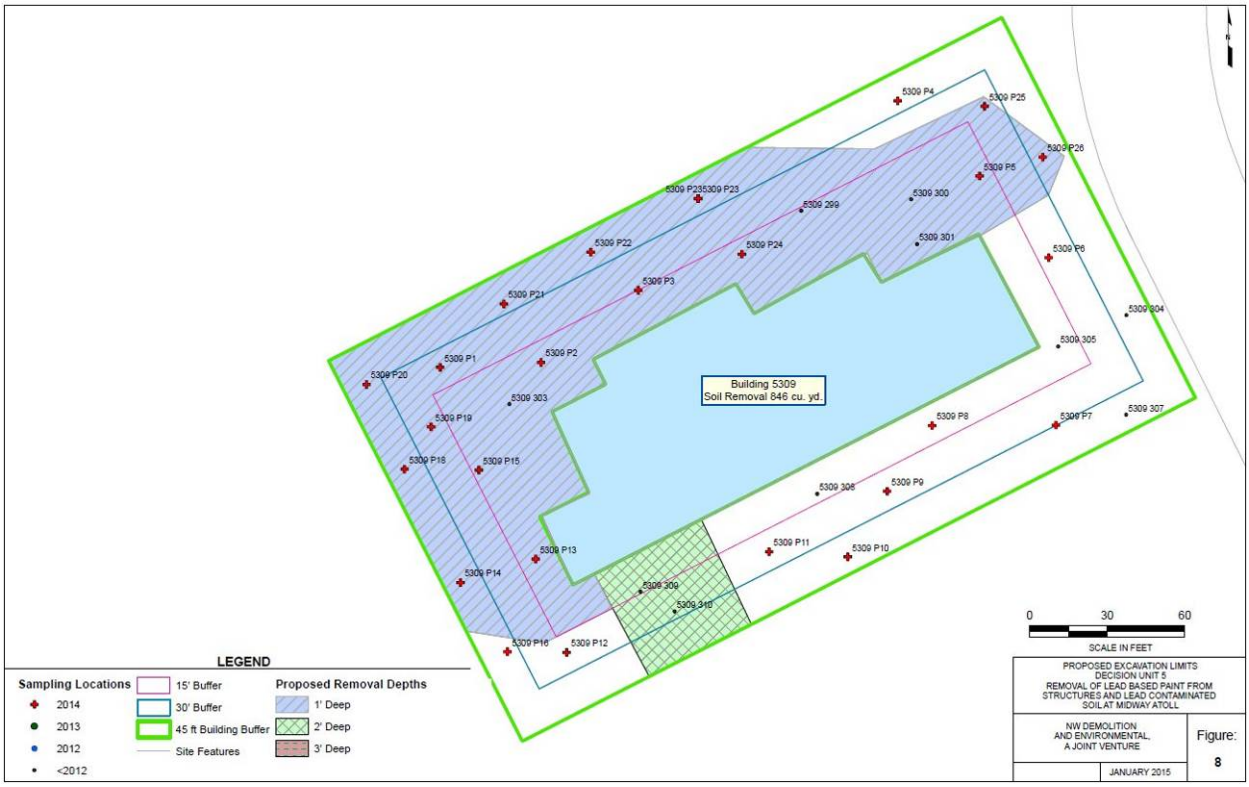
-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Friday, October 2, 2015
Prepared by: Scott Wakefield

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: Cloudy, wind 18 mph, Temperature ~84F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	8
Eric Alcosiba	Iniki Laborer	8
Evan Esposito	Iniki Laborer	8
Shelby Lewis	Iniki Laborer	8
Vincent Torrez	Iniki Laborer	8
Michael DeCarlo	Iniki Laborer	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will be at Bldg 4203 Bravo for soil work and continue S28 AST demolition.
Iniki continues on season end punch list items and Bravo ACM material task.

0800 – The S28 tank continues to be sheared, torn and processed into piles. Currently the steel is placed in sheet or beam piles south of the opening in the tank. Begin placing sheets to the north of the S28 tank opening since the work area is becoming smaller as the piles grow larger.
Place the two inner piping tank floats (appx 20" dia x 96" long) off to the side. These non-pressure rated vessels are a buoyancy float that were attached to the "fuel process out" pipe run. The outlet pipe is nearly centered in the tank. Inspecting the float inside through a 2" threaded port it appears to be porous foam filled and has residual JP5 fuel in it. The fuel is due to the threaded ports not being exceptionally tight or sealed in the threaded female fittings. Floating the tanks' effluent pipe would keep it from contacting the floor bottom and also reduce drawing sediment and water off the bottom of the tank when operable. Floats will be coordinated with DBSI for disposal as former UST's were managed.

1000 – Iniki has been working at the 4203 Bravo barracks to collect the ACM materials encountered during excavation. Concrete with tile affixed to it and old transite siding is double bagged in preprinted asbestos warning 6mil poly bags. Necks are twisted, sealed, goose necked and sealed again to adequately contain the material. These 22 bags along with one bagged ACM pipe bell from DU8 are staged with the current ACM at the NAF area. Project asbestos will be properly documented and disposed of in the future. Iniki also works on the final supply inventory and equipment preparation for long term storage at the NAF.

1030 – Continue DU3 confirmation sampling for Bldg 4208 and 414.
M.Amann U.S. FWS and G.Lewis Iniki are on the DU9 list for field inspection and verification of structures, vaults and other LBP features relative to the Project.

1200 – Lunch.

1400 – Bravo barracks progress has made it to the northeast corner of the Fig 6 limits. The foundation to sidewalk is being treated and mixed to the target 3' depth in two separate lifts. Materials once amended with water and mechanically mixed are placed in the A30 Volvo trucks and moved to the R2 Cell 2. NWDE has been pushing the R2 soil out level and continues to keep Cell 2 accessible for the Volvo truck to dump in.

1600 – At Bldg 4203 Bravo, NWDE is loading out conditioned soil from the northeast wall excavation plot. Working to the north end short wall the last plot is prepared for Maectite application. The 2400 vac electric and 3" HDPE water main border the road and plot. Hand digging is done as required.

1700 – The tank farm work for demolition of S28 AST is approximately 65% done. Approximately half of the vertical walls still stand and the full tank floor plate needs processed.

1730 – End of day.

Photographs:

Photo 01: Bldg 4203 Bravo. View northwest. Partial volume of bagged ACM from excavation.

Photo 02: Bldg 4203 Bravo. View southeast. Maectite conditioned soil first 18" lift.

Photo 03: S28 AST. Inner pipe buoy that is foam filled with residual JP5 inside.

Photo 04: S28 AST. View northeast. Steel piles grow as the JP5 tank is processed.

Photo 05: S28 AST. View north. Progress of demolition.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/28/15	122	0	0	0	0	869	10	167	1122
9/29/15	130.5	0	0	0	0	999.5	11	179	1301
9/30/15	141.5	0	0	0	0	1141	10	194	1495
10/01/15	102	0	0	0	0	1243	11	140	1635
10/2/15	152	0	0	0	0	1395	12	208.5	1843.5
Total to Date	1345 soil gallons	40 walls	0 soil	10 walls	0 soil		116 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
10/02/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
10/02/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
10/02/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/28/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
10/01/15	0	0	0	0	0	0
10/02/15	0	0	0	0	0	0

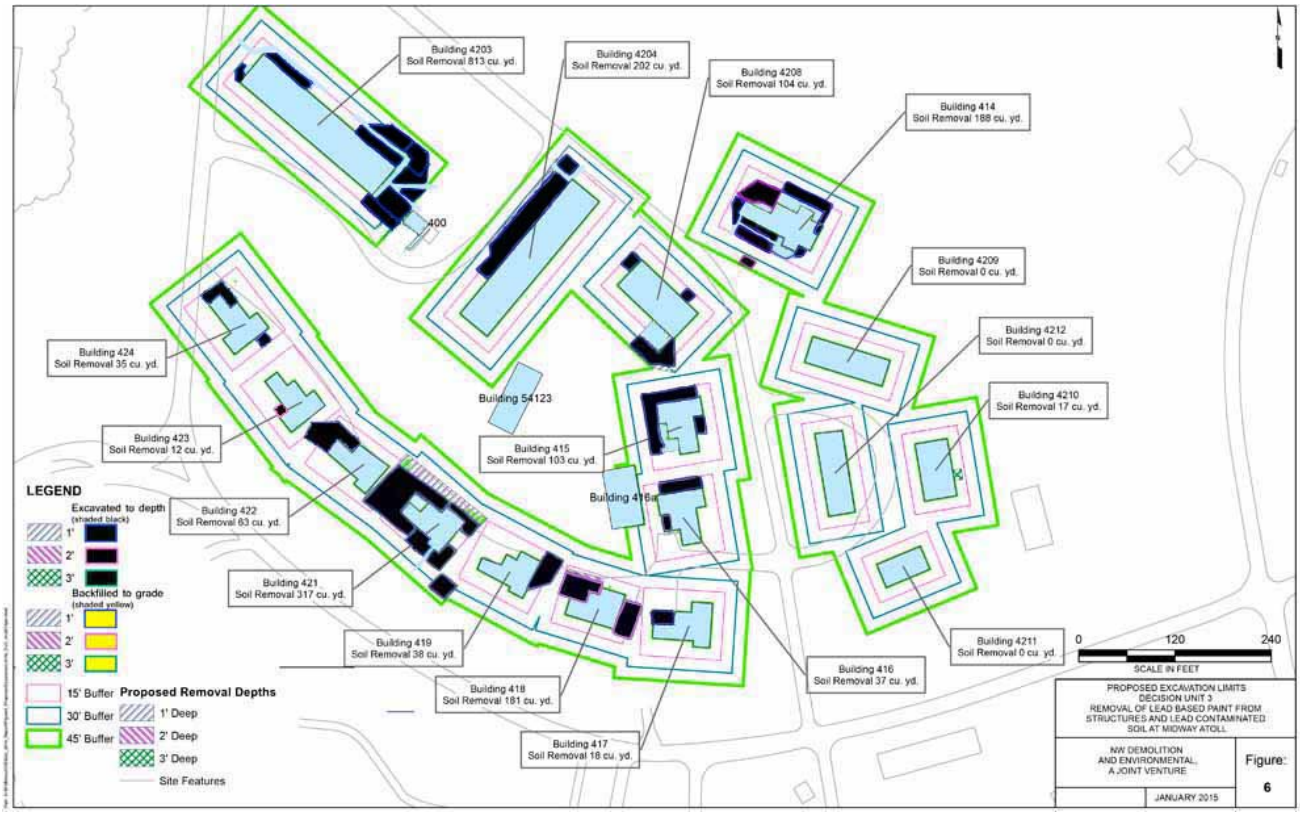
Table 4. Soil Sample Collection-

116 collection points / 7 Whirlpak samples collected today, 0 sample refused:

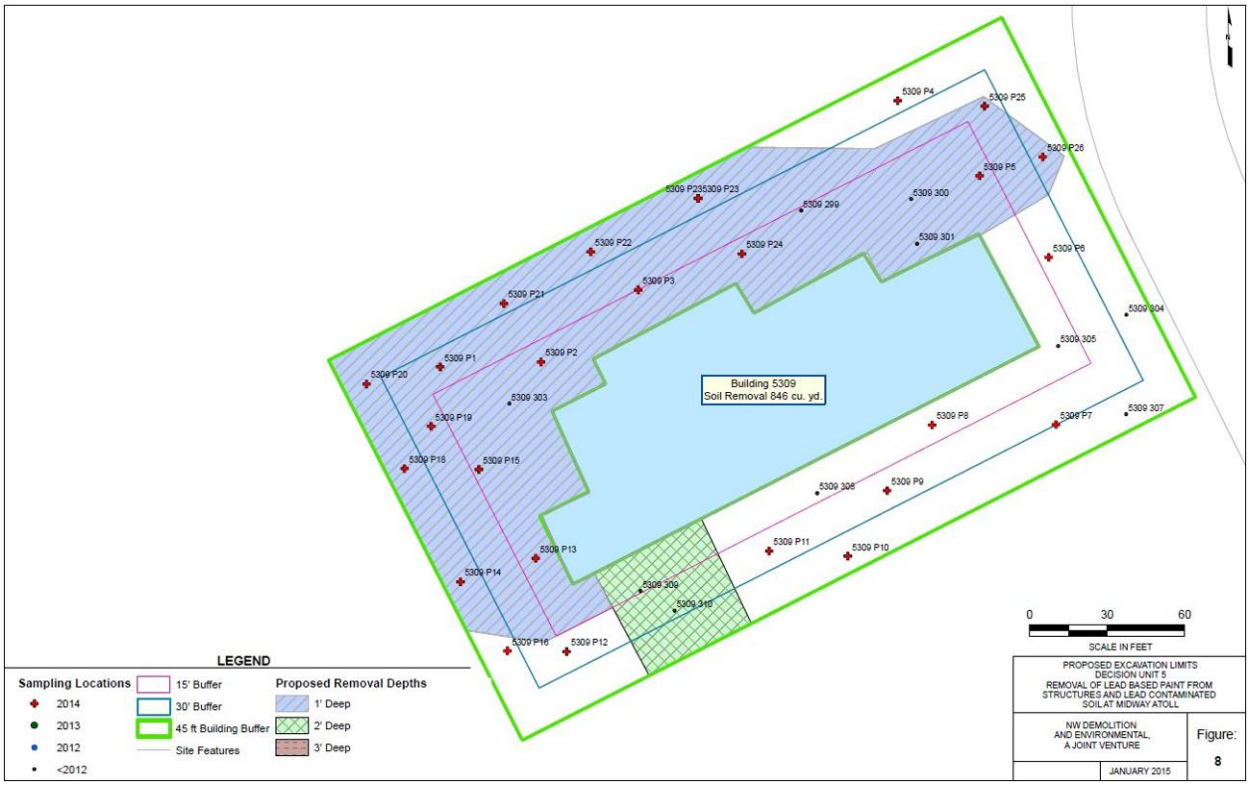
4208P100 0-2”	-4208P100 0-2” DUP	-
4208P101 0-2”	4208P101 0-2” DUP	-
414 MIS 0-2”	414 MIS 0-2” DUP	414 MIS 0-2” Triplicate

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Saturday, October 3, 2015
Prepared by: Scott Wakefield

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: Cloudy, wind 22 mph, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	0
Eric Alcosiba	Iniki Laborer	0
Evan Esposito	Iniki Laborer	0
Shelby Lewis	Iniki Laborer	0
Vincent Torrez	Iniki Laborer	0
Michael DeCarlo	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	222 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will focus on backfilling DU3 housing areas today.

0800 – The last small cleanup of moving treated soil out of Bldg 4203 Bravo is wrapping up.
NWDE crew is also mobilizing the 290 excavator to the North Cargo Pier. This approved beach is the borrow source material for backfilling the Fig 6 excavation areas. Clean coral sand is to be hauled from the North Beach and placed around the Officers' Housing in excavated areas. Both the Cat mini excavator and tracked Bobcat skid steer are used to move the tons of sand into position and establish grade. Finish grade is 4-6" above original benchmark for settling consideration.

0820 – Task work at the beach begins with loading the first truck out of the borrow source area. A biological monitor is onsite to visually spot for sea life during equipment operation. Birds, Green Sea Turtles and Hawaiian Monk Seals are the primary animals of concern. The monitor will advise if animals are present and halt work as required.

1120 – Backfill has been placed at Bldgs 424, 423, and a portion of 422. Utilities that have been previously located and exposed are carefully positioned with the new clean coral. Above the utilities at appx 12" new foil marker tape is positioned to identify the pipe, conduit or wire for primary services.

1200 – Lunch.

1245 – Collect weathered paint sample off Bldg S1126 Thai Temple for lead testing as part of DU9 scope. Confirmation sampling for Bldg 4204 Charlie Barracks is placed and MIS collection goes forward.

1500 – M.Amann U.S. FWS and G.Lewis Iniki continue field inspection for DU9 buildings in further defining specific details of structures, areas and trees that will need to be removed prior to next seasons' work.

1600 – NWDE is progressing well for filling in Fig 6 excavation plots. Nearing Bldg 418 the pace of work continues with the A30 trucks tipping loads in the plot, the mini excavator doing rough in elevation work and the skid steer making final grade. Hand work occurs near the buildings and utilities on the structures.

1730 – End of day.

Photographs:

Photo 01: Fuel Pier. View north. Loading clean coral sand from borrow source area.

Photo 02: Bldg 421 & 422. View southwest. Backfill task work.

Photo 03: Cargo Pier. Off road truck hauling of clean coral sand to DU3.

Photo 04: Bldg 421. View southeast. Progression of backfill work.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
9/28/15	122	0	0	0	0	869	10	167	1122
9/29/15	130.5	0	0	0	0	999.5	11	179	1301
9/30/15	141.5	0	0	0	0	1141	10	194	1495
10/01/15	102	0	0	0	0	1243	11	140	1635
10/2/15	152	0	0	0	0	1395	12	208.5	1843.5
10/3/15	0	0	0	0	0	1395	1	0	1843.5
Total to Date	1345 soil gallons	40 walls	0 soil	10 walls	0 soil		117 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
10/02/15	0	0	0
10/3/15	40	600	600
Total to date- 40 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
10/02/15	0	0	0
10/3/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
9/28/15	0	0	0
9/29/15	0	0	0
9/30/15	0	0	0
10/01/15	0	0	0
10/02/15	0	0	0
10/3/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
9/28/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
9/29/15	0	0	0	0	0	0
10/01/15	0	0	0	0	0	0
10/02/15	0	0	0	0	0	0
10/03/15	0	0	½ - DU3	0	0	0

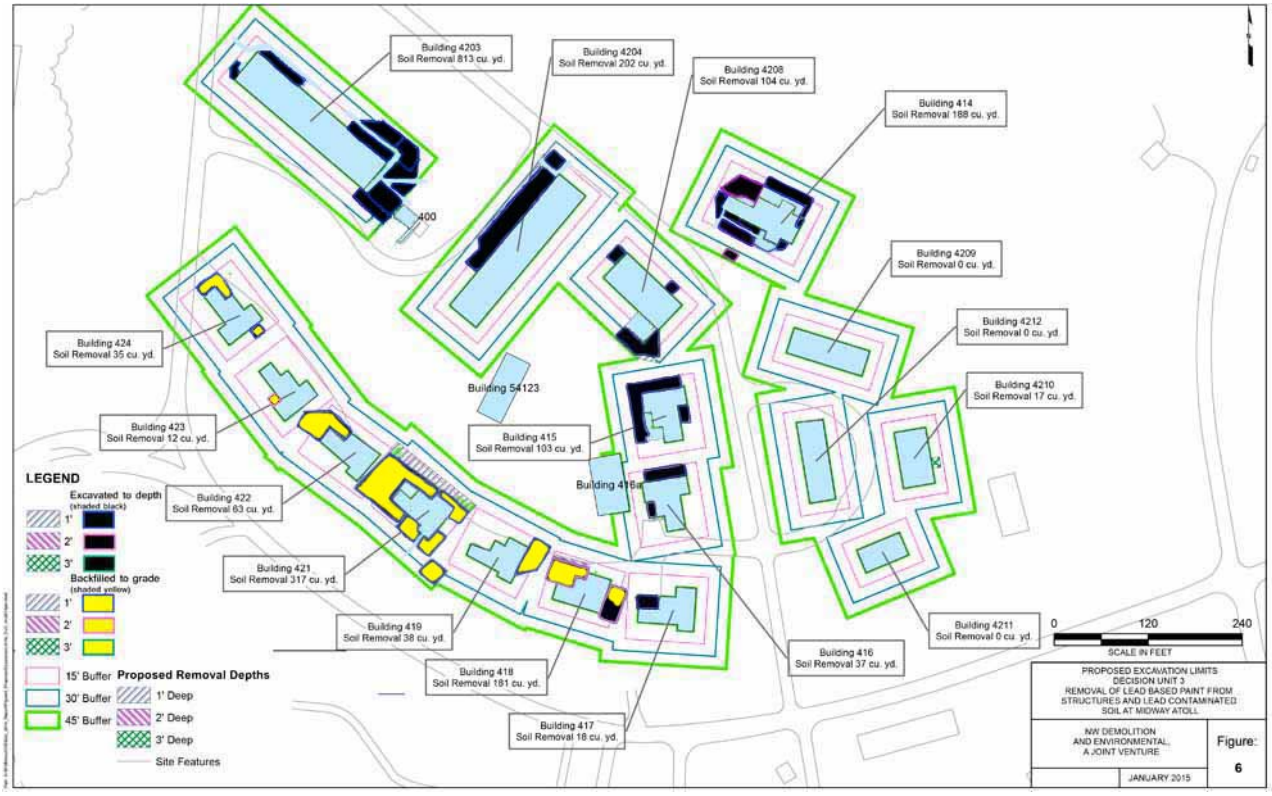
Table 4. Soil Sample Collection-

98 collection points / 5 Whirlpak samples collected today, 0 sample refused:

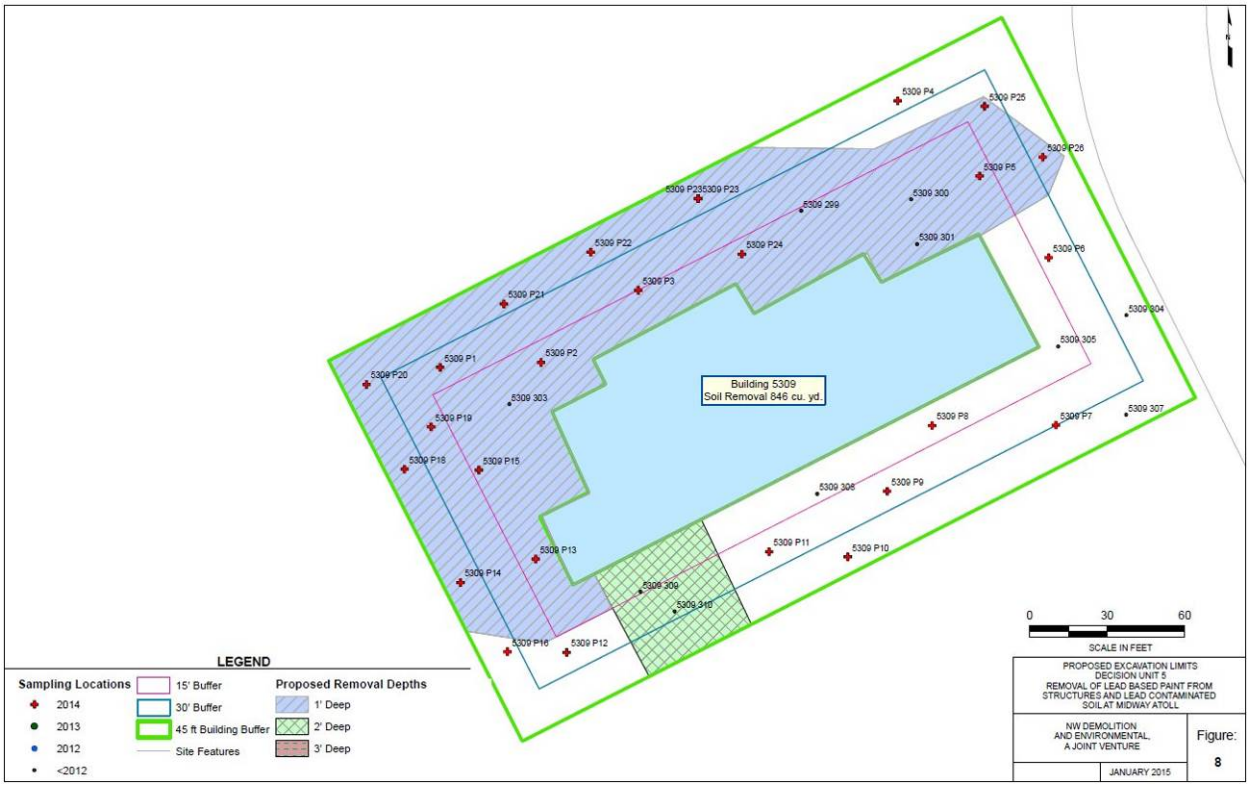
S1126 White Chip	S1126 Blue Chip	-
4204 MIS 0-2”	4204 MIS 0-2” DUP	4204 MIS 0-2” Triplicate

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Monday, October 5, 2015
Prepared by: Scott Wakefield

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: Cloudy, wind 22 mph 30 mpg gusts, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	10
Eric Alcosiba	Iniki Laborer	0
Evan Esposito	Iniki Laborer	0
Shelby Lewis	Iniki Laborer	10
Vincent Torrez	Iniki Laborer	0
Michael DeCarlo	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	182 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue backfilling DU3 housing areas today.

0800 – The two NWDE off road trucks return to making round trips from the Cargo Pier borrow source area to Bldg 416 and 415. The Volvo 290 excavator is working from the Fuel Pier headed southeast as the clean sand is loaded into the trucks. A biological monitor is present during beach area work to view for animal conflicts with material export tasks.

Layout and collect confirmation samples for Bldg 4203 Bravo.

Iniki's G. Lewis is field verifying additional details relative to next season's DU9 abatement work.

1100 – The day remains a cycle of the off road trucks being loaded at the Cargo Pier, hauling into DU3 housing areas, the mini excavator flattening the bulk and tracked Bobcat skidsteer making final grade. Currently the Midway House is backfilled on the south side with a few loads into Charlie Barracks as time allows.

1200 – Lunch.

1245 – Re-stake Fig 6 excavation area north of Bldg 421 on the north side of the road. This strip was not taken out yet due to the Volvo trucks axle width needing the roadway shoulder for excavation and backfill maneuvering. This shade cloth covered plot will be treated in place and hauled to the R2 Cell 2, then backfilled in the next day or so.

1550 – Begin mark-out of DU8, Fig 8, Bldg 5309 Transmitter building. Shade cloth will remain in place until just prior to excavation beginning.
The Midway House backfill is progressing to the north side of the structure. The TV cable utility is positioned at appropriate elevation, covered and foil marker taped 12" above the direct burial wire.
Bldg 4204 Charlie Barracks import sand is going in. The Bobcat skidsteer is primary to rough in and grade the material into the shallow excavation. Water and fiber optic are foil tape marked as required.

As the day wraps up, Midway House and Charlie Barracks have the plots filled in with grade work mostly complete. For all the DU3 housing that has sand placed the final pickup of stakes, debris and sandbag pallets still remains.

1730 – End of day.

Photographs:

Photo 01: Bldg 415. View northwest. Placement of clean coral sand in small excavation.

Photo 02: Bldg 4208. View east. Backfill task work.

Photo 03: Bldg 414 Midway House. View north. Backfill of excavation and UST pit.

Photo 04: Bldg 4204. View south. Rough in grade for Charlie Barracks plots.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/5/15	0	0	0	0	0	1395	0	0	1843.5
Total to Date	1345 soil gallons	40 walls	0 soil	10 walls	0 soil		117 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
Total to date- 96 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/5/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/5/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/5/15	0	0	0	0	0	0

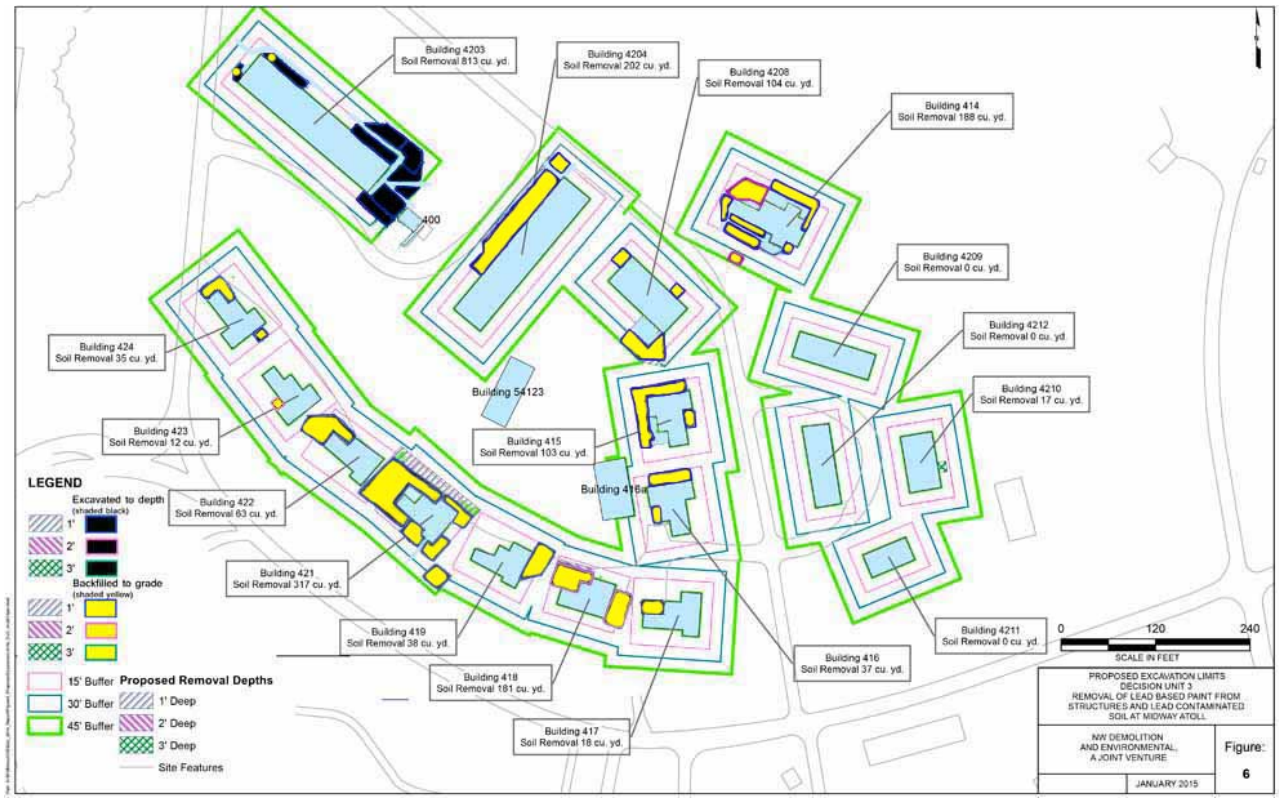
Table 4. Soil Sample Collection-

96 collection points / 3 Whirlpak samples collected today, 0 sample refused:

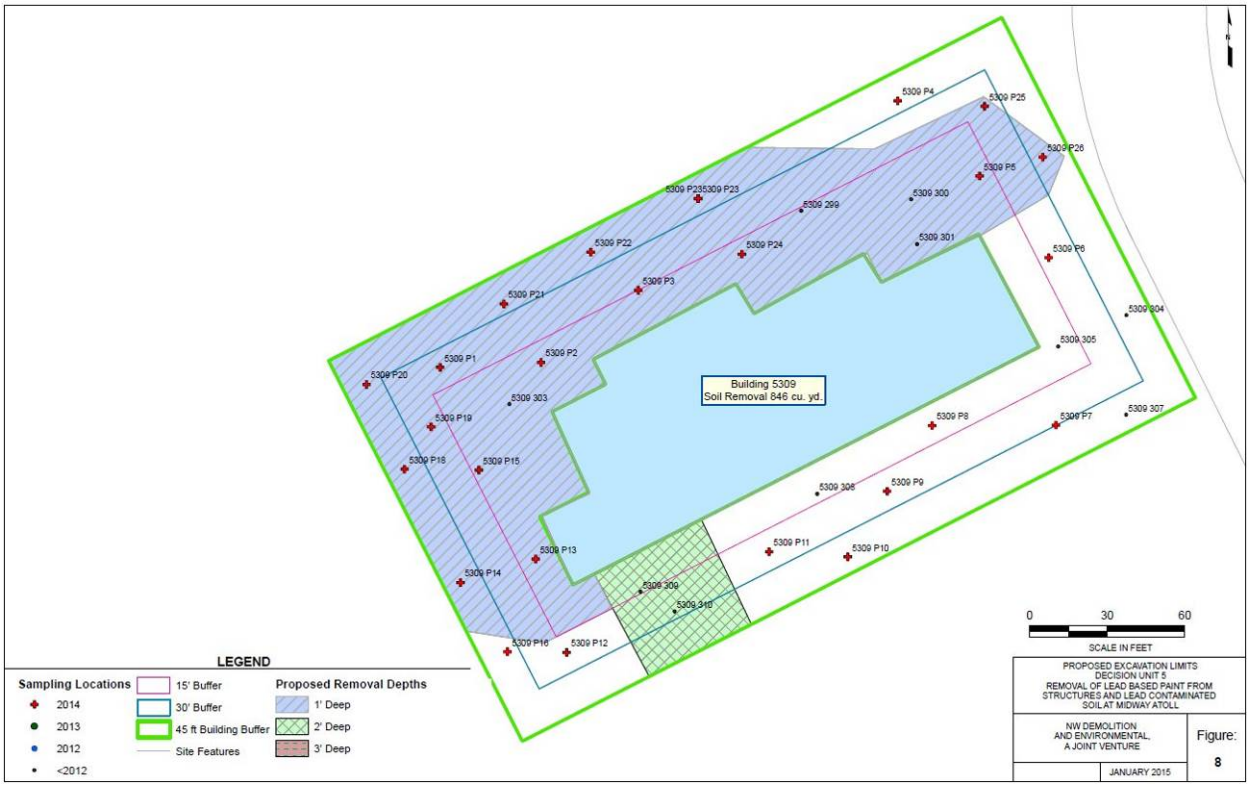
4203 MIS 0-2”	4203 MIS 0-2” DUP	4203 MIS 0-2” Triplicate
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



Daily Field Report

Date: Tuesday, October 6, 2015
Prepared by: Scott Wakefield

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: Cloudy, wind 20 mph, 30 mpg gusts, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Laborer	10
Gary Lewis	Iniki Supervisor	0
Eric Alcosiba	Iniki Laborer	0
Evan Esposito	Iniki Laborer	0
Shelby Lewis	Iniki Laborer	0
Vincent Torrez	Iniki Laborer	0
Michael DeCarlo	Iniki Laborer	0

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	70 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue backfilling DU3 areas today, specifically Bravo barracks.

0800 – Pick up and grade work are being done at Charlie Barracks and the Midway House to finish off the backfill work at these buildings. This includes hand rake and shovel detail up tight to the buildings.
The Iniki crew prepares to depart Midway for the season. Their scope of work for 2015 is complete and they will be flying out on the scheduled charter flight inbound this morning.
Continue staking out DU5, Fig 8 excavation plots at Transmitter Bldg 5309 site. The large square footage is divided up into smaller manageable plots for Maectite calculations and logistics of treating and hauling the soil out later this week.

1130 – The G3 Charter flight departs Midway with the Iniki lead and asbestos abatement team onboard.

1200 – Lunch.

1245 – Import clean coral sand continues to be placed at Bldg 4203 Bravo barracks. Using two Volvo A30 trucks, the minimum 15 cuyd loads are spotted backing up, dumped and then roughed in. Both the Cat mini excavator and tracked Bobcat are used to achieve grade. The fiber optic conduit is marked using orange foil marker tape preprinted with “Fiber Optic” markings the same as prior backfill work tasks.

1330 – Transmitter building plot staking continues at the south and southwest ends of the building, working around to the northwest wall.

1700 – Bravo Barracks has made the goal of being backfilled today. Clean sand is graded to a benchmark approximately 4-6” above the sidewalk and prior foundation mark to account for settling once rain and time durations occur.

1730 – End of day.

Photographs:

Photo 01: Bldg 4203 Bravo. View northwest. Backfill of 3' deep excavation area.

Photo 02: G3 Charter departs PMDY with Iniki crew aboard.

Photo 03: Bldg 4203 Bravo. View northwest. Backfill task work near end of day.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/5/15	0	0	0	0	0	1395	0	0	1843.5
10/6/15	0	0	0	0	0	1395	0	0	1843.5
Total to Date	1345 soil gallons	40 walls	0 soil	10 walls	0 soil		117 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
Total to date- 137 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/5/15	0	0	0	0	0	0
10/6/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

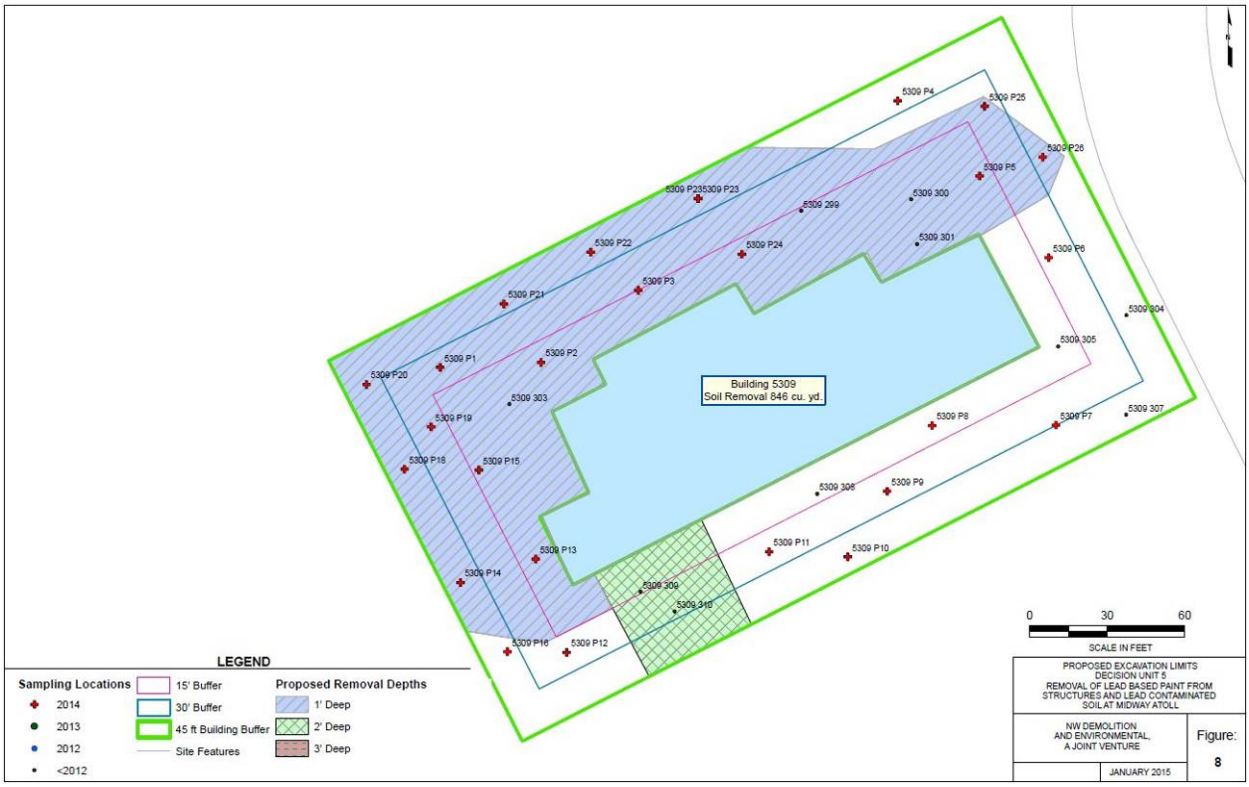
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, October 7, 2015
Prepared by: Scott Wakefield

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: Cloudy, wind 13 mph, Temperature ~78F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will work a small section of DU3 remaining parallel to Bldg 421 road access.

0800 – At the Officer's Housing loop road, a long section to be treated and excavated remains north of Bldg 421, north of the roadway. This staked plot is calculated for the required rate of .75 gallons per cubic yard, mixed with the mini excavator flat edged bucket while amended with hydrant water. Treated soils are loaded and hauled to the R2 Cell 2 with one A30 truck.
Two person NWDE team is at the R2 Cell 1 pulling back the sand bags and shade cloth opening up additional area to tip loads for the upcoming DU5. Soil piles in Cell 2 are also knocked down using the tracked Bobcat skidsteer.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1115 – The DU3 section is being excavated out and the crew prepares to haul clean coral sand off the Cargo Pier borrow source area. One clean off road truck brings in the few loads needed to fill in the 1' deep plot.
Continue staking out sections of Bldg 5309 Transmitter building for the irregular areas around the structure.

1200 – Lunch.

1245 – NWDE is wrapping up grade work north of Bldg 421. Begin to pick up to mobilize onward to DU5 Transmitter building site for soil treatment.
The initial task will be picking up sandbags that are positioned atop the shade cloth. This clears the way to drive on top of the cloth to access the southwest end of the building. Petrel Patrol is underway to check ground burrows in the work area. The edges of the shade cloth with active burrows are cleared prior to machinery accessing the area.

1400 – The Volvo 290 excavator with UP40 shear is brought onsite to address the southwest wall steel roof tip out. This steel pipe roofing truss is painted and structurally not sound. The former decking and weather cover is long gone. Several steel posts are corroded off at the pier footing and rebar cross bracing is dangling hazardously. US. FWS approved the removal of the skeleton structure to eliminate the danger to workers and birds.
The steel pipe structure is nipped off, cut to manageable size and loaded out to the bone yard scrap pile.
The shear returns to DU8 S28 AST and resumes dismantling the remaining walls of the former JP5 tank.

1520 – Volvo 290 excavator #2 is fitted with the rake attachment for soil mixing. Set up to apply Maectite to the south excavation limits of Bldg 5309. The ground is scarified using the rake prior to applying reagent. Once Maectite is applied hydrant water is liberally added and the rake mixes to a uniform consistency to stabilize the LBP impacted soil.
As the day wraps up, the treated DU5 soil will sit overnight and be loaded out in the morning.

1730 – End of day.

Photographs:

Photo 01: Bldg 421. View southeast. Treat and excavate plot north of roadway.

Photo 02: Bldg 5309. View northeast. Cut and remove degraded pipe truss shed structure.

Photo 03: Bldg 5309. View north. Scarify plot prior to Maectite application.

Photo 04: S30 AST (left). S28 AST (right.) View northwest. Tank demo progress.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/5/15	0	0	0	0	0	1395	0	0	1843.5
10/6/15	0	0	0	0	0	1395	0	0	1843.5
10/7/15	33	0	42	0	0	1470	3	103	1946.5
Total to Date	1378 soil gallons	40 walls	42 soil	10 walls	0 soil		120 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/5/15	0	0	0	0	0	0
10/6/15	0	0	0	0	0	0
10/7/15	0	0	¼ DU5	0	0	0

Table 4. Soil Sample Collection-

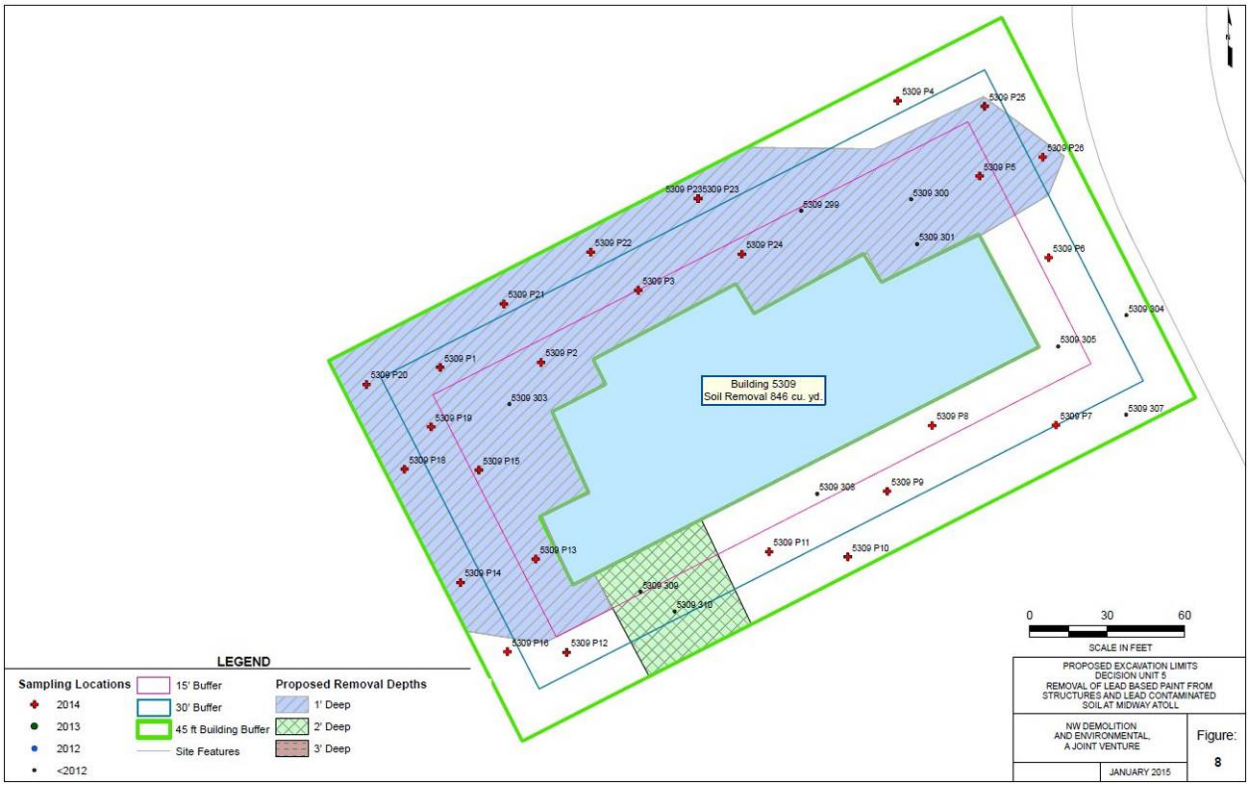
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, October 8, 2015
Prepared by: Scott Wakefield

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: Cloudy, wind 9 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	205 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will remain on task at DU5 Transmitter building and DU8 for S28 AST demolition.

0800 – At the southeast corner of Bldg 5309 the first soil lift that has been Maectite treated and mixed ending yesterday is loaded out. This is a short round trip with two A30 trucks to the R2 Cell 1. Soil is being placed in the newly uncovered cell to maintain a relatively even elevation across cells 1 and 2.
As DU5 soil is being loaded out with the Volvo 290 excavator, the second 290B fitted with the UP40 steel shear is running at the abandon S28 JP5 tank. The short steel walls that remain standing are being processed into the smaller sizes required to haul out later to the boneyard.

1000 – At Transmitter Bldg 5309 the soil crew progresses to the southwest plots for 1' excavation limits. Shade cloth that has been used for haul truck route is being pulled up to open the next work section. Along the buildings short end wall, asphalt accesses the loading dock but most portions are covered with a thin lift of soil. This is to be scraped back to define the available soil to treat vs asphalt that will be treated but left in place. The mini excavator with 4' flat edge bucket is used to maneuver along the building gently and not disrupt the old concrete structure. The offset boom adjustment is far better to reach angle areas rather than the fixed 290 Volvo boom.

1030 – M.Amann U.S. FWS and S.Wakefield NWDE begin field marking of next season's DU9 tree task. Structures that are slated for work next season and have Ironwood trees within the immediate work area will need removed prior to soil or demo work. By marking the trees and documenting locations a work plan can move forward sooner than later. DBSI has removed trees in past seasons and likely will be involved to address the DU9 tree work.

1200 – Lunch.

1245 – NWDE continues to work the soil at the southwest end of Bldg 5309. Maectite is calculated and applied straight from the tote at the target rate of .75 gallons per cubic yard. Hydrant water via fire hoses is doused as needed and the 290B excavator rake attachment mixes the liquids and LBP impacted soil to a uniform consistency. Treated materials are then moved to the R2 Cell 1 for permanent placement.

1300 – Resume marking trees for removal in DU9 project areas.
NWDE shear and excavator remain on task at S28 to cut and tear the lower tank sheets down to manageable sizes. The floor plate remains in place as a working area as the vertical walls are processed.

1500 – NWDE at DU8 has mobilized the shear to the standing 2.1 million gallon JP5 AST. This abandon tank is next to be dismantled and sized for transport to the boneyard. S28 still has a short wall section remaining as a windbreak and work area for upcoming hauling work.
The shear begins to tear into S30 and open up the side of the cylinder. Beginning on the west side an opening is quickly achieved and torn open to expose the floating roof edge.

1700 – DU5 soil work at south 15' to 45' boundary is treated, pulled out and in the R2 Cell 1 for the day.

1730 – End of day.

Photographs:

Photo 01: R2 Cell 1. View southwest. Remove shade cloth for DU5 import treated soil.

Photo 02: Bldg 5309. View north. Loading Maectite treated soil.

Photo 03: S28 AST. View east. Demolition progress with short walls and floor remaining.

Photo 04: S30 AST. Floating roof above and effluent pipe with float cylinders attached.

Photo 05: S30 AST. Underside of the stationary roof.

Photo 06: S30 AST (left), S28 AST (right.) View west. Demolition progress.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/5/15	0	0	0	0	0	1395	0	0	1843.5
10/6/15	0	0	0	0	0	1395	0	0	1843.5
10/7/15	33	0	42	0	0	1470	3	103	1946.5
10/8/15	0	0	184.5	0	0	1654.5	22	253	2199.5
Total to Date	1378 soil gallons	40 walls	226.5 soil	10 walls	0 soil		142 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
10/8/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
10/8/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/5/15	0	0	0	0	0	0
10/6/15	0	0	0	0	0	0
10/7/15	0	0	¼ DU5	0	0	0
10/8/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

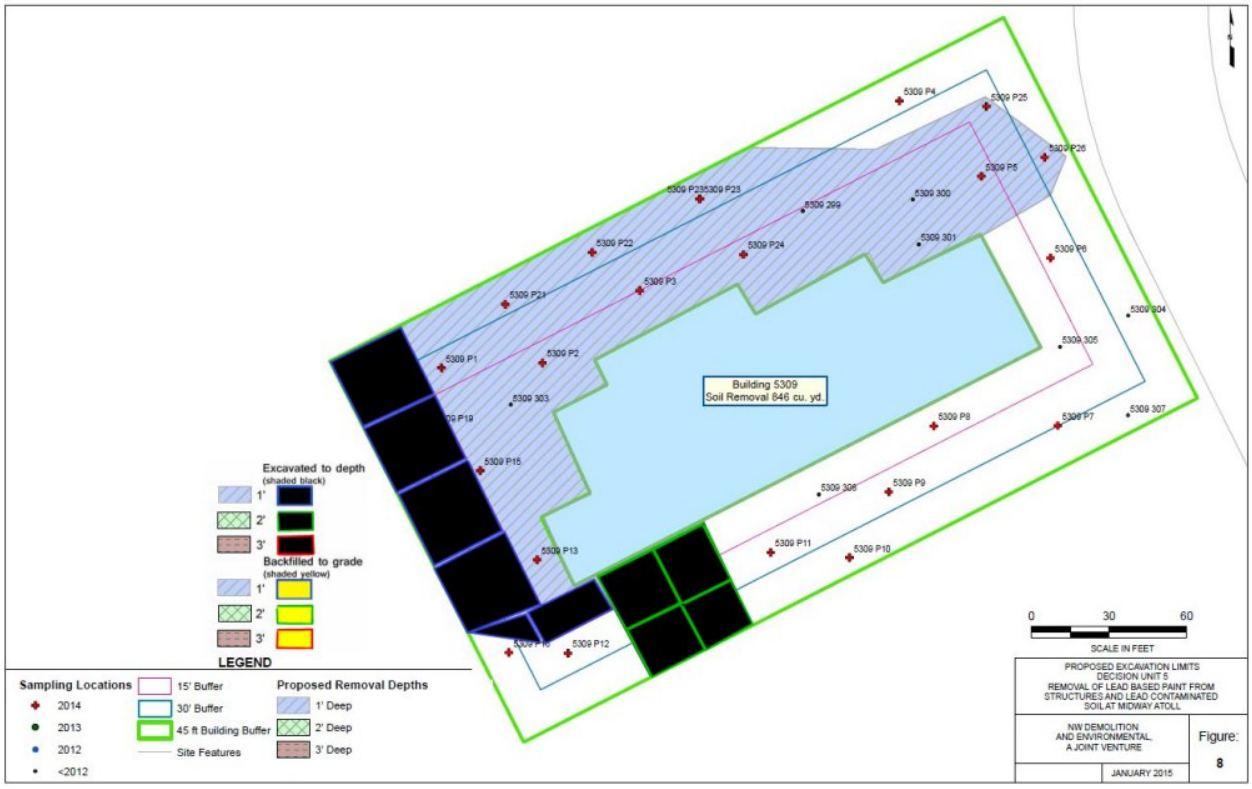
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Friday, October 9, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 8 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	90 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will remain on task at DU5 Transmitter building and DU8 for S28 AST demolition.

0800 – Bldg 5309 soil work resumes at the 15' buffer zone west end of the structure. A considerable square footage of asphalt is being scraped off that was the loading dock access road. This divides up the staked 30'x30' plot areas. Asphalt footage is backed out of the Maectite calculation when treating each plot to remain consistent with the .75 gallons per cubic yard of soil.
The Volvo with rake attachment is in use once reagent is applied and mixed with hydrant water throughout the soil.
DU8 demo work on the S30 AST remains active as the roof section is being brought down and processed. The shear attachment is working well at cutting materials and also starting points for tearing the sheet into manageable pieces.

1015 – At Bldg 5309, several plots are treated. The rake is changed out for the large flat edged bucket and loading trucks begins. This process is typical and soils are hauled to the R2 Cell 1 for placement. The Bobcat tracked skidsteer manages the R2 soil piles once dumped to an even course grade.

1200 – Lunch.

1245 – Layout MIS confirmation sample points at the south / southwest plot areas. Collect the 32 points, duplicate, triplicate and document samples with MIS grid.

1500 – At Bldg 5309, NWDE pulls back the next section of shade cloth and prepares to apply Maectite to the soils. Around the former HVAC heat exchanger slab the narrow soil strip is dug out using the mini excavator and narrow bucket. The abandon heat exchanger core metal is loaded up and hauled to the recycle stockpile at the boneyard.
Once the soil is treated and mixed with Maectite and hydrant water, loading the two off road trucks begins.

1600 – AST S30 is making good progress in being pulled down. The stationary roof is off and inside the vertical tank walls. It and the floating roof are worked on to downsize sheets into appropriate sized materials. The vertical walls are removed in approximately 20% of the tank to gain access and work on the steel tank floor when processing metal. By the end of the day 30% of the floating roof is cut up and 50% of the upper roof sheeting.

1730 – End of day.

Photographs:

Photo 01: Bldg 5309. View southeast. Maectite mixing and hydrant water amendment.

Photo 02: Bldg 5309. View south. Close quarters excavation at foundation and slab.

Photo 03: Bldg 5309. View northeast. Excavation and remaining asphalt roadway.

Photo 04: S30 AST. View north. Progress of removing wall section and stationary roof.

Photo 05: S30 AST. End of the day progress.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/5/15	0	0	0	0	0	1395	0	0	1843.5
10/6/15	0	0	0	0	0	1395	0	0	1843.5
10/7/15	33	0	42	0	0	1470	3	103	1946.5
10/8/15	0	0	184.5	0	0	1654.5	22	253	2199.5
10/9/15	0	0	136	0	0	1790.5	16	186.5	2386
Total to Date	1378 soil gallons	40 walls	362.5 soil	10 walls	0 soil		158 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
10/8/15	0	0	0
10/9/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
10/8/15	0	0	0
10/9/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/5/15	0	0	0	0	0	0
10/6/15	0	0	0	0	0	0
10/7/15	0	0	¼ DU5	0	0	0
10/8/15	0	0	0	0	0	0
10/9/15	0	0	1	0	0	0

Table 4. Soil Sample Collection-

96 collection points / 3 Whirlpak samples collected today, 0 sample refused:

5309 MIS A 0-2”	5309 MIS A 0-2” DUP	5309 MIS A 0-2” Triplicate
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5

Daily Field Report

Date: Saturday, October 10, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 5 mph, Temperature ~83F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	185 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will remain on task at DU5 Transmitter building and DU8 for S28 AST demolition.

0800 – For Bldg 5309, the Maectite tote has been replenished with nearly a full tote onto the flatbed truck. At the midpoint of the north wall the process of calculating soil figures and applying reagent continues. The foundations and asphalt roadway create obstacles that slow the process down a bit. The old building must be worked around carefully since it is not structurally sound as indicated by the spalling concrete walls and columns.
Work has resumed at DU8 on S30 AST demolition work. This tank is making good headway to be pulled down and processed. Beams and sheets are separated to different piles in preparation for future hauling tasks when the steel is moved to the boneyard later this month.

1030 – The midsection of the north wall has been treated and mixed with Maectite and hydrant water. The Volvo 290 and rake attachment are used through out to adequately mix the materials to a uniform consistency. Move to the next eastern section for applying another several plots of Maectite.
NWDE has one skidsteer that has continued to pick up around DU3 for the many pallets of sandbags. To date the housing area pallets of sand bags are back at the NAF staging area. DU5 bags are currently being moved as well.

1200 – Lunch.

1245 – Layout and stake the R2 exterior wall plot areas that require Maectite treatment. Also mark out a few stakes to 30' as a visual for upcoming sand abutment import work that will occur this season.

1300 – Bldg 5309 hauling work is underway at a good rate. The treated soil is being moved using both A30 trucks and loading with the 290 excavator. Soils are deposited in the R2 Cell 1 and managed with the tracked Bobcat skidsteer.

1600 – Layout MIS confirmation sample points at the north wall plot areas
AST S30 is still progressing along as the shear tears the floating roof and wall materials down to size. The processing of the tank is over 40% since the roof, floating roof and access section of the side are stockpiled immediately east of the tank.

1730 – End of day.

Photographs:

Photo 01: Bldg 5309. View southwest. R2 Cell 1 import of treated soils.

Photo 02: Bldg 5309. View southwest. Maectite mixing with soil and hydrant water.

Photo 03: Bldg 5309. View southwest. End of day wraps up exporting soil in excavation limits.

Photo 04: S30 AST. End of day progress.

Photo 05: S30 AST. View northwest. End of the day progress.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/5/15	0	0	0	0	0	1395	0	0	1843.5
10/6/15	0	0	0	0	0	1395	0	0	1843.5
10/7/15	33	0	42	0	0	1470	3	103	1946.5
10/8/15	0	0	184.5	0	0	1654.5	22	253	2199.5
10/9/15	0	0	136	0	0	1790.5	16	186.5	2386
10/10/15	0	0	140.5	0	0	1931	16.5	193	2579
Total to Date	1378 soil gallons	40 walls	503 soil	10 walls	0 soil		174.5 loads		

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
10/8/15	0	0	0
10/9/15	0	0	0
10/10/15	0	0	0
Total to date- 0 loads			

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/5/15	0	0	0
10/6/15	0	0	0
10/7/15	0	0	0
10/8/15	0	0	0
10/9/15	0	0	0
10/10/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/5/15	0	0	0	0	0	0
10/6/15	0	0	0	0	0	0
10/7/15	0	0	¼ DU5	0	0	0
10/8/15	0	0	0	0	0	0
10/9/15	0	0	1	0	0	0
10/10/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

96 collection points / 3 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, October 12, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 15-24 mph, Temperature ~78F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	90 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will begin backfill of DU5 Transmitter building and resume DU8 for S30 AST demolition.

0730 – Soil treatment and excavation for Bldg 5309 wrapped up Saturday afternoon. Begin this morning with decon work of two A30 off road trucks, Bobcat skidsteer, Cat mini excavator and Volvo 290 excavator. Prep to import clean coral from the approved borrow source area.
Begin and complete Multi Incremental Sampling of 5309 MIS B plot for prior to backfill.
At DU8 the 290B with UP40 shear is getting serviced to change the blades. Processing the S28 and S30 steel tanks places routine wear and tear on the hardened bits.

0830 – Petrel Patrol begins to check the work area for birds prior to backfill tasks.
The cleaned Volvo excavator heads to the cargo pier to begin loading clean coral to be placed at Bldg 5309 Transmitter. Two A30 trucks are making nonstop round trips to dump into the 2' deep excavation area south of the transmitter building. As trucks are spotted backing up, the coral is placed and rough graded with the skidsteer. The target grade is 4-6" above original ground surface to adjust for settling.
A biological monitor is stationed at the Cargo pier to observe for animal sea life and machinery conflicts. Specifically Green Sea Turtles and Hawaiian Monk Seals are considered active in the area but to date have not approached the borrow source area.

1100 – At Bldg 5309 imported clean coral sand is progressing well. Areas that are asphalt hard surface are being covered with a 6" lift of sand. This keeps elevations consistent and also increases bird nesting habitat with a better suited ground cover.
At the S30 AST worksite in DU8 the shear continues processing steel sheets into manageable sizes for transport. The walls that currently are standing and tank floor create a work area for folding up steel debris on a firm surface.

1200 – Lunch.

1245 – Resume hauling clean coral from the Cargo pier beach to Bldg 5309. Backfill is being routed down the north side of the structure with the Bobcat continuing to rough in the sand as required.
Field verify a few DU9 details and structure to update the progressing scope of work list that has been ongoing.

1530 – At the Tank Farm, NWDE is moving from S30 AST back over to S28 to fold up the larger steel sheet materials in preparation for hauling activities. Steel will be moved this week to the staging area onto the boneyard's concrete pad.

1700 – Import backfill at Bldg 5309 Transmitter is wrapping up to be complete for coral volume. Finish grading and detail tight to the building remains to be completed and some minor pickup work. Palletized sandbags will also be moved out and staged at the NAF area.

1730 – End of day.

Photographs:

Photo 01: R2 Cell 2. View northeast. Elevation of soil is .93' to 1.18' below concrete wall in Cell 1&2.

Photo 02: Borrow Source. View west. Loading clean coral sand near the Fuel Pier.

Photo 03: Bldg 5309. View southwest. Backfill progress in the afternoon of 1' excavation areas.

Photo 04: S30 AST. View north. Steel processing progress for the former JP5 tank.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/9/15	0	0	136 [3] 155.5	0	0	1810	16	213	2412
10/10/15	0	0	140.5	0	0	1950.5	16.5	193	2605.5
10/12/15	0	0	0	0	0	1950.5	0	0	2605.5
Total to Date	1378 soil gallons	40 walls	522.5 soil	10 walls	0 soil		174.5 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Correction. 10/9/15 entered 136 gal Maectite for DU5 soils. Cross check and revise to 155.5 gal per Maectite Plot A-2D calculation sheet. Update Total gallons and yardage to R2.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
Total to date- 65 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/12/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/12/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

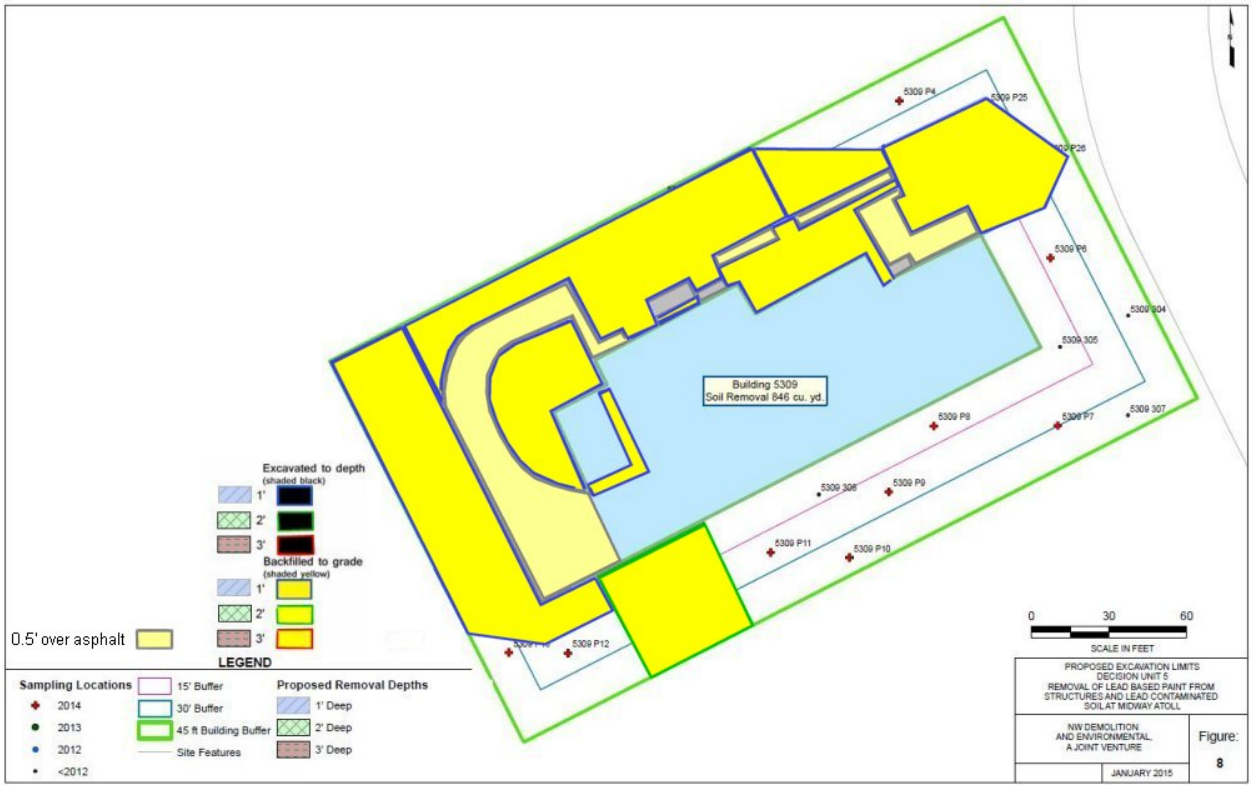
96 collection points / 3 Whirlpak samples collected today, 0 sample refused:

5309 MIS B 0-2”	5309 MIS B 0-2” Dup	5309 MIS B 0-2” Triplicate
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, October 13, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 13 mph, Temperature ~78F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will wrap up DU5 Transmitter building and begin hauling S28 & S30 tank scrap steel.

0730 – The work list for Bldg 5309 is nearing the end as final grading is performed this morning. The skidsteer is used to target the finish elevation for the new clean coral sand around the building. Clean up work of alcoves, stakes, ribbons, sandbags and miscellaneous debris is picked up and put away.

0830 – At the Tank Farm this morning begins the scrap steel being moved from DU8 to the boneyard recycling area. The shear is used to load the off road Volvo trucks with beams and folded sheets of tank wall materials. Hydrant water is used to abate dust and aid in controlling paint coatings that are loose on steel surfaces,
The loads of mild steel scrap are placed at the northern region of the yard, due west of the sea plane harbor ramp at the far west side. Material is setting atop the large concrete pad that makes up the boneyard lot.

1000 – The staged steel pile at tank S28 continues to be reduced as the repeating loads are moved to the recycling area. The short haul route makes round trips quick even at reduced speeds of carrying the irregular loads.
At DU8 errant paint materials that fall free of the steel is being picked up and collected. The chips that do not collect immediately within the work zone are readily identified and handpicked. The haul route is also checked for any loose materials from the loads.

1200 – Lunch.

1245 – NWDE installs a bucket and thumb on the second 290 excavator. At the growing recycle pile, the excavator is used to pick and place steel up to keep adequate staging room for the incoming materials from S28 AST.
Paint chips observed at the boneyard are being collected as stacking tasks continue.

1500 – Excavator #2 tracks out to S28 to process steel sheets to the appropriate size for hauling. The 290B with UP40 shear moves off S28 and begins on S30 to load out steel materials. This AST walls, roof and floating roof will also be moved to the same boneyard pile.

1700 – Loads of steel from S30 remain steady going out of DU8. By days end S28 steel pile is 70% moved and S30 40% moved. S28 is approximately 70% pulled down and processed with short walls and floor plate remaining. S30 is approximately 45% down with a high wall section left and floor plate intact for a working area.

1730 – End of day.

Photographs:

Photo 01: NAF Staging Area. Palletized sandbags from DU3 & DU5 shade cloth anchoring.

Photo 02: Bldg 5309. View west. Final grading of the clean backfill.

Photo 03: S28 AST. Processed scrap steel being hauled to the bone yard staging area.

Photo 04: Boneyard. View north. Stockpiling steel from DU8.

Photo 05: S28 AST. View east. End of the day progress removing stockpiled steel.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/9/15	0	0	136 [3] 155.5	0	0	1810	16	213	2412
10/10/15	0	0	140.5	0	0	1950.5	16.5	193	2605.5
10/12/15	0	0	0	0	0	1950.5	0	0	2605.5
10/13/15	0	0	0	0	0	1950.5	0	0	2605.5
Total to Date	1378 soil gallons	40 walls	522.5 soil	10 walls	0 soil		174.5 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Correction. 10/9/15 entered 136 gal Maectite for DU5 soils. Cross check and revise to 155.5 gal per Maectite Plot A-2D calculation sheet. Update Total gallons and yardage to R2.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
Total to date- 65 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/12/15	0	0	0
10/13/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/12/15	0	0	0	0	0	0
10/13/15	0	0	37 -S28/S30	0	0	0

Table 4. Soil Sample Collection-

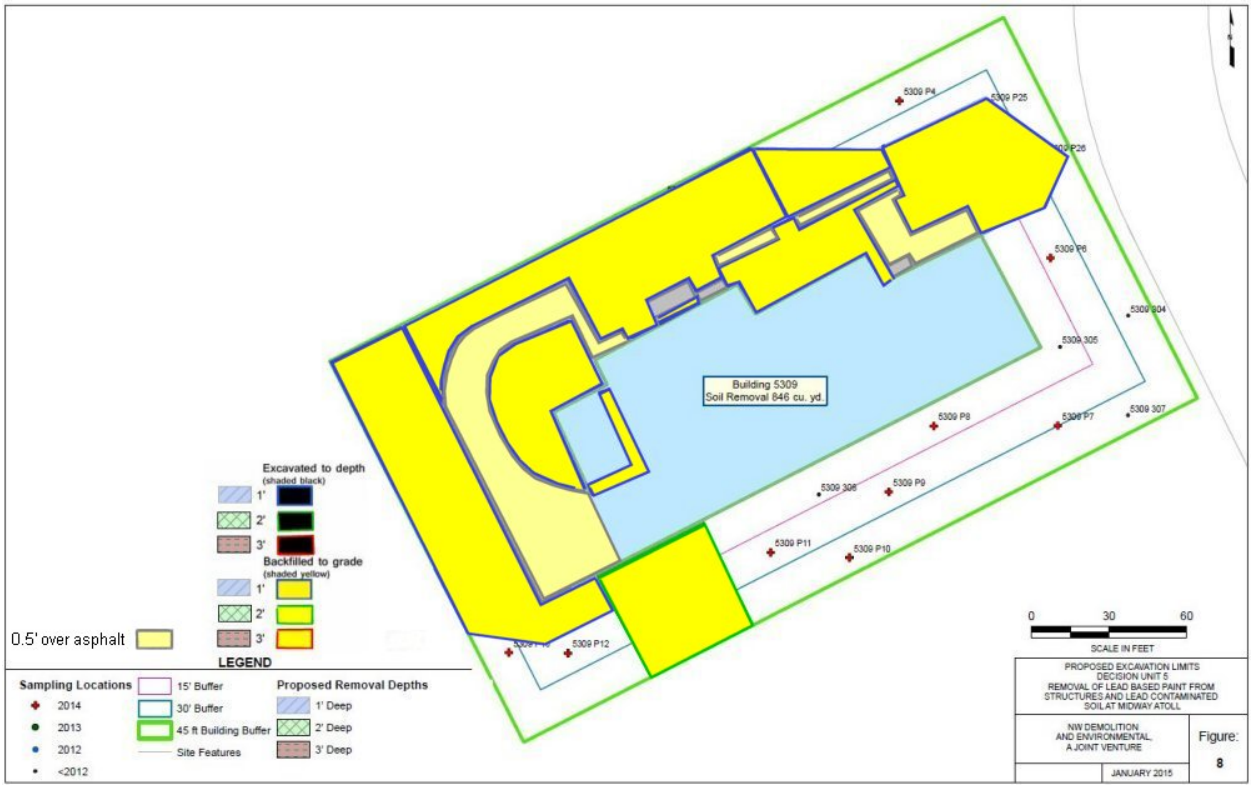
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, October 14, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 9 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue hauling S28 & S30 tank steel and begin JP5 pipe run disassembly.

0800 – Work tasks for DU8 remain active as scrap steel keeps being loaded at S30. The loads are consistently placed at the boneyard after being wetted with hydrant water to aid in dust and chip control. The available space for staging recyclable steel is good with access around the entire pile for dumping loads.

0900 - Both Volvo excavators are running and either loading or shearing steel in their work areas. The S30 steel pile is approximately 50% hauled out with loads continuing non-stop.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1100 – Additional detail for DU9 Bldg 200. Field verify size and materials of the electrical shed.

1200 – Lunch.

1245 – NWDE is starting the task to unbolt the steel fuel piping that runs from the fuel pier to AST S28, S30 and inland pump station. A ¼ tote, buckets and spill kit are available to begin the task while anticipating liquids in pipes and valve.
Beginning at the valve manifold between S28 and S30, flanges are carefully unbolted and verified for liquids prior to full dis-assembly of the flange. The first flange of the north pipe run shows signs of fuel when initially unbolted. This is re-tightened and made note of to be addressed when the POL vac truck is brought in to collect a batch of liquids.
Fittings, valves and pipe spool sections at a higher elevation are opened and removed with no liquids. The goal is to gain access that the vac truck will be able to use to pull out liquid from the top of the piping vs collecting fluids in the partial tote pan.

1400 – At DU8, stake out square plot for S28 and S30 with the HDPE liner extents within the former berm area. Generally the plot size is 80' from four sides of the round 100' diameter AST. This initial stake out is in preparation for soil sampling of DU8.

1600 – Manifold piping work has reached the third valve from the west side to be unbolted. Once pipe fittings are removed the pipe is visually inspected for liquid. The first two valves had surface corrosion and signs of residual fuel on the inner pipe walls but no free liquid/product. Once verified a new steel blind flange and gasket is added to cap the vertical stub up pipe from the below grade pipe run.

1700 – As the day starts to wrap up S28 steel pile is 100% moved and S30 100% moved. S28 AST is approximately 80% pulled down and processed with short walls and floor plate remaining. S30 is approximately 50% down with a high wall section left and floor plate intact for a working area. The shear continues to tear steel out and begin stacking scrap steel up again near AST S28.

1730 – End of day.

Photographs:

Photo 01: Boneyard. View north. Repeated placement of S28 and S30 scrap steel.

Photo 02: S30. View west. Shear processing of steel for export out of DU8.

Photo 03: JP5 Piping Manifold. View northeast. Unbolting flanges for verifying potential liquids.

Photo 04: JP5 Piping Manifold. View south. Removal of valve and pipe fittings to access potential liquids

Photo 05: S30 AST (L). View northwest. End of the day progress for S30 and S28.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/9/15	0	0	136 [3] 155.5	0	0	1810	16	213	2412
10/10/15	0	0	140.5	0	0	1950.5	16.5	193	2605.5
10/12/15	0	0	0	0	0	1950.5	0	0	2605.5
10/13/15	0	0	0	0	0	1950.5	0	0	2605.5
10/14/15	0	0	0	0	0	1950.5	0	0	2605.5
Total to Date	1378 soil gallons	40 walls	522.5 soil	10 walls	0 soil		174.5 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Correction. 10/9/15 entered 136 gal Maectite for DU5 soils. Cross check and revise to 155.5 gal per Maectite Plot A-2D calculation sheet. Update Total gallons and yardage to R2.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
Total to date- 65 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/12/15	0	0	0
10/13/15	0	0	0
10/14/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/12/15	0	0	0	0	0	0
10/13/15	0	0	37 -S28/S30	0	0	0
10/14/15	0	0	39 –S28/S30	0	0	0

Table 4. Soil Sample Collection-

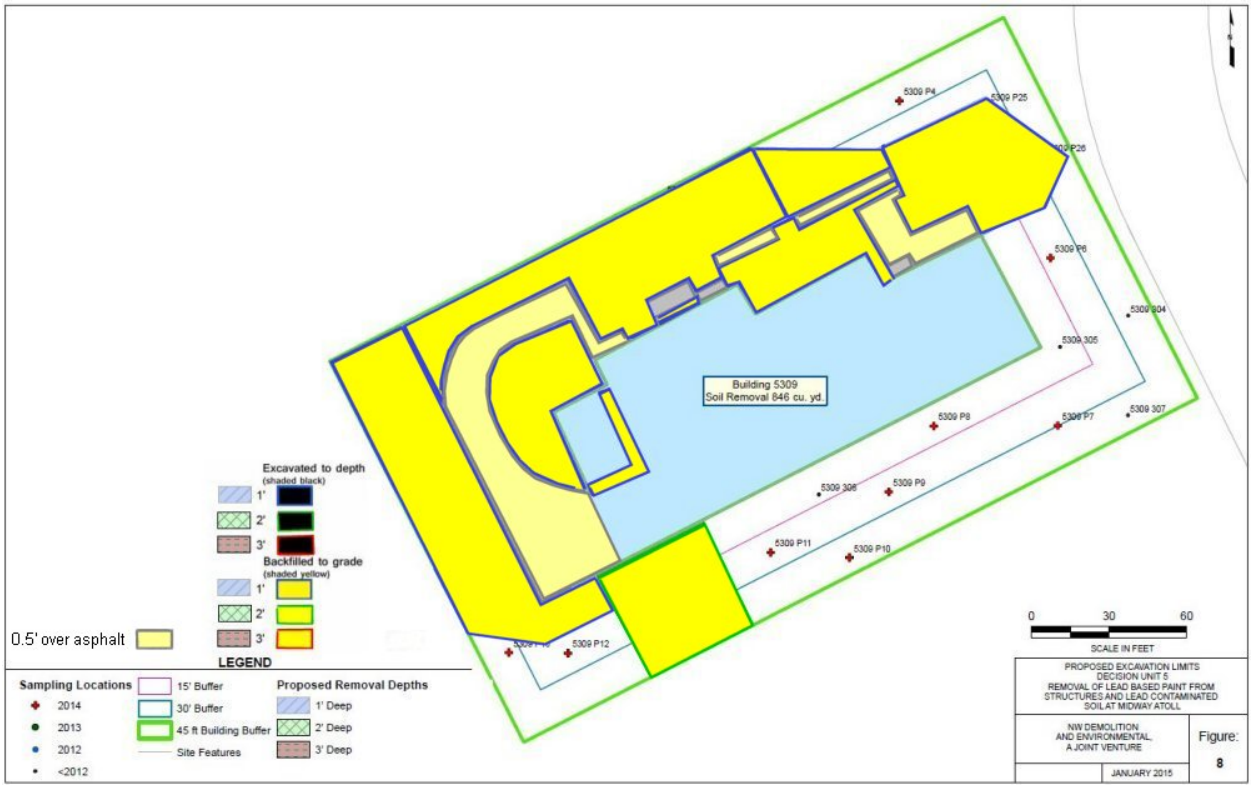
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, October 15, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 7 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	288 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will resume S28 & S30 tank demolition and JP5 pipe manifold disassembly.

0800 – At the Tank Farm piping manifold, more 10" flanges are being unbolted and opened up to check for fuel in the lines. The horizontal header that is common to S28, S29 & S30 has only ½" of fuel in the 24' length. The old JP5 is collected in a bucket when the flange is opened.
At AST S28 steel processed yesterday afternoon and stockpiled in DU8 is being loaded into the A30 trucks. Steel continues to be hauled to the recycle area of the nearby boneyard.
The Volvo excavator with UP40 shear is being maintained by servicing the shear blades. Routine service is necessary due to the extreme forces exerted while shearing and tearing the large metal sheets.

0900 – As manifold flanges are loosened and forced apart, the pipe mounts at concrete pedestals are also being unbolted to free up piping sections. Not all threaded fasteners and flanges come apart easily after years of service, corrosion and layers of paint.
The 12" and 10" pipe runs to S28 after entering the berm are inspected for drain provisions. Found are bottom taps with valves that were buried below the ground surface. Hand dig the valves and piping to expose their location and plan to use them in the future when the long pipe run is removed. These will allow draining the pipe of any liquids prior to shearing the pipes. At S30 pipe inside the berm another set of bottom tap drains are discovered and dug out for access.

1000 – S28 tank steel is still being loaded and hauled out of DU8. Hydrant water is being used for dust abatement and paint chip control at the loading site.
AST S30 has a higher section of wall that is being torn down with the shear as progress continues. When the metal sheet is downsized, it is then folded up to an acceptable dimension to be loaded into the Volvo truck.

1200 – Lunch.

1245 – At the 10" and 12" manifold connections the smaller 1.5" and 1" lines are being opened up and unthreaded to access the pipes for liquids. Some sections are dry but over half the fittings indicate wet or accumulated JP5 fuel. Care is taken to collect liquids with buckets and absorbent pads. Areas under large 10"/12" flanges close to the ground are shoveled out to fit the bucket into position prior to popping the flange open. The stainless steel expansion bellows east of the manifold is unbolted to prepare for removal of the two header sections.
A small 1.5" process line is running from the manifold valves individual pressure relief valves back to near the S30 tank wall. This long pipe run is completely full of JP5 fuel and drained into containers.
Fuel collected in buckets is carefully transferred to the onsite DOT rated 55 gallon drum that is setting on 6mil poly. Fuel collected will be processed by DBSI as required.

1330 – The 290 Volvo is moved to the manifold piping to do the heavy lifting of removing the stainless steel TruSeal 10" and 12" valves. The tight quarters requires lifting the valves and piping spools out since the Bobcat skidsteer is not able to access through the maze of stick up pipes.
The third leg in from the west is a 10" line that use to feed S29 AST that has been removed years ago. The existing flange at waist level has signs of ample fuel below the 90 degree elbow. Alter the point of

disassembly to leave the elbow in place and remove the valve only while collecting liquids in containers. Once the 10” valve is removed the vertical 10” pipe is noted to be full with JP5. An orange indication line is spray painted on the pipe elbow. It appears that the 10” line goes down and under the access road and stubs into the former S29 berm. Inside the berm is a 10” rising stem gate valve. Indications are that this section of piping is storing a large volume of fuel. DBSI will be notified of the detail and for now the pipe is sealed using a new gasket and steel blind flange at the manifold connection.
Note that as flange connections are removed the existing gasket material is inspected for materials in use. No ACM type gaskets are found at the flange sealing surfaces.

1700 – The day’s progress is S28 AST being approximately 85% pulled down and processed with minimal short walls and full floor plate remaining. S30 is approximately 70% down with a medium height wall section left and floor plate intact for a working area.

1730 – End of day.

Photographs:

Photo 01: S28 Piping inside the berm. Lower tap drains found and uncovered.

Photo 02: JP5 Piping Manifold. View east. Progress of unbolting flanges for verifying potential liquids.

Photo 03: JP5 Piping Manifold. View northeast. JP5 mark indicating fuel liquid to leg S29 AST.

Photo 04: S29 inside berm. View north. Valve that appears to be capturing fuel from berm to manifold.

Photo 05: S28 AST. View northwest. Afternoon progress of tank demolition.

Photo 06: S30 AST. View north. End of the day wall height for the former 2.1 million gallon AST.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/9/15	0	0	136 [3] 155.5	0	0	1810	16	213	2412
10/10/15	0	0	140.5	0	0	1950.5	16.5	193	2605.5
10/12/15	0	0	0	0	0	1950.5	0	0	2605.5
10/13/15	0	0	0	0	0	1950.5	0	0	2605.5
10/14/15	0	0	0	0	0	1950.5	0	0	2605.5
10/15/15	0	0	0	0	0	1950.5	0	0	2605.5
Total to Date	1378 soil gallons	40 walls	522.5 soil	10 walls	0 soil		174.5 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Correction. 10/9/15 entered 136 gal Maectite for DU5 soils. Cross check and revise to 155.5 gal per Maectite Plot A-2D calculation sheet. Update Total gallons and yardage to R2.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
Total to date- 65 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/12/15	0	0	0
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/12/15	0	0	0	0	0	0
10/13/15	0	0	37 -S28/S30	0	0	0
10/14/15	0	0	39 -S28/S30	0	0	0
10/15/15	0	0	14 -S28/S30	0	0	0

Table 4. Soil Sample Collection-

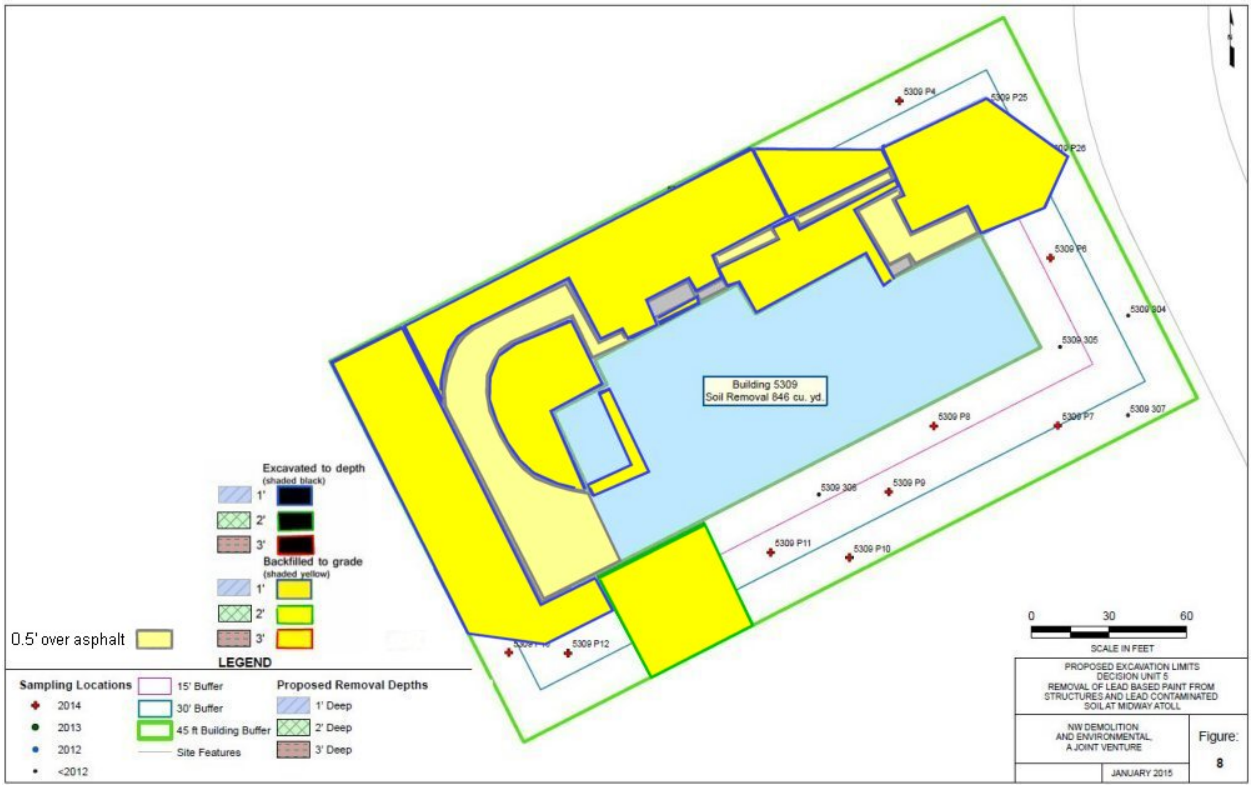
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Friday, October 16, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 4 mph, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue shear work at S28. DU5 R2 soil treatment will also begin today.

0800 – NWDE is setting up at the northwest corner of the R2 5303. This treatment area is exterior of the R2 walls and is 45' out and 110' in length. The layout is per Figure 13 and includes 6" Maectite application to the 30' buffer, 2' treatment at 30' to 45' buffer. Surface treatment will be left in place and a shade cloth barrier will remain permanently atop this 30' x 110'x 0.5' plot. The 15' x 110' x 2' depth plot will be treated and excavated to the R2.
Sandbags and shade cloth are being picked up. Hydrant fire hose is connected and the chemical application equipment is prepared.

0830 – At S30 AST the lower section of tank wall is being cut up. This is the last section of the vertical walls that need processed. The floor plate still remains as a work pad for the shearing activities. One Volvo A30 truck is being loaded and makes trips to dump off loads of steel.

0930 – The R2 plot from 0-30' buffer is typical sandy soil. The 30' to 45' buffer soil has an upper 1' layer that is compacted and binding sand with a darker color. It abuts the asphalt and expected to be a road base. The Volvo rake attachment is used to pre scarify the soil and break up the hard pack prior to Maectite application.
Chemical reagent is applied at the approved target rate of .75 gallons per cubic yard evenly across the staked plots. Hydrant water is added and the mini excavator is used on the 6" lift treatment area. The sandy soils and liquids are mixed to a uniform consistency. Once the 6" area is treated, a rough grade is achieved and the soils are left in place. This will be covered with the noted demarcation shade cloth layer prior to buttress sand being staged against the R2 exterior wall.

1045 – DBSI is working with NWDE to remove the previously noted pipe float cylinders from S28 and S30. These steel foam filled cylinders had residual JP5 fuel inside and will be disposed of properly by DBSI.

1100 – The work to apply Maectite and adequately mix the soils is nearly complete for the first lift of the 2' area. One A30 truck will be loaded using the 290B excavator and flat edged bucket. Soils will go immediately into the R2 Cell 1.
Inside the R2 the Bobcat skidsteer has been keeping rough grade achieved for previously dumped materials. The elevation tends to be brought up in large even lifts of soil across the square footage rather than deep lifts in condensed areas.

1200 – Lunch.

1400 – NWDE E.White brings attention to the S28 and S30 tanks floor bottom. The underside of the steel tank floor has a semi rigid black liner affixed to the bare steel. This is a type of corrosion protection since the steel doesn't appear to be painted. The black liner separates the mild steel from contacting the earth. This black material is approximately 3/16" to 1/4" thick and flexes when bent. A sample is collected for testing.

1615 – At the R2 northwest excavation area the limits have been reached. Prepare for MIS sampling of the two depth treatment plots.

1700 – The day's progress is S28 AST being approximately 85% pulled down and processed with minimal short walls and full floor plate remaining. S30 is approximately 95% down with only the floor plate remaining to be processed.

1730 – MIS sampling wraps up. The northwest R2 plot is ready for backfill. End of day.

Photographs:

Photo 01: Boneyard. View north. Progress of the growing scrap steel pile from DU8.

Photo 02: Bldg 5303 R2. View east. Maectite mixing of subplots at the northwest corner of R2 Cell 1.

Photo 03: Bldg 5303 R2. View southeast. MIS confirmation collection of excavation limits.

Photo 04: S30 AST. View northwest. Afternoon progress of walls being processed.

Photo 05: S30 AST. Underside of tank floor plate coating.

Photo 06: S30 AST. View north. End of the day with floor plate remaining.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/12/15	0	0	0	0	0	1950.5	0	0	2605.5
10/13/15	0	0	0	0	0	1950.5	0	0	2605.5
10/14/15	0	0	0	0	0	1950.5	0	0	2605.5
10/15/15	0	0	0	0	0	1950.5	0	0	2605.5
10/16/15	0	0	0	0	0	2085.5	8.25	122	2727.5
Total to Date	1378 soil gallons	40 walls	657.5 soil	10 walls	0 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Date /Loads		DU5 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
Total to date- 65 loads			

Date /Loads		DU8 Clean Backfill Totals[2]	
		Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/12/15	0	0	0
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
Total to date- 0 loads			

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/12/15	0	0	0	0	0	0
10/13/15	0	0	37 -S28/S30	0	0	0
10/14/15	0	0	39 -S28/S30	0	0	0
10/15/15	0	0	14 -S28/S30	0	0	0
10/16/15	0	0	10 -S30	0	0	0

Table 4. Soil Sample Collection-

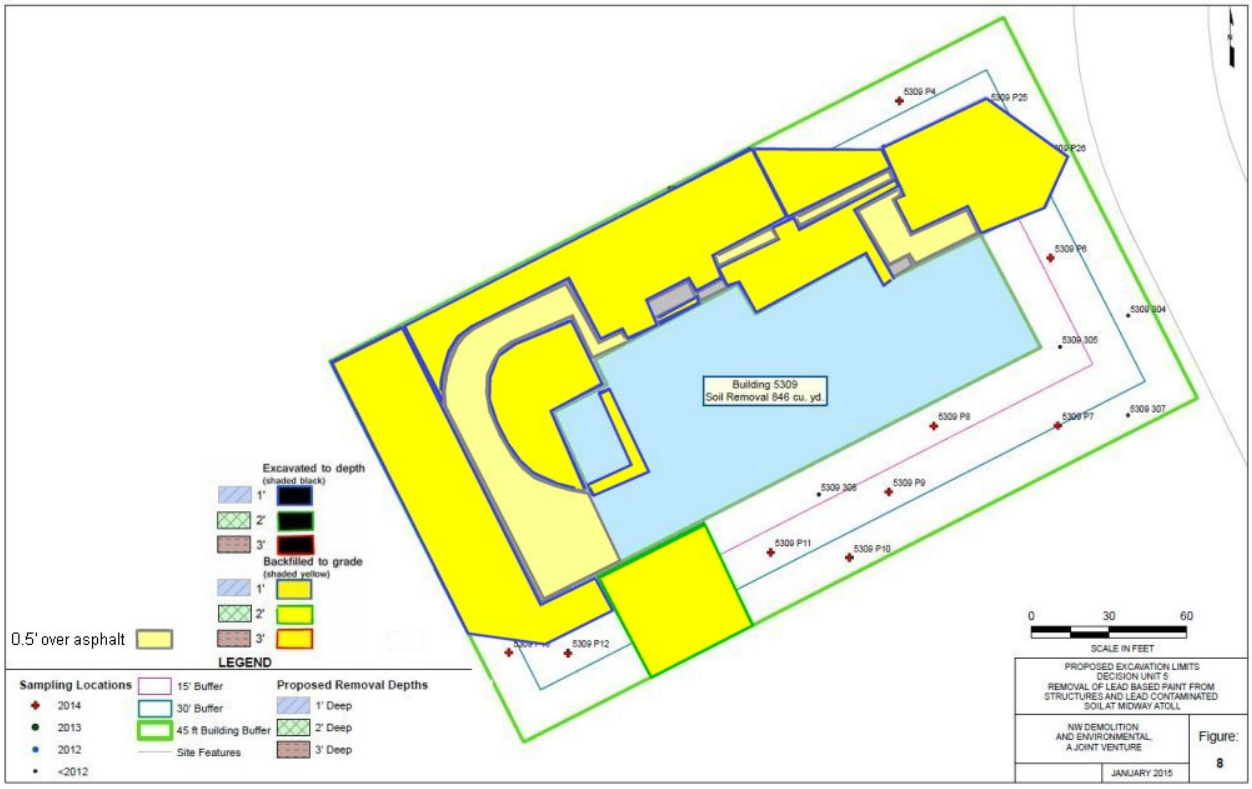
192 collection points / 6 Whirlpak samples collected today, 0 sample refused:

R2 MIS A NW 0-2”	R2 MIS A NW 0-2” DUP	R2 MIS A NW 0-2” Triplicate
R2 MIS B NW 0-2”	R2 MIS B NW 0-2” DUP	R2 MIS B NW 0-2” Triplicate

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, October 17, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 8 mph, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	153 gallons	10/16/15
Diesel	100 gallons	10/17/15
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue shear work at S28. Backfill tasks at DU5 R2 will begin.

0700 – NWDE is setting up at the northwest corner of the R2 5303. The 6" depth treatment area is being prepared for backfill by placing the shade cloth demarcation layer directly on top of the limits area. At the north vertical edge that meets the deeper 2' excavation the shade cloth is extended down the full 2' to the bottom of the grade. A demarcation layer for the 2' excavation plot is not required and left as is ready for backfill.
The Volvo A30 trucks are decon'd and head to the north cargo pier borrow source area. Clean coral sand will be loaded and hauled to backfill the 15' x 110' x 2' excavation limits of the NE R2 plot.
A biological monitor is positioned at the borrow source area to spot for birds and sea life near the work zone. If conflicts or concerns arise from animals being too close to the borrow source the operations will be halted and concerns addressed. To date this season no conflicts have occurred.

0815 – The Volvo excavator with UP40 shear is back to work on S28 AST. The remaining short walls are being removed and processed leaving the floor plate in place. Steel is folded into manageable sized pieces suitable for hauling. Steel is stockpiled near the S28 tank for now.
At S30 tank floor, small debris is being picked up and bagged to contain the materials for future processing.

1000 – At the R2 northwest excavation limits the 2' depth area has been backfilled with 135 cuyds of clean coral. Begin the task of stockpiling sand on top of the demarcation shade cloth plot and place large volumes of sand up to the top of the R2 CMU block wall. This stockpiling of clean sand will buttress the exterior north wall of the R2. Importing hundreds of yards of coral to the outside walls of the R2 is goal driven task work in preparation for the final R2 cover grade next season.
Two A30 trucks repeat round trips from the Cargo Pier to the R2. As loads are dumped at the wall a spotter is used to aid placement.
The R2 piping valves that tie into each cell and are no longer in use have yellow valve keys that stick up through steel plate covers. The valve can vault is 20" in diameter x 48" deep. The keys and plate are removed at each position and filled in with clean sand prior to the buttress being continued. This eliminates the steel plates from rusting out and causing a limited sink hole.

1200 – Lunch.

1300 – S28 walls have been removed and processed. The floor plate remains and steel stockpiled ready to haul out to the boneyard.
Hauling sand to the R2 buttress of the north wall continues throughout the afternoon. By days end the north wall coral placement is nearing the northwest end of the R2.

1700 – The day's progress is S28 AST approximately 95% pulled down with only the floor plate remaining to be processed. S30 is approximately 95% down with only the floor plate remaining to be processed.

1730 – End of day.

Photographs:

Photo 01: Bldg 5303 R2. View west. Placement of demarcation layer atop the 6" treatment plot.

Photo 02: Bldg 5303 R2. View south. Clean coral sand placement at R2 Cell 1 wall.

Photo 03: Bldg 5303 R2. View east. Clean coral buttress atop the demarcation layer at R2 NE corner.

Photo 04: Bldg 5303 R2. View west. Afternoon progress of buttress being imported to north wall.

Photo 05: S30 AST. View north. Bag up debris on the tank floor plate.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/12/15	0	0	0	0	0	1950.5	0	0	2605.5
10/13/15	0	0	0	0	0	1950.5	0	0	2605.5
10/14/15	0	0	0	0	0	1950.5	0	0	2605.5
10/15/15	0	0	0	0	0	1950.5	0	0	2605.5
10/16/15	0	0	135	0	0	2085.5	8.25	122	2727.5
10/17/15	0	0	0	0	0	2085.5	0	0	2727.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	0 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. -

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. -

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/12/15	0	0	0
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/17/15	47	705	705
Total to date- 47 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~15'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 705 cuyds

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/12/15	0	0	0	0	0	0
10/13/15	0	0	37 -S28/S30	0	0	0
10/14/15	0	0	39 -S28/S30	0	0	0
10/15/15	0	0	14 -S28/S30	0	0	0
10/16/15	0	0	10 -S30	0	0	0
10/17/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

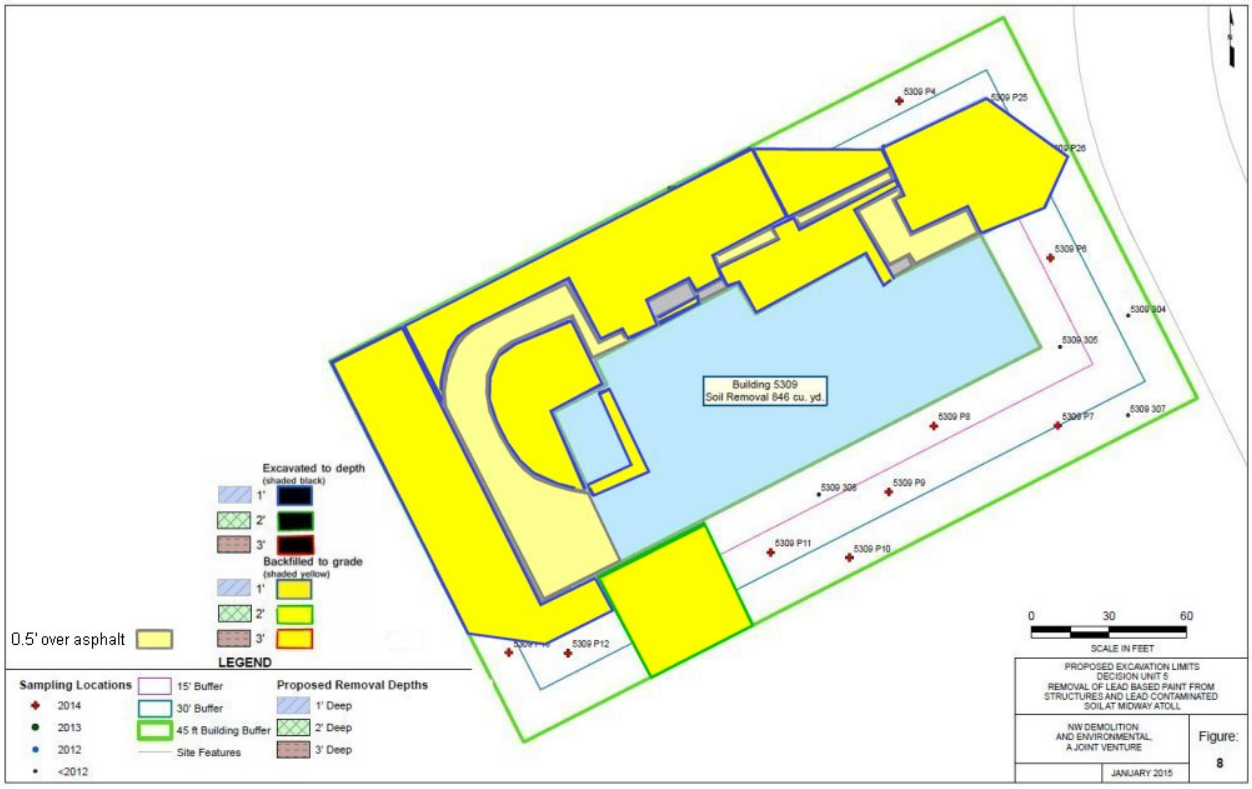
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, October 19, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 9 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Eric Moore	DBSI PM
Dan Clark	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	140 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue DU5 R2 coral buttress material import and DU8 piping removal.

0730 – The haul trucks are resuming work to move clean coral sand from the borrow source area and placing it at the R2 exterior walls. The focus area is the southern wall beginning on the southeast corner and working towards the west. A biological monitor is stationed at the beach for excavation work.
Two plot sections at the southeast region of the wall have a shade cloth demarcation layer set atop the grade for separation of existing soil and the clean buttress materials. As trucks access this area the materials are dumped and roughed in with the bobcat to make a fill road across the uneven terrain. Lifts are approximately 2.5' and rolled in under the weight of the loaded Volvo trucks as they back up to drop sand.
An active utility water line main is marked parallel 15' south of the R2 wall. This line feeds from the three 4 million gallon R1 catchment rainwater tanks and feeds to the island water treatment plant. At the southwest corner of the R2 the water main has two valves with approximately 3' of burial. These valves will need to remain accessible by extending the valve can up and incorporating the cast collar and vault lid into the final R2 surface design. Currently the valve can extension material is 6" sch40 PVC. Alike material will be used to raise the access up to a suitable elevation as buttress fill is brought in.

0830 – NWDE has workers beginning to dismantle the 6" fuel piping at AST 404. The flanges are unbolted and liquids collected in a bucket, then transferred to the steel 55 gallon drum for temporary storage. Once all liquids are collected the drums will be handled by DBSI for proper disposal.
Flanges tend to come apart hard as the old bolt hardware and layers of paint slow down the process.

1000 – The stockpile of clean sand continues to be moved in primarily on the south wall area. Occasionally loads are placed on the east wall, southeast corner filling in the open area. This will continue on the east side but remain south of the lime mixing and electrical vault areas slated for future demo.

1130 – At AST 404 the horizontal run of piping that feeds the west end of the tank had approximately 14 gallons of JP5 that required collection though opened flanges. Drain ports tend to not be installed on most all above ground piping in DU8.
At the south R2 wall the rough in road continues to be pushed in with loads of coral. The CMU wall height average is 5.7' above the existing grade prior to placing sand.

1200 – Lunch.

1345 – Coral hauled to the R2 south exterior wall has made it over half way down the length of the structure. Current width is less than 30' wide as it is staked out.
NWDE operator notices signs of water appearing at the southeast corner of the R2. DBSI is notified and it is determined that the 8" water main pipe has failed under the weight of the Volvo trucks driving over and near it. The top of the transite pipe ends up being only 0.68' below existing grade, yet covered with 2.5' of clean coral as the access road was pushed in. Another factor too is that a concrete footing was directly under the transite pipe and created a shear point when the pipe would deflect. The pipe is fractured perpendicular across most of the pipe except the bottom is angular for a few inches.

DBSI facilities crew is onsite to excavate and repair the water line. The location is 15.22' directly south of the R2 southeast corner. Temporary repair work is made using a two part purpose built Powerseal™ stainless clamp and sheet of rolled sealant material. The process takes two attempts to get a successful leak repair.

1630 – Water supply that is pretreatment of the water plant has been restored. A long term repair option is being considered by DBSI to address the section of fractured pipe. NWDE also considers the future methods of placing clean sand to abut the south wall and not damaging the pipe run.

DU8 tank piping for AST 404, 406 & 407 have mostly been drained of liquids and sheared loose of the tanks.
Clean coral sand has steadily been hauled into the north wall this afternoon and broaden the existing buttress from 15' to 30' wide. This builds the yardage of the north wall by an additional 390cuyd from yesterday.

1730 – End of day.

Photographs:

Photo 01: Bldg 5303 R2. View west. Clean coral placement south of southern wall.

Photo 02: DU8 AST 406. View north. Fuel pipes drained and disassembled.

Photo 03: Bldg 5303 R2. 10” OD transite water main fracture with concrete footing underneath.

Photo 04: Bldg 5303 R2. View north. Water main repair. 6” below native grade and 15.22’ south of R2.

Photo 05: Bldg 5303 R2. View southeast. Buttress stockpile grows to ~30 wide.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/19/15	0	0	0	0	0	2085.5	0	0	2727.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	0 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/19/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/17/15	47	705	705
10/19/15	56	840	1545
Total to date- 103 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 0

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/19/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

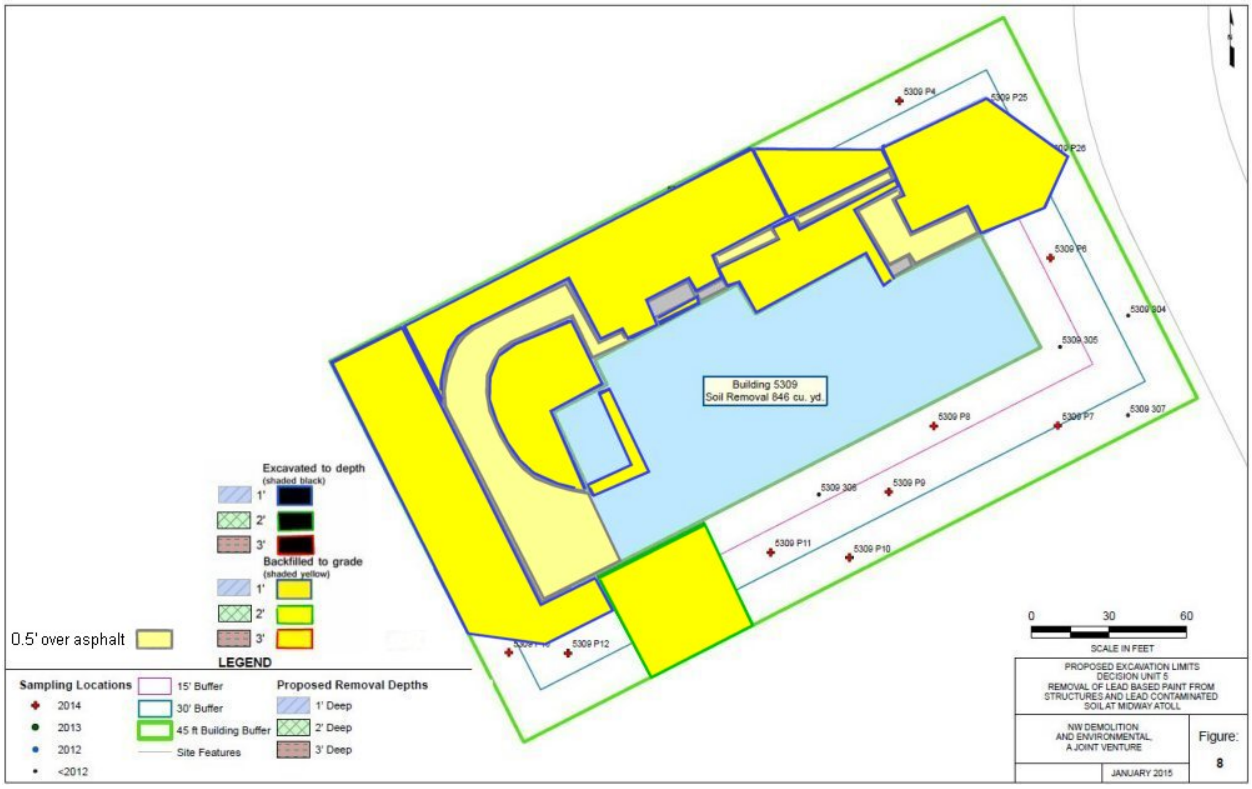
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, October 20, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 18 mph, Temperature ~82F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	169 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will begin shearing the last DU8 ASTs and continue hauling clean coral to stockpile at the R2.

0730 – Prepare for demolition of three remaining abandon fuel tanks. The piping has been drained of fuel and tanks verified to be free of liquids. The shear will open up the steel vessels and reduce sheets and piping into manageable pieces suited for hauling.
To date approximately 68 gallons of JP5 fuel has been collected from the Tank Farm piping. Liquids are stored in two 55 gallon DOT drums. Pipe drain work is not completely wrapped up yet and expect some liquids when opening up flanges inside the berms and possibly near the fuel pier connections. Fuel collected per flange range from ½ to 5 gallons typically and a maximum of 14 gallons.

0800 – Part of the NWDE crew is picking up debris and bagged materials at S28 and S30. This material is contained in 6mil poly bags and staged at the NAF area in a shipping container and will be disposed of appropriately in the future.

1100 – AST 404 is sheared, processed and loaded out into the haul trucks. Steel is moved to the boneyard stockpile. Include 6” piping from the former tank connections to the scrap pile as well.

1200 – Lunch.

1300 – At the R2 Cell 1 the section is being closed up for the season. Shade cloth is pulled out evenly and sandbagged into place. Edges are overlapped and weighted with an adequate number of black sandbags to keep the materials secure over the winter.
In preparation for resuming to haul clean coral to the R2 buttress, the haul trucks are decon’d. From the borrow source area loads of coral are hauled and placed at the R2’s west wall, southwest region. A progression of loads make three rows and target approximately 30’ out from the wall. The highest coral elevation is even with the top of the R2 CMU block. The buttress and stockpile will also serve as a ramp to access Cell 4 for next season’s work.

1530 – The former fuel tanks are steadily being sheared and folded up. Steel saddle supports that tie into concrete piers are removed. The concrete tends to break apart easily as rebar and J-bolts pull out. The concrete is left in place for now since the HDPE liner materials are anchored to the base of each concrete.

1700 – Wrapping up the afternoon the three AST tanks 404, 406 & 407 are down. Two of the tanks are stockpiled and will be loaded out and hauled soon to the boneyard.
S28 and S30 tank floor plates still remain and are expected to be processed this week for placement at the boneyard too.

1730 – End of day.

Photographs:

Photo 01: DU8 AST 404. View northwest. Begin demolition of the 15K to 24K gallon fuel tanks.

Photo 02: DU8 AST 406. View north. Progress shear work of 406 AST.

Photo 03: Bldg 5303 R2 Cell 1. View west. Interim shade cloth cover being placed for the season.

Photo 04: Cargo Pier. View east. Borrow source area exported to date.

Photo 05: Bldg 5303 R2 Cell 4. View southeast. Buttress west wall with clean coral.

Photo 06: Bldg 5303 R2. View northeast. Clean coral placement at west wall.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/19/15	0	0	0	0	0	2085.5	0	0	2727.5
10/20/15	0	0	0	0	0	2085.5	0	0	2727.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	0 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/19/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/17/15	47	705	705
10/19/15	56	840	1545
10/20/15	23	345	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/19/15	0	0	0	0	0	0
10/20/15	0	0	4 –AST404	0	0	0

Table 4. Soil Sample Collection-

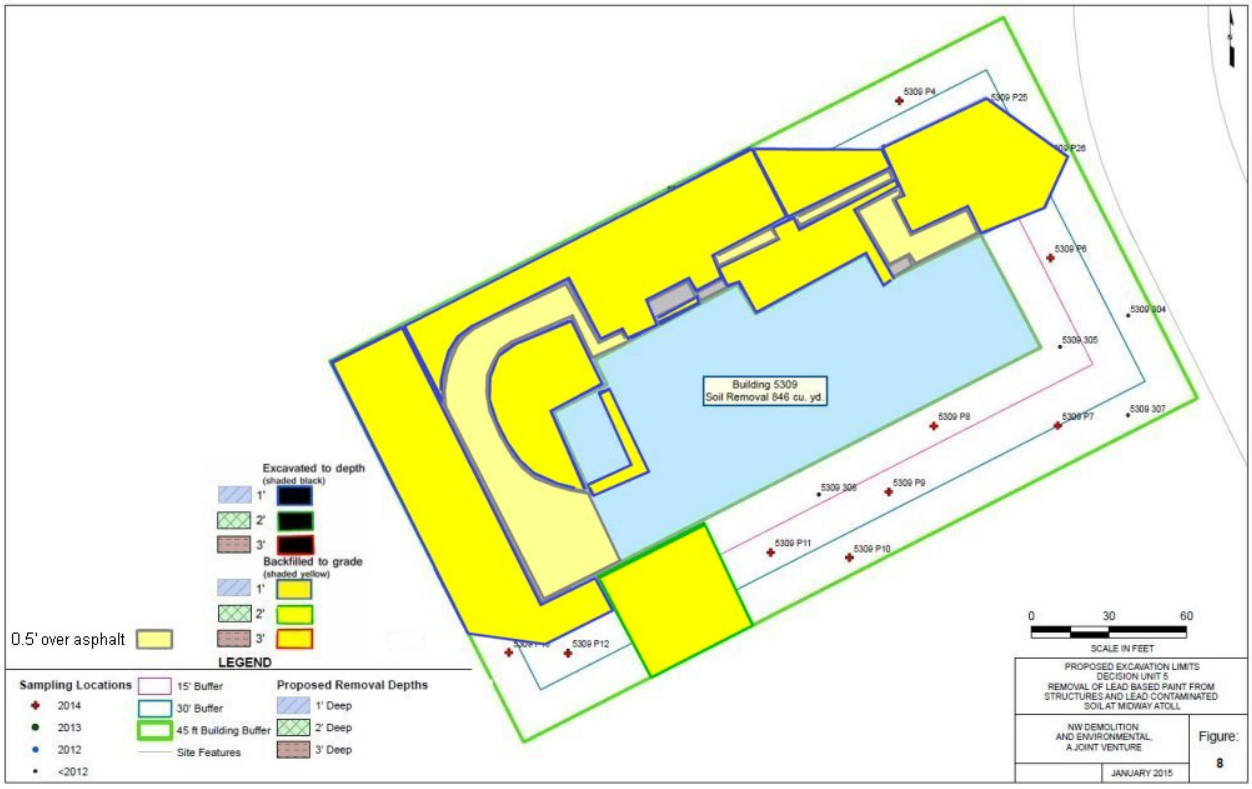
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Wednesday, October 21, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 12 mph, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will begin shearing the floor plate of S30 AST.

0730 – At DU8 the floor pan for former 2.1 million gallon S30 tank is being processed into suitable sizes for hauling to the boneyard. The shear attachment is starting the cut and then tearing the sheets to smaller rectangular sections. These are then folded up and loaded into an off road truck.

The fuel pipe run from the tank farm to the fuel pier is being unbolted from the concrete pedestal supports. This will prepare the pipes to be sheared up this week and sent to the steel scrap pile. This morning's goal is to unbolt the pipe flanges, check for remaining liquids and identify any concerns.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1100 – At the fuel pier the piping to remove is inspected for liquids. An intermingled fire hydrant water service also runs out the pier's length parallel to the fuel pipes. This fire line is identified by the hose connection fittings, valves, backflow preventer and that it is currently leaking slightly through old rusted fittings. Contact DBSI regarding the slight water leak. They verify that the first above ground valve is closed but bypasses slightly. They will blind flange the line in the future once NWDE work is completed. This water line will be left in place and the surrounding fuel piping removed up to the first valves at the fuel pier.

1200 – Lunch.

1300 – At S30 the mini excavator and 4' wide straight edge bucket is used to scrape soil and paint debris into medium sized piles for upcoming Maectite treatment. The materials are pulled carefully off the shallow HDPE liner material. The liner is left intact and connected to the concrete AST base ring.

1500 – The S30 tank floor plate continues to be process and folded into dense wraps for hauling. The black asphalt coating that exists stuck to the floor plate bottom is left adhered to the steel. Schnitzer Steel advises that the asphalt coating is acceptable for recycling purposes.

1600 – Steel pipe runs from S30 to the former manifold are being sheared into sections for hauling. The 10" and 12" pipe is loaded up and moved to the scrap steel pile. Of the materials hauled out today most loads are S30 floor plate, a few were AST 407 & 406 and a couple in the afternoon are S30 large piping sections.
NWDE is picking up more small debris, paint chips and mixed soil at S30 pad. Loaded 6mil poly bags will be stockpiled at the NAF storage container for proper future disposal.

1730 – End of day.

Photographs:

Photo 01: DU8. View southwest. Unbolting concrete pedestal mounts for fuel pipes.

Photo 02: DU8 S30. View south. Sections of steel floor plate being reduced and processed.

Photo 03: DU8 S30. View north. Loading steel with hydrant water dust abatement.

Photo 04: DU8 S30. View south. Shear work for 10” and 12” steel piping.

Photo 05: DU8 S30. View north. Pad base aggregate is 3/8" minus dry pack asphalt type material.

Photo 06: Fuel Pier. View west. Terminal point where pipe valves are left in place and piping unbolted.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/19/15	0	0	0	0	0	2085.5	0	0	2727.5
10/20/15	0	0	0	0	0	2085.5	0	0	2727.5
10/21/15	0	0	0	0	0	2085.5	0	0	2727.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	0 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/19/15	0	0	0
10/20/15	0	0	0
10/21/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/17/15	47	705	705
10/19/15	56	840	1545
10/20/15	23	345	1890
10/21/15	0	0	0
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/19/15	0	0	0	0	0	0
10/20/15	0	0	4 –AST404	0	0	0
10/21/15	0	0	14 – S30/406/407	0	0	0

Table 4. Soil Sample Collection-

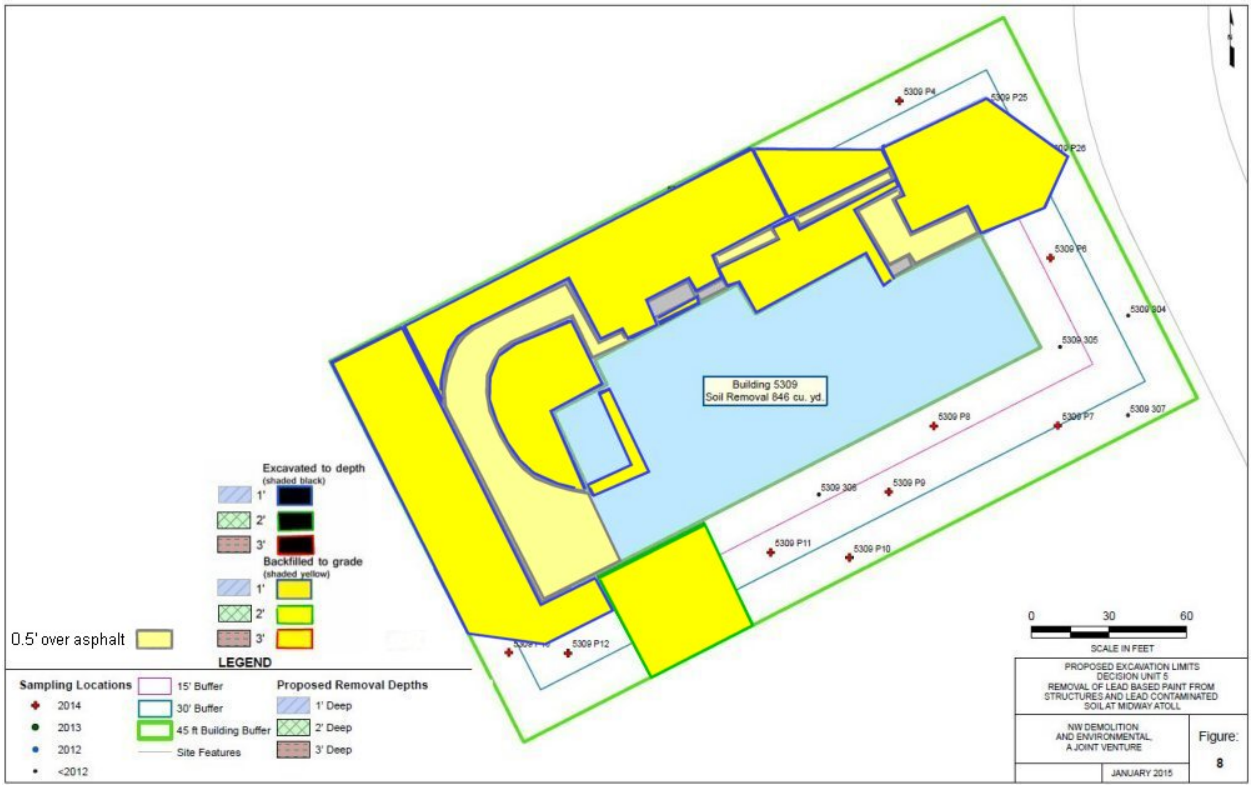
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Thursday, October 22, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 10 mph, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	100 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will resume steel pipe demolition at the Tank Farm.

0730 – At DU8 the two JP5 steel piping runs and one Mogas line are prepared for shearing into manageable lengths to scrap out. Beginning at the access road west of S28 & S30 the previously unbolted flanges allows the sections of pipe to be sheared and loaded into a Volvo truck. Steel is being placed at the boneyard steel pile along with all metal scrapped this season. Pipe demo continues northeast to include the stockpiled manifold piping, valves and mounting pads. Petrel patrol checks the work areas for bird burrows as the excavator moves towards the pier.

S28 AST worksite is being scraped up and soils collected into short stockpiles for upcoming Maectite treatment. The tank perimeter is focused on to move all soil materials above the liner outward from the AST concrete foundation base and stockpile at approximately 20'. Existing HDPE liner is present but the area where initial tank demolition, steel stockpiling and truck loading is damaged and mostly torn into smaller sections. At this area the soils and liner will be excavated and black poly barrier removed and stockpiled for future disposal. Currently on the north side the excavation depth is 6" – 8" to the top of the liner.
When scraping the course coral rubble and sand off the liner, at times the liner is damaged and some tears occur. Generally the liner is light duty regarding abrasion, tearing or puncture resistance. At places where cobble is under the liner the straight edged bucket hooks the cobble and tears the HDPE. The goal is to leave as much liner intact as possible and not remove or puncture it unnecessarily.

0830 – Areas at S28, 404, 406 & 407 ASTs are being picked up for small steel debris, paint chips and that are best served by hand picking. Materials are separated as required and staged for processing or disposal.

1030 – The JP5 piping is progressing well and has made it past the manifold area and on towards the fuel pier. Steel pipes continue to be sheared and loaded into one A30 Volvo truck. The concrete pedestals are left in place.
S28 soils continue to be pulled together in common short stockpiles and cleaned away from the foundation ring. The main work area east of S28 is beginning to be scraped back to a shallow depth. The liner in this work zone where the shear excavator and steel was stockpiled is being removed in small pieces since it was torn during necessary tank access and shearing tasks.

1200 – Lunch.

1300 – At the Fuel Pier the last connections to the pier's large fuel valves are carefully removed. The existing water line run that is adjacent to the fuel pipes is worked around and left intact and undisturbed.

1400 – The long runs of piping have been removed out to the Fuel Pier. The last section of pipe to remain is inside the S28 berm. Begin shearing and removal of the pipe for S28.

1540 – DBSI goes forward at the southeast corner of the R2 for backfilling the water main repair area. The pipe is first bedded and covered with clean coral. Then the demarcation layer that was removed for the repair is replaced and topped off with more clean coral sand.

1700 – As the afternoon wraps up the mini excavator is at AST S28 scraping back soils in the work area in preparation for Maectite treatment. In this berm area the HDPE liner is weathered and exposed to show the majority of liner to not be intact. Excavation target is 6" and adjusted as required in work areas with deeper impacts from demolition work access on the west side.
The 290B excavator and shear have moved into S28 and begin the last task to process the floor plate. Materials are rolled up and staged on the floor plate before being loaded and sent to the boneyard.
Steel hauled today is 13 loads with most being steel JP5 pipes. Two of those loads were out of S28 as its floor is processed for hauling.

1730 – End of day.

Photographs:

Photo 01: DU8. View north. Shear steel piping and load out for removal to the boneyard.

Photo 02: Boneyard. View northwest. Scrap steel pile status at the stockpile area.

Photo 03: DU8 Fuel Pier. View north. JP5 pipe removal near the pier valves.

Photo 04: S28 AST. View east. Soil scraping progress and short stockpiles to be treated.

Photo 05: DU8 S28. View west. Shearing up the last of the Fuel Farm's large JP5 piping.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/19/15	0	0	0	0	0	2085.5	0	0	2727.5
10/20/15	0	0	0	0	0	2085.5	0	0	2727.5
10/21/15	0	0	0	0	0	2085.5	0	0	2727.5
10/22/15	0	0	0	0	0	2085.5	0	0	2727.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	0 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/19/15	0	0	0
10/20/15	0	0	0
10/21/15	0	0	0
10/22/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/17/15	47	705	705
10/19/15	56	840	1545
10/20/15	23	345	1890
10/21/15	0	0	1890
10/22/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/19/15	0	0	0	0	0	0
10/20/15	0	0	4 –AST404	0	0	0
10/21/15	0	0	14 – S30/406/407	0	0	0
10/22/15	0	0	13 – Piping, S30	0	0	0

Table 4. Soil Sample Collection-

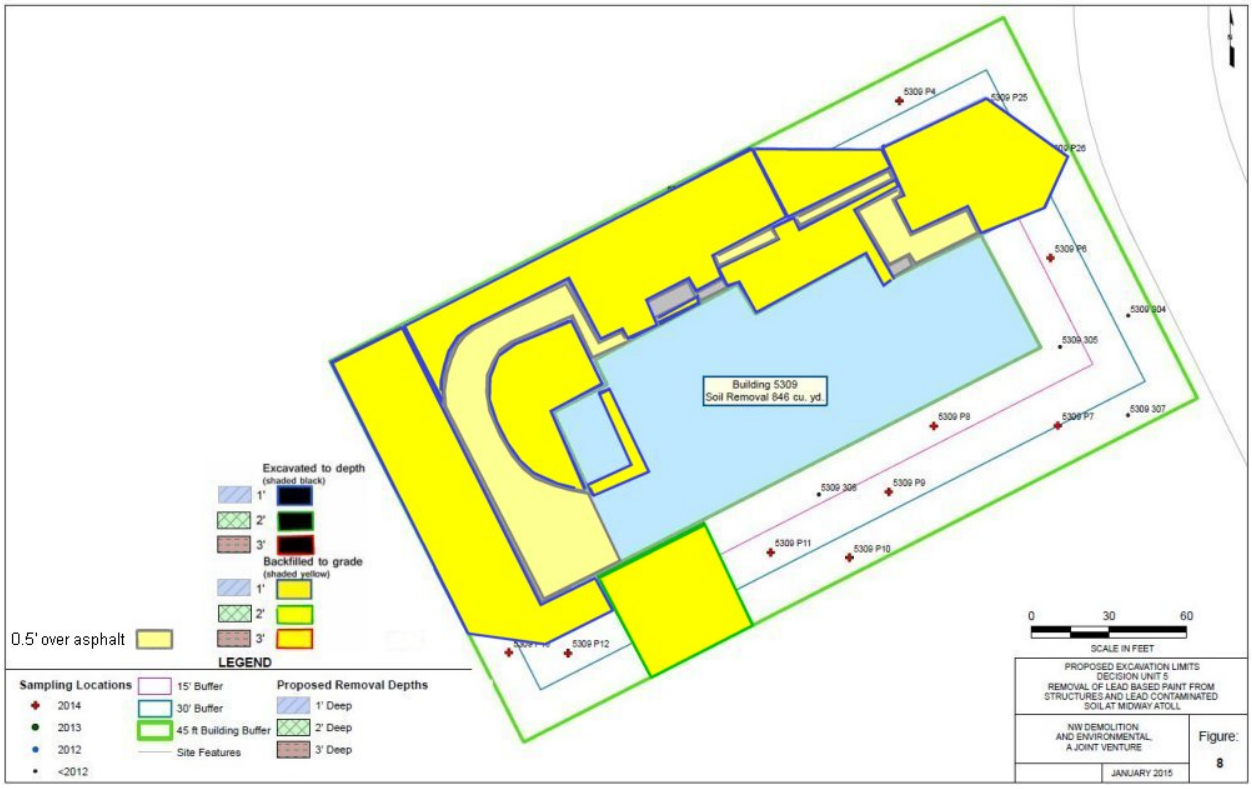
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Friday, October 23, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 12 mph, Temperature ~80F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	167 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0800 – Piping connections that have been unbolted are being capped as needed with steel blind flanges and bolts. The fuel pier area is wrapping up as the work site is picked up and equipment moved out back to S28 & S30 areas.
S30 AST pad and surrounding area is being cleaned up and materials stored in 6mil poly bags. Bags are transported to the NAF staging area and placed in the waste shipping container pending proper disposal,

0900 – Shear work continues as the 290B excavator processes the remaining floor plate at S28 AST. The large sections of steel are folded and rolled to make manageable pieces for transport. Steel continues to be stockpiled in the scrap yard area using one Volvo truck. The machine tracks remain on the existing steel plate while tearing sections to keep the gravel pad intact inside the concrete foundation ring.

1100 – At S30 the work area has been scraped up into small stockpiles for Maectite treatment. Measure up soils and set out plots to be treated later today. When treating occurs the 10 piles will be knocked down to a height of 1.5' prior to applying the reagent, water and mixing tasks.

1200 – Lunch.

1300 – S30 Maectite treatment begins. As soil piles are lightly shaped in a 1.5' tall rectangle for treatment, the volumes are measured again and calculated to compare with the initial cubic yardage figures. Maectite is applied at the target rate of .75 gallons per cubic yard, amended with hydrant water and mechanically mixed to a uniform consistency using the 4' flat edged bucket. The initial yardage for surrounding work area of the former AST is approximately 300 cubic yards in these piles. Once the large volume of soils are exported to the R2 Cell 1 a final cleanup of the work zone will likely generate a few more treatment piles.

1600 – The Maectite application is going well for the S30 worksite. Six of the ten piles are treated and mixed and the last few are being worked at on the west side of the foundation
S28 floor plate is wrapping up as the shear loads out the last of the steel materials. This roughly completes the demolition of AST S28 & S30, AST 404, 406, 407, piping runs at the five ASTs, manifold and elevated pipe run to the Fuel Pier. Clean up work still remains for steel tasks but the heavy processing and hauling is complete.

1700 – As the day is wrapping up only two small S30 soil piles remain to be treated prior to beginning to haul soils out of DU8.

1730 – End of day.

Photographs:

Photo 01: DU8. View northeast. JP5 steel piping removed.

Photo 02: DU8 S28. View north. Processing the last sections of AST steel floor plate.

Photo 03: S30 AST. View east. Maectite application to shallow scrape soil stockpile.

Photo 04: Boneyard. View north. Recycle scrap pile with AST tank bottoms folded and rolled.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/19/15	0	0	0	0	0	2085.5	0	0	2727.5
10/20/15	0	0	0	0	0	2085.5	0	0	2727.5
10/21/15	0	0	0	0	0	2085.5	0	0	2727.5
10/22/15	0	0	0	0	0	2085.5	0	0	2727.5
10/23/15	0	0	0	0	199	2284.5	0	273	3000.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	199 soil		182.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/19/15	0	0	0
10/20/15	0	0	0
10/21/15	0	0	0
10/22/15	0	0	0
10/23/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/17/15	47	705	705
10/19/15	56	840	1545
10/20/15	23	345	1890
10/21/15	0	0	1890
10/22/15	0	0	1890
10/23/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/19/15	0	0	0	0	0	0
10/20/15	0	0	4 –AST404	0	0	0
10/21/15	0	0	14 – S30/406/407	0	0	0
10/22/15	0	0	13 – Piping, S30	0	0	0
10/23/15	0	0	9 – S28	0	0	0

Table 4. Soil Sample Collection-

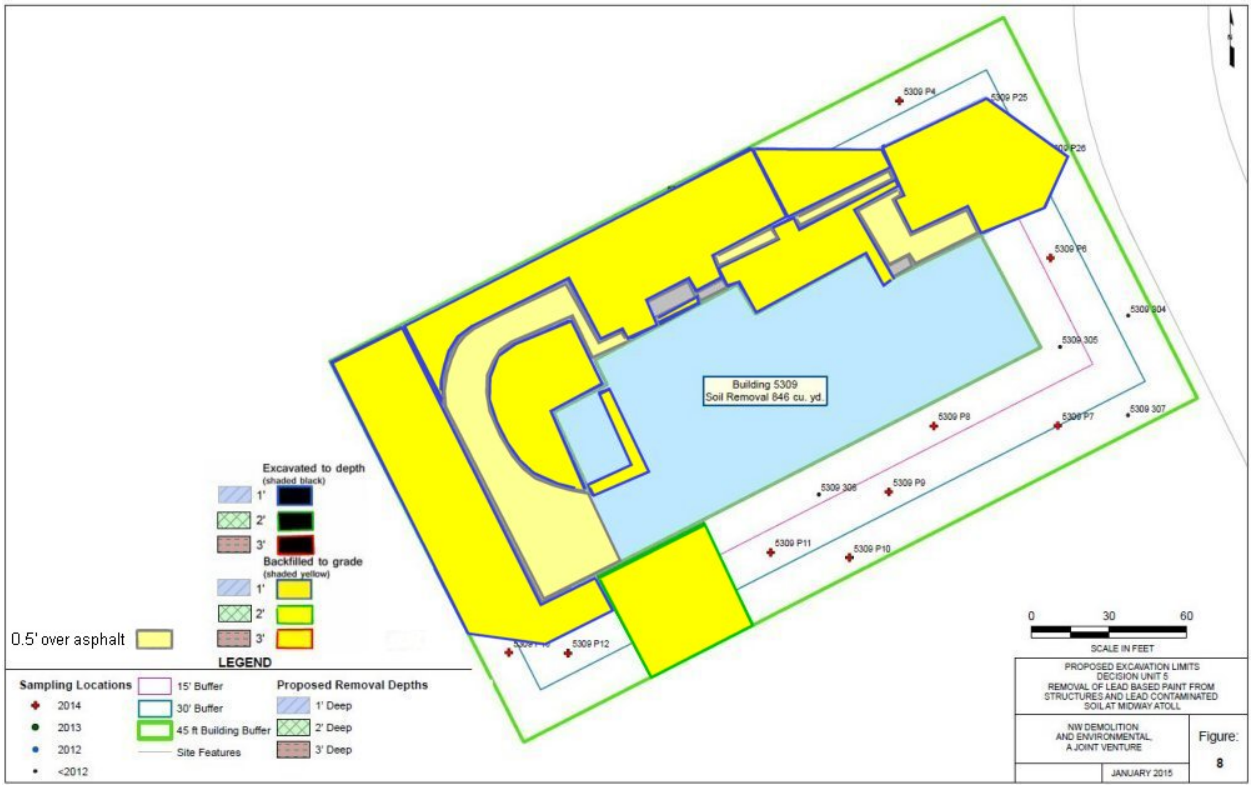
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, October 24, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 12-20 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0800 – At S30 area the small scraped soil piles are treated with Maectite and the materials are ready to be sent out to the R2. The mini excavator is loading two A30 trucks and the S30 treated soil is dumped at the R2 Cell 2. Materials in the cell are graded out using the tracked Bobcat skidsteer in an even lift.

0930 – At the former AST 404 the last remaining small section of fuel piping is removed and sent out to the boneyard scrap pile. The low point of the piping recovered 4 gallons of JP5 that was contained in the abandon leg.

1000 – The Volvo excavator with UP40 shear is decon'd and heads to the boneyard recycle steel pile. The size of the pile has grown from the 140 truckloads of AST and piping steel being placed in a circular pattern. The shear is used to stack the materials up tighter in an acceptable mound. At the edges of the pile the large heavy rolls of floor plate are being positioned to form a barrier to reduce large birds from entering.
S30 treated soil continues to be loaded and hauled to Cell 2 of the R2. The mid separation wall between Cell 1 and Cell 2 that runs north and south has been topped with soil today. Specifically the elevation of the treated waste material has reached the height equal to the mid wall. As soil continues to be filled into Cell 2 the grade is roughly the same as the mid wall as well.

1200 – Lunch.

1300 – S30 treated soils continue to be loaded into the two Volvo trucks and hauled to the R2. The pace is reduced slightly due to parts of the liner coming up and being separated from the soils. Liner is stockpiled for disposal. The HDPE liner is not being placed in the R2.

1400 – At S28 throughout today the foundation and gravel base have been worked on to pick up debris including smaller steel scrap, paint materials and accumulated soil and rust. The waste is bagged in 6mil poly bags and moved to the NAF to be stored in the specified shipping container pending proper disposal.

1600 – The scrap steel pile in the boneyard is looking good as its base is locked in with the larger rolls of steel. Scrap has been positioned to be stable in the pile as not to shift during the off season and winter winds that may occur.

1700 – The first scraped soil at S30 work area is wrapping up, having been treated and hauled to the R2 this week.

1730 – End of day.

Photographs:

Photo 01: AST S28. View southeast. Treated scraped soil is loaded for transport to the R2 Cell 2.

Photo 02: R2 Cell 1 (left) Cell 2 (right). View south. Mid wall is in line with yellow stake and covered.

Photo 03: Boneyard. View north. Scrap steel pile being stacked up and boxed in.

Photo 04: R2 Cell 2. View west. Treated soil placement from S30. Mid wall is slightly buried at berm.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/19/15	0	0	0	0	0	2085.5	0	0	2727.5
10/20/15	0	0	0	0	0	2085.5	0	0	2727.5
10/21/15	0	0	0	0	0	2085.5	0	0	2727.5
10/22/15	0	0	0	0	0	2085.5	0	0	2727.5
10/23/15	0	0	0	0	199	2284.5	0	273	3000.5
10/24/15	0	0	0	0	13.5	2298	23	18.5	3019
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	212.5 soil		205.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/19/15	0	0	0
10/20/15	0	0	0
10/21/15	0	0	0
10/22/15	0	0	0
10/23/15	0	0	0
10/24/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/19/15	56	840	1545
10/20/15	23	345	1890
10/21/15	0	0	1890
10/22/15	0	0	1890
10/23/15	0	0	1890
10/24/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/19/15	0	0	0	0	0	0
10/20/15	0	0	4 –AST404	0	0	0
10/21/15	0	0	14 – S30/406/407	0	0	0
10/22/15	0	0	13 – Piping, S30	0	0	0
10/23/15	0	0	9 – S28	0	0	0
10/24/15	0	0	¼ - Pipe @ 404	0	0	0

Table 4. Soil Sample Collection-

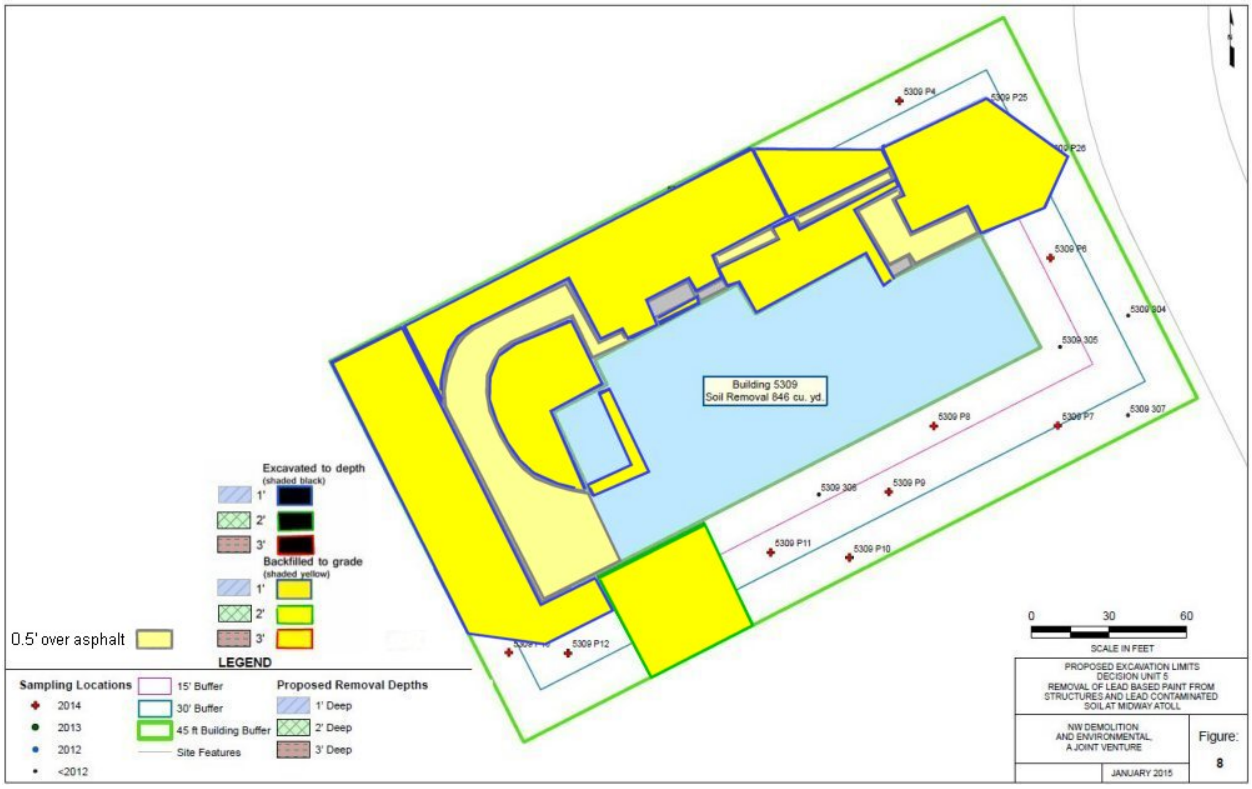
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Monday, October 26, 2015
Prepared by: Scott Wakefield

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: Morning rain, clearing skies, wind 8 mph, Temperature ~79F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	132 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0830 – The crew has moved north to S28 AST for processing the shallow scrape work area stockpiles. Soils are shaped to be uniform at 1.5' in height and rectangular for calculating Maectite application and uniform mixing of the reagent and fire hydrant water. Maectite is applied at .75 gallons per cubic yard from the supply tote. The mini excavator mechanically folds and mixes the materials using the 4' straight edged bucket.

1100 – At S28 the treated soil piles are being loaded into two A30 trucks and moved to the R2 Cell 2 for placement. The tracked skidsteer makes a uniform lift as the materials are dumped.
The UP40 shear is being removed from the 290B excavator. The shear is put away for the season since the steel processing tasks are complete this season.

1200 – Lunch.

1330 – At S28 AST the treated soil stockpiles have been removed and hauled to the R2. One Volvo truck is decon'd and the former floating lid foam material strips are loaded up. This foam is moved to the NAF staging area and placed for storage in the shipping container pending proper disposal.

1500 – The Peterbuilt roll-off box truck is brought in to S30 work area to collect the black HDPE liner currently piled up. Materials are shaken out for soil debris and loaded into the roll-off box.

Layout sampling points remaining at the Midway Water Plant from last season's placement drawing.

1700 – The roll-off box is full to the top with HDPE liner materials but not densely compacted. It is staged at the NAF hanger temporarily for the night and will resume loading more liner tomorrow. If the roll-off box doesn't hold all the black HDPE it will need to be stockpiled someplace this season. Details of where to stage the liner is under consideration.

1730 – End of day.

Photographs:

Photo 01: AST S28. View east. Shallow scraped soil is mixed with Maectite and hydrant water.

Photo 02: S28 AST. View north. Partial load of debris from tank pad and footing.

Photo 03: S30 AST. View north. Loading black HDPE liner stockpiles into roll-off box.

Photo 04: First roll-off box of HDPE liner.

Photo 05: AST S28. View east. Work area progress.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/26/15	0	0	0	0	107.5	2405.5	9	147.5	3166.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	320 soil gallons		214.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/26/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/26/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/26/15	0	0	0	0	0	0

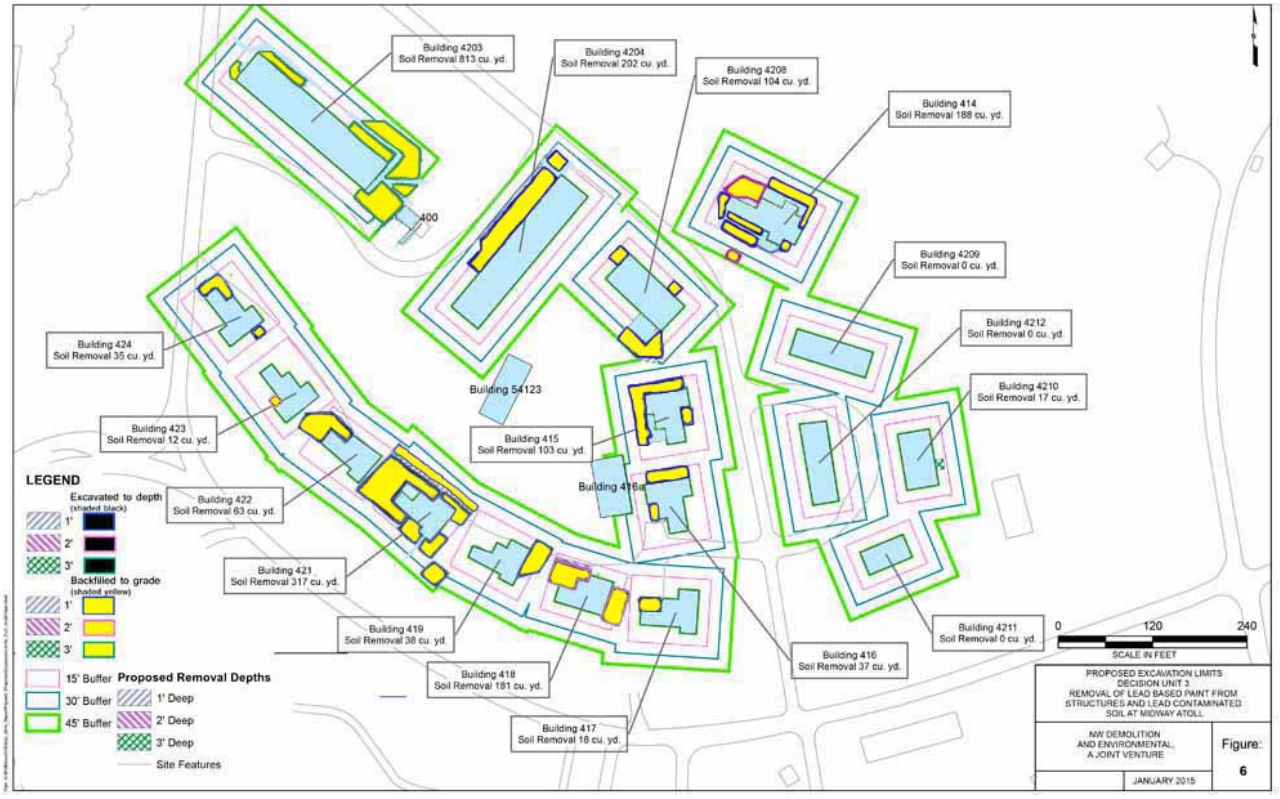
Table 4. Soil Sample Collection-

0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

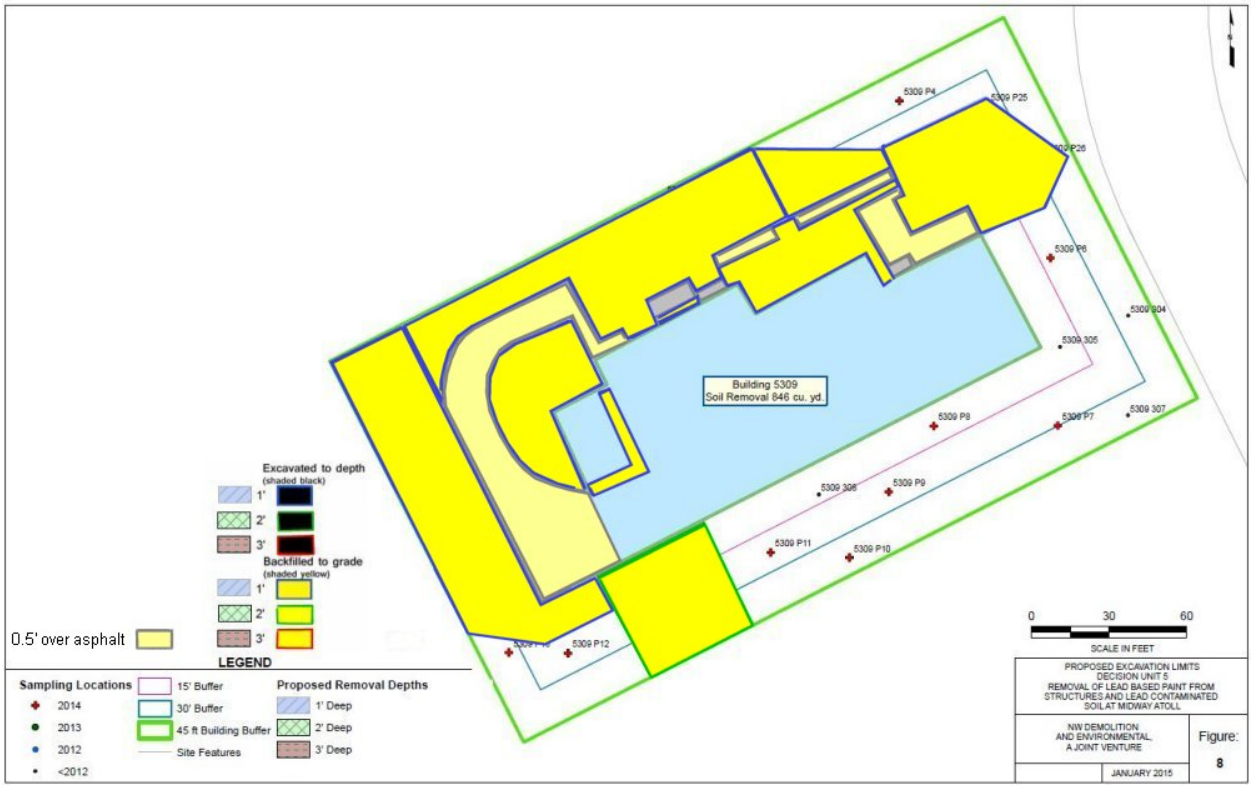
-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3



Map 2- Excavation Limits DU-5



NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, October 27, 2015
Prepared by: Scott Wakefield

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: Morning rain, cloudy skies, wind 5 mph, Temperature ~77F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0830 – The S28 AST site has the bulk of the work area soil treated and removed from the initial shallow scrape. This opens up space to perform the second surface scrape to finish off the cleanup of the immediate work area around the AST foundation. The Cat mini excavator uses the flat edged bucket to gather target areas and shape up a small stockpile not exceeding 1.5' in height.
At the NAF, NWDE is performing maintenance on equipment for O&M of the Peterbuilt truck.

0930 – Clean-up work is ongoing at S28 as soil is scraped in the second round process. Additionally areas requiring hand work, broom and shovel are gathered and bagged for future disposal.

1100 – HDPE liner material at S28 has continued to make it into the Peterbuild roll-off truck box for temporary storage.
Maectite is calculated per the Sevenson Stabilization plan at .75 gallons per cubic yard for application to the soil plot at S28. Routine use of fire hydrant water and mechanical mixing with the excavator bucket adequately combines the reagent with the stockpiled soil.

1200 – Lunch.

1300 – Soil treated this morning at AST S28 is currently being loaded into two Volvo A30 off road dump trucks. This material is hauled per the specified travel route and placed in the R2 Cell 2. Rough grade is maintained today in the R2 with the tracked Bobcat skidsteer.

1430 – At S28 the extents of the loose liner that was previously piled up by "other actions or weather" prior to the DU8 season is evaluated for what will be removed. Current determination with U.S. FWS is that if the liner was disturbed for AST demo work this month, the HDPE liner will be removed. If the liner has not been disturbed and is within DU8, it will be left as is where is.
Small debris cleanup has continued through the afternoon as the outer extents of the S28 foundation are swept, shoveled and bagged.

1700 – The roll-off box has continued to be stacked up with S28 liner. The increasing weight and means of placement help to compact the black poly into the box and achieve a greater volume of HDPE storage.

1730 – End of day.

Photographs:

Photo 01: AST S28. View north. Second round of surface scrape and Maectite treatment.

Photo 02: S28 AST. View north. Second round of surface scrape treated and removed to R2.

Photo 03: S28 AST. View northeast. Loading black HDPE liner into roll-off box.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/26/15	0	0	0	0	107.5	2405.5	9	147.5	3166.5
10/27/15	0	0	0	0	57.5	2463	6	79	3245.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	377.5 soil gallons		220.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/26/15	0	0	0
10/27/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/26/15	0	0	1890
10/27/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/26/15	0	0	0	0	0	0
10/27/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

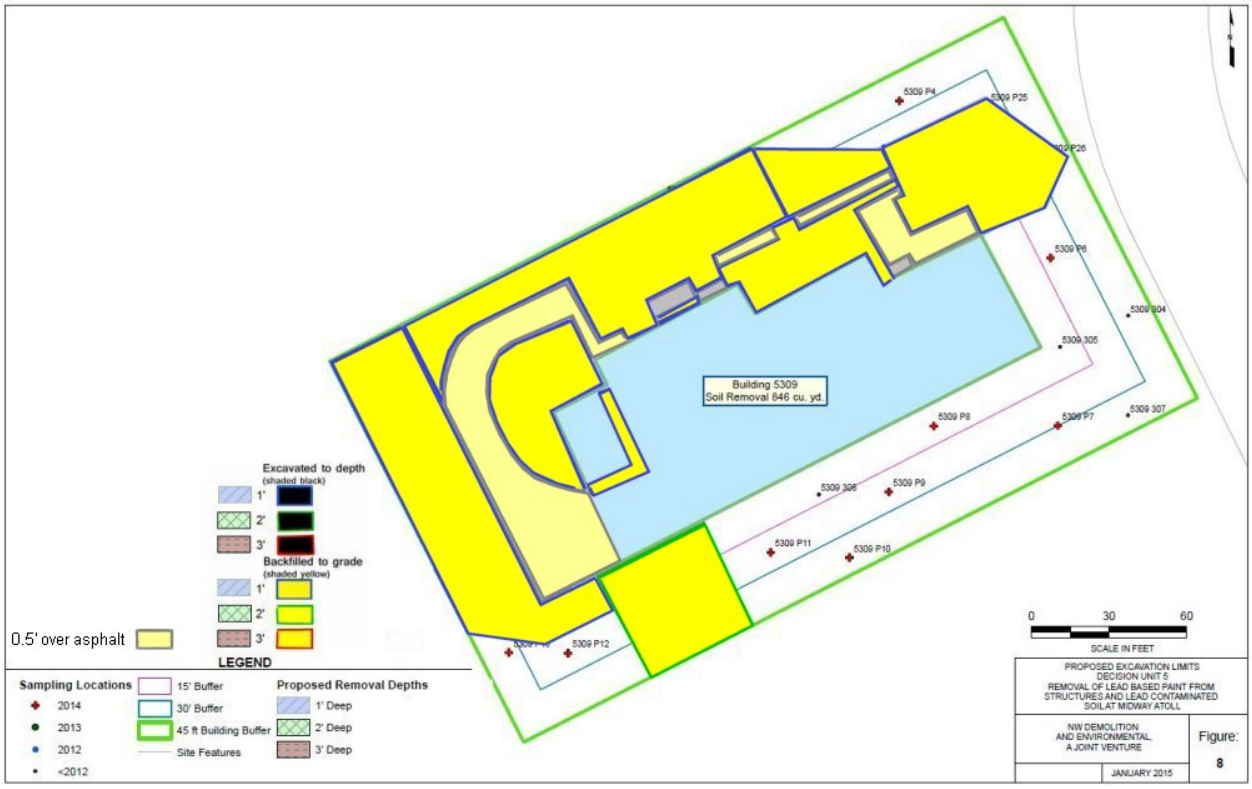
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Wednesday, October 28, 2015
Prepared by: Scott Wakefield

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: Partly sunny, wind 9 mph, Temperature ~76F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	175 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0830 – S30 AST is ready for the second pass to pull soil piles together for treatment of the immediate work zone. Beginning at former 406 AST the soil and debris is pulled and placed using the mini excavator and flat edged bucket. The plot west of S30 AST foundation is also being processed with a final cut of the soil to gather demolition debris and paint chips.

0930 – Clean-up work continues at S30 as soil is scraped in the second round process. Additionally areas requiring hand work, broom and shovel are collected. Liner materials that are deemed damaged and restrictive to the cleanup process are being removed and staged for placement into the roll-off box.

1000 – Weekly conference call with Mainland and Hawaii project offices. See NWDE Midway Meeting Agenda for specific detail.

1100 – At S30 the soil is being worked at on the east side of the tank foundation. Extents include up against the foundation and outward. Ground markings are made to indicate limits of the shallow excavation as standard practice.
Debris at the piping concrete pedestals on the northeast side of S30 are being picked up around. Materials are collected and included into the treatment plots that are currently being formed.

1200 – Lunch.

1300 – At the last remaining water tower near the NAF Hanger, paint coating materials are collected from the lower red section legs, upper red section of ladder railing that has fallen to the ground and the concrete piers that are coated light gray. Materials will be submitted for lab testing EPA 6010.

1400 –DU8 S30 the soil stockpiles are calculated. Begin applying Maectite with hydrant water for soil treatment in the 1.5' tall rectangular plots. The 290B excavator with flat edged bucket is being used to treat and load the soils. This allows the mini excavator to continue working at the west side of the foundation loading up HDPE liner into the roll-off box.
Liner continues to be stacked into the roll-off box and to date has accepted all the liner removed from S30 & S28.

1600 – Treated soil on the west side of S30 is being loaded into two A30 trucks and hauled to the R2 Cell 2 for placement. The 290B is being used to load this soil out.

1700 – As the day wraps up S30 has 40% of the second scrape treated with 20% hauled out. Tomorrow will resume the treat and haul work at the site.

1730 – End of day.

Photographs:

Photo 01: R2 Cell 2. View north. Progression of treated soil into the cell.

Photo 02: S30 AST. View north. Second round of surface scrape on east side.

Photo 03: S30 AST. View southeast. Loading black HDPE liner into roll-off box.

Photo 04: Boneyard. View south. Backside of steel pile with perimeter steel rolls.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/26/15	0	0	0	0	107.5	2405.5	9	147.5	3166.5
10/27/15	0	0	0	0	57.5	2463	6	79	3245.5
10/28/15	0	0	0	0	46	2509	6	63	3308.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	423.5 soil gallons		226.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/26/15	0	0	0
10/27/15	0	0	0
10/28/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/26/15	0	0	1890
10/27/15	0	0	1890
10/28/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/26/15	0	0	0	0	0	0
10/27/15	0	0	0	0	0	0
10/28/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

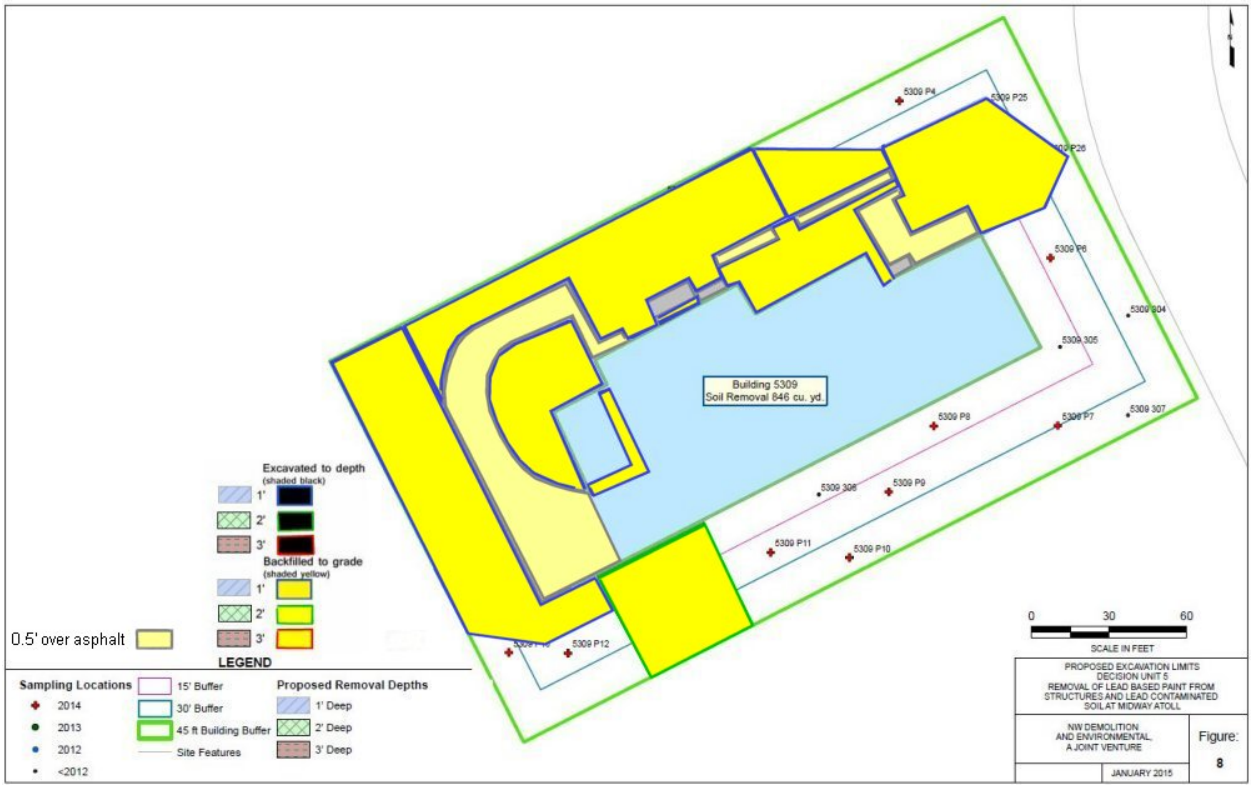
2 collection points / 2 Whirlpak samples collected today, 0 sample refused:

Water Tower Paint	Tower Base Gray	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Daily Field Report

Date: Thursday, October 29, 2015
Prepared by: Scott Wakefield

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: Partly sunny, wind 7 mph, Temperature ~76F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	68 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0800 – The S30 AST three plot stockpiles of the second shallow scrape are ready to be treated with Maectite. The required gallons for each pile is applied and mixed using the 290 Volvo excavator and amended with hydrant water when folding the soil and liquids into a uniform consistency. The first area this morning is west of S30 near former AST 406.

AST 407 is being cleaned up for the first time. The HDPE liner has very little soil on top of it. The sand and paint chips that do exist are hand shoveled and swept to the collection point and stockpiled for treatment. Once the volume of materials are arranged calculations are made for Maectite requirements.

0900 – S28 and S30 sampling points are positioned for upcoming collection. The points will be a 5-point composite outside of the excavation area and above the existing HDPE liner that has an average 6" of coral cover. Sampling of the excavation area will remain a Multi Incremental Sampling method.

1100 – Treated soil at S30 continues to be loaded out into two A30 trucks and hauled to the R2 Cell 2. The tracked Bobcat skidsteer manages soil piles in the R2 to an even grade across the cell.
The driveway to S28 work zone entrance is marked out and shallow scrape work is underway to wrap up the soil excavations for this plot.

1200 – Lunch.

1245 – Layout S30 driveway shallow scrape plot for the work area. Once the soils is gathered into a flat rectangular pile the volumes and Maectite figures are made. Soil treatment proceeds as expected.

1300 – Begin sampling P1 through P11 of S28.
Former AST 407 soil has been treated with reagent, mixed and being loaded for the R2.

1500 – The DU8 soil excavation and treatment is wrapping up for the entire area. Additional small clean up and materials being picked up remain but Maectite application is complete. The S28 foundation edges are being worked over to pick up errant debris.

1510 – S28 P points are done, layout S28 MIS grid for the shallow excavation area. Begin collection of the MIS samples.
Part of the NWDE crew is at the R2 to change out white sandbags for a better conditioned black 5 year bag. Also straighten up shade cloth atop the R2 as the season nears the end and the interim cover will remain effective until next summer.

1700 – MIS of S28 is complete. Pending an inspection the S28 is nearly ready for backfilling with clean coral sand in the excavation areas.

1730 – End of day.

Photographs:

Photo 01: S28 AST. View east. Work area driveway being scraped for treatment.

Photo 02: 407 AST. View southeast. Loading out treated soil from atop the liner.

Photo 03: S28 AST. View east. Progress of excavation and MIS sample plot.

Photo 04: S30 AST. View southeast. Progress of completed soil excavation.

Table 1. Maectite and Treated Soil Total Estimates

Date	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/26/15	0	0	0	0	107.5	2405.5	9	147.5	3166.5
10/27/15	0	0	0	0	57.5	2463	6	79	3245.5
10/28/15	0	0	0	0	46	2509	6	63	3308.5
10/29/15	0	0	0	0	100.5	2609.5	16	138	3446.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	524 soil gallons		242.75 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/26/15	0	0	0
10/27/15	0	0	0
10/28/15	0	0	0
10/29/15	0	0	0
Total to date- 0 loads			

Notes:
A. -

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/26/15	0	0	1890
10/27/15	0	0	1890
10/28/15	0	0	1890
10/29/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/26/15	0	0	0	0	0	0
10/27/15	0	0	0	0	0	0
10/28/15	0	0	0	0	0	0
10/29/15	0	1	0	0	0	0

Table 4. Soil Sample Collection-

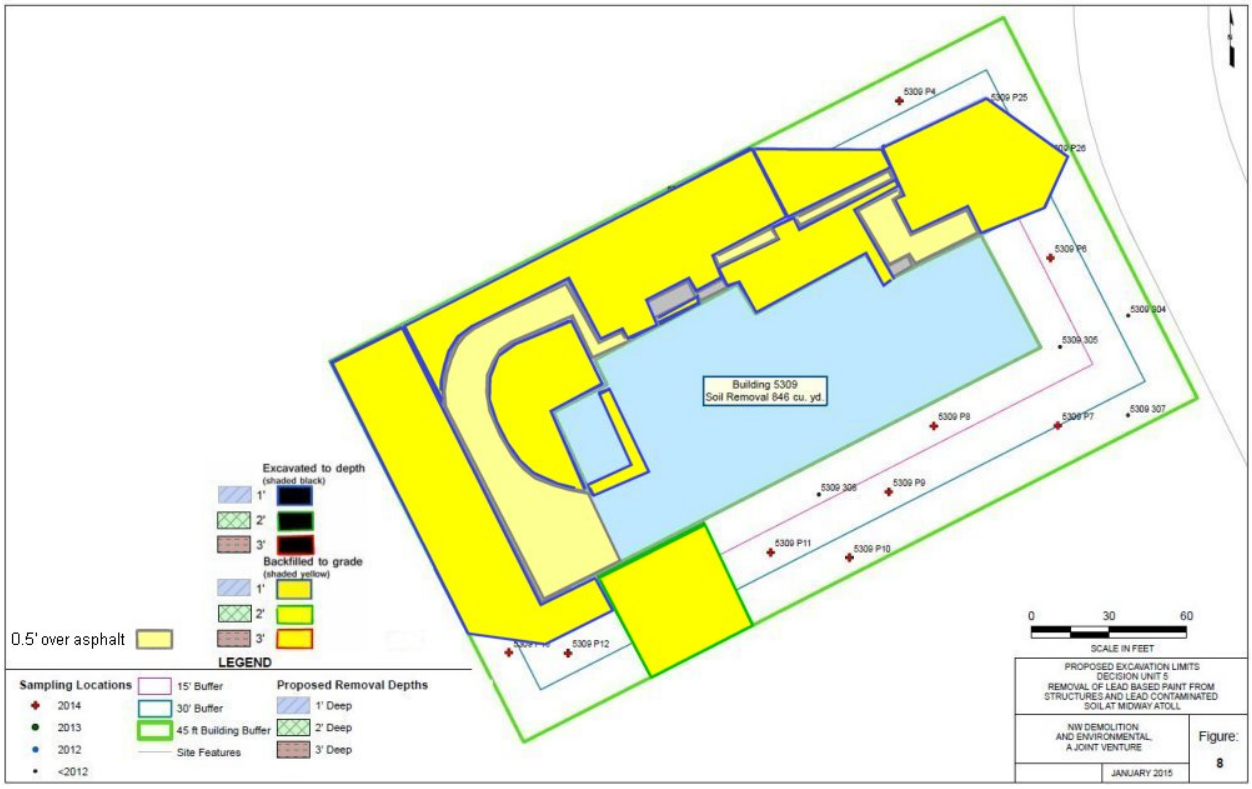
151 collection points / 14 Whirlpak samples collected today, 0 sample refused:

S28 P1 0-6”	S28 P2 0-6”	S28 P3 0-6”
S28 P4 0-6”	S28 P5 0-6”	S28 P6 0-6”
S28 P7 0-6”	S28 P8 0-6”	S28 P9 0-6”
S28 P10 0-6”	S28 P11 0-6”	-
S28 MIS 0-2”	S28 MIS 0-2” DUP	S28 MIS 0-2” Triplicate

Notes:
1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.
2. P points 0-6” are a 5 point composite.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Map 3- Excavation Limits DU-8

Daily Field Report

Date: Friday, October 30, 2015
Prepared by: Scott Wakefield

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: Cloudy, slight rain, wind 10 mph, Temperature ~71F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	14 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0800 – Conduct initial walk through of DU8 with U.S. FWS on punch list work for S28 & S30 prior to backfill. Make note of a few small areas, liner needing positioned or disposed of, small steel pipe supports and planned drain in each gravel AST pad.

0930 – At S30's central low point a hole is dug with the mini excavator. The goal is to remove the gravel pack and expose the underlying coral and sand. This will allow the gravel AST pad to naturally drain winter rains and not pond across the foundation. Once the hole is exposed a test using hydrant water verifies the coral base adequately drains the approximately 6" gravel depression across the pad. Test flow is approximately 10gpm and once the sump slowly fills it drains out in 5 minutes.
The excavated sump end up being 2.5' L x 2.5' W x 2.5. D. The gravel layer of S30 pad at the center is 0.7'. When clean coral sand is imported to backfill DU8 this pad sump void will be filled in to eliminate bird entrapment and create a sand filter surface area.

1000 – S28 will receive the same sump positioned in the center of the gravel pad. Currently there is a 12' diameter ponding of water 1" deep that will be dug through. On the first attempt to dig the silty fines tend to blind off the drain sand beneath. Once water has slowly drained at a less than satisfactory rate, a second drain sump is dug and not impacted with the demolition silt. A hose percolation test is performed and results are adequate using 9gpm influent and draining in 5 minutes.
Demolition debris that was wet in the pooling water is shoveled up and placed for disposal. At S28 both sumps are finalized and will be backfilled with sand.
As a preventative measure the S28 & S30 gravel pads will be sprayed with Maectite mixture through the standard use pressure washer. The pads have been swept and shoveled clean of debris but given the rough texture 3/8" minus gravel applying Maectite will contact any LBP materials and react. The exterior of the concrete foundation ring is also sprayed with the reagent.
S28 Maectite applied is 5 gallons and adequately wetted. S30 Maectite applied is also 5 gallons.

1100 – Composite 0-6" soil sampling of S30 P-points is underway for DU8. WhirlPaks will be submitted to Test America at the end of the season.

1200 - Lunch

1430 – The S28 & S30 gravel removed for the sumps has been Maectite treated and is hauled to the R2 Cell 2. The AST pads have a clean flat grade leading up the sump edge.

1500 – AST S28 is ready for clean backfill sand from the borrow source. Two A30 trucks begin importing coral to the west side. Loading at the beach is overseen by the biological monitor regarding birds and sea life.

1630 – Sampling of S30 wraps up for P-points and MIS sampling of the excavation limits. S30 is ready for backfill.

1730 – End of day.

Photographs:

Photo 01: R2 Cell 2. View west. Progress treated soil volumes of Cell 2.

Photo 02: S30 AST. Water test of central drain sump in gravel pad prior to sand backfill.

Photo 03: S28 AST. View north. First sump (left) and second sump (right.)

Photo 04: S28 AST. View east. Clean coral sand placement into drainage sump.

Photo 05: S28 AST. View east. Backfill with clean coral sand progress.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/26/15	0	0	0	0	107.5	2405.5	9	147.5	3166.5
10/27/15	0	0	0	0	57.5	2463	6	79	3245.5
10/28/15	0	0	0	0	46	2509	6	63	3308.5
10/29/15	0	0	0	0	100.5	2609.5	16	138	3446.5
10/30/15	0	0	0	0	10	2619.5	.25	0	3446.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	524 soil gallons		243 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.
4. 10/30/15 Maectite spray 5 gallons each on S28 & S30 pads, left in place. Sump gravel hauled to R2 Cell 2 included in volume exported.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/26/15	0	0	0
10/27/15	0	0	0
10/28/15	0	0	0
10/29/15	0	0	0
10/30/15	20	300	300
Total to date- 20 loads			

Notes:
A. – Backfill minimum 8" atop HDPE liner and excavation limits.

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/26/15	0	0	1890
10/27/15	0	0	1890
10/28/15	0	0	1890
10/29/15	0	0	1890
10/30/15	0	0	1890
Total to date- 126 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 120 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/26/15	0	0	0	0	0	0
10/27/15	0	0	0	0	0	0
10/28/15	0	0	0	0	0	0
10/29/15	0	1	0	0	0	0
10/30/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

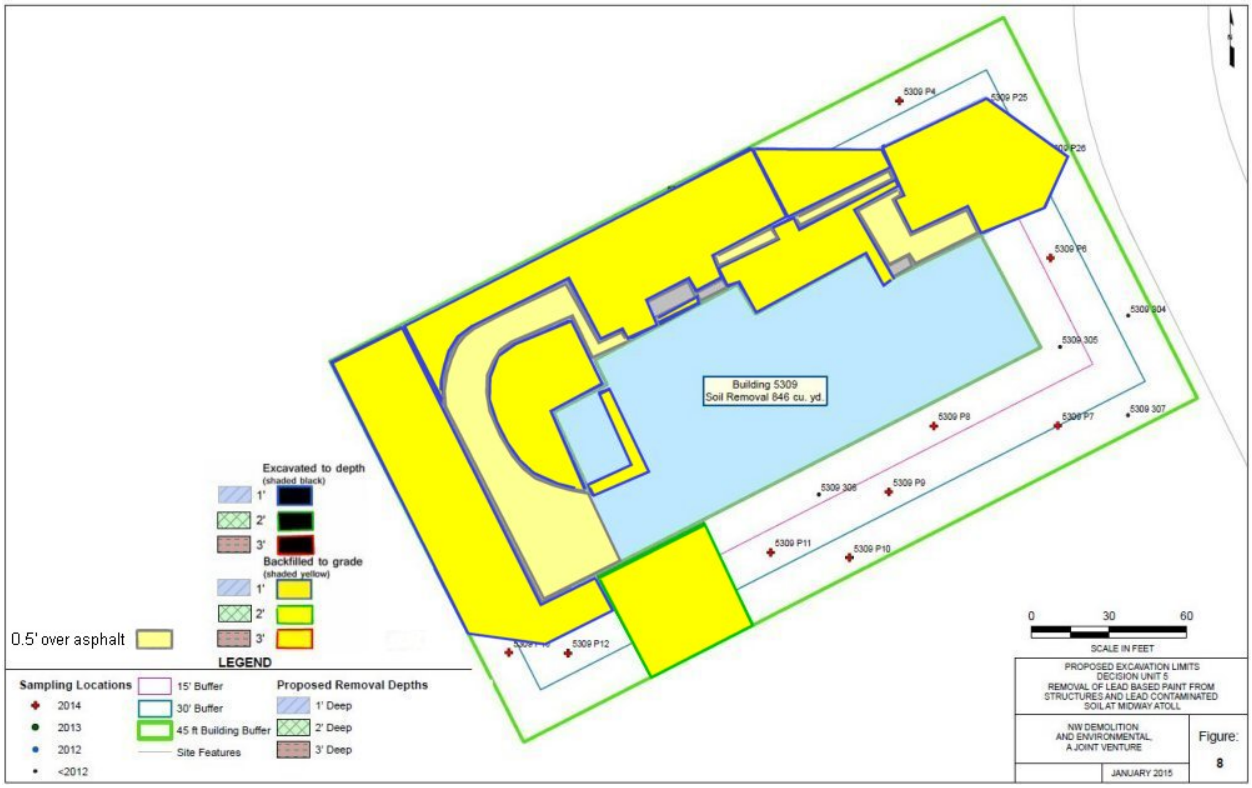
148 collection points / 15 Whirlpak samples collected today, 0 sample refused:

S30 P1 0-6”	S30 P2 0-6”	S30 P3 0-6”
S30 P4 0-6”	S30 P5 0-6”	S30 P6 0-6”
S30 P7 0-6”	S30 P8 0-6”	S30 P9 0-6”
S30 P10 0-6”		-
S30 MIS 0-2”	S30 MIS 0-2” DUP	S30 MIS 0-2” Triplicate
S30 Gravel Pad	S28 Gravel Pad	-

Notes:
1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.
2. P points 0-6” are a 5 point composite.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Map 3- Excavation Limits DU-8

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Saturday, October 31, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 15-22 mph, Temperature ~74F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks.

0800 – The morning and throughout the day is projected to haul clean coral sand from the cargo pier borrow source into DU8. Currently S28 maintains steady loads being placed atop the remaining HDPE liner and excavation areas. Backfill lift is targeted at 8" but exceeds this in stepped areas as a relatively even rough grade is made.

Sampling work resumes for DU9 Water plant facility buildings. This picks up where sampling left off last year in October.

0900 – S30 is ready for backfill and hauling in clean sand begins. Both Volvo A30 trucks are hauling on the relatively short route and the 290B excavator continues to load. The borrow source volume of soil has been altered with the recent tides and wave action. Some areas have replenished and others reduced in addition to what has been hauled out. Overall there is more than enough clean coral between the fuel pier and cargo pier for this season.
Beach work is observed by a biological monitor at all times for animal and equipment conflicts. To date no interactions of sea life or birds with equipment have occurred. Noted too is that the Laysan albatross, Black footed albatross and one short tail albatross have been arriving over the past week and daily numbers are increasing. The island count of new arrivals is over several 100 birds.

1200 - Lunch

1300 – S30 clean backfill continues. This includes the AST 404, 406 and 407 plots.
Soil sampling at the Midway water plant continues for structures and concrete water USTs.

1600 – Sampling wraps up for the Water plant area.
DU8 backfill work has progressed quickly as the loads are placed and roughed in with the Cat and Bobcat machines. Finishing out the afternoon large volumes of clean sand have made it into DU8. Additionally 3 loads are hauled to stockpile at the east side of the R2 DU5 buttress. A record high of 74 truckloads of clean coral sand are moved by days end.

1730 – End of day.

Photographs:

Photo 01: S30 AST. View north. Drainage sump with clean coral backfill sand.

Photo 02: 404 AST. View west. Progress of backfill with clean sand.

Photo 03: 406 AST. View southeast. Progress of backfill with clean sand.

Photo 04: 407 AST. View southeast. Progress of backfill with clean sand.

Photo 05: Borrow Source. View north. Progress of beach excavation for clean backfill.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						Treated Soil Totals[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
10/26/15	0	0	0	0	107.5	2405.5	9	147.5	3166.5
10/27/15	0	0	0	0	57.5	2463	6	79	3245.5
10/28/15	0	0	0	0	46	2509	6	63	3308.5
10/29/15	0	0	0	0	100.5	2609.5	16	138	3446.5
10/30/15	0	0	0	0	10	2619.5	.25	0	3446.5
10/31/15	0	0	0	0	0	2619.5	0	0	3446.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	524 soil gallons		243 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.
4. 10/30/15 Maectite spray 5 gallons each on S28 & S30 pads, left in place. Sump gravel hauled to R2 Cell 2 included in volume exported.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
10/26/15	0	0	0
10/27/15	0	0	0
10/28/15	0	0	0
10/29/15	0	0	0
10/30/15	20	300	300
10/31/15	71	1065	1365
Total to date- 91 loads			

Notes:
A. – Backfill minimum 8" atop HDPE liner and excavation limits.

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
10/26/15	0	0	1890
10/27/15	0	0	1890
10/28/15	0	0	1890
10/29/15	0	0	1890
10/30/15	0	0	1890
10/31/15	3	45	1935
Total to date- 129 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1095 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 165 cuyds
E. R2 West buttress coral yardage = 345 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
10/26/15	0	0	0	0	0	0
10/27/15	0	0	0	0	0	0
10/28/15	0	0	0	0	0	0
10/29/15	0	1	0	0	0	0
10/30/15	0	0	0	0	0	0
10/31/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

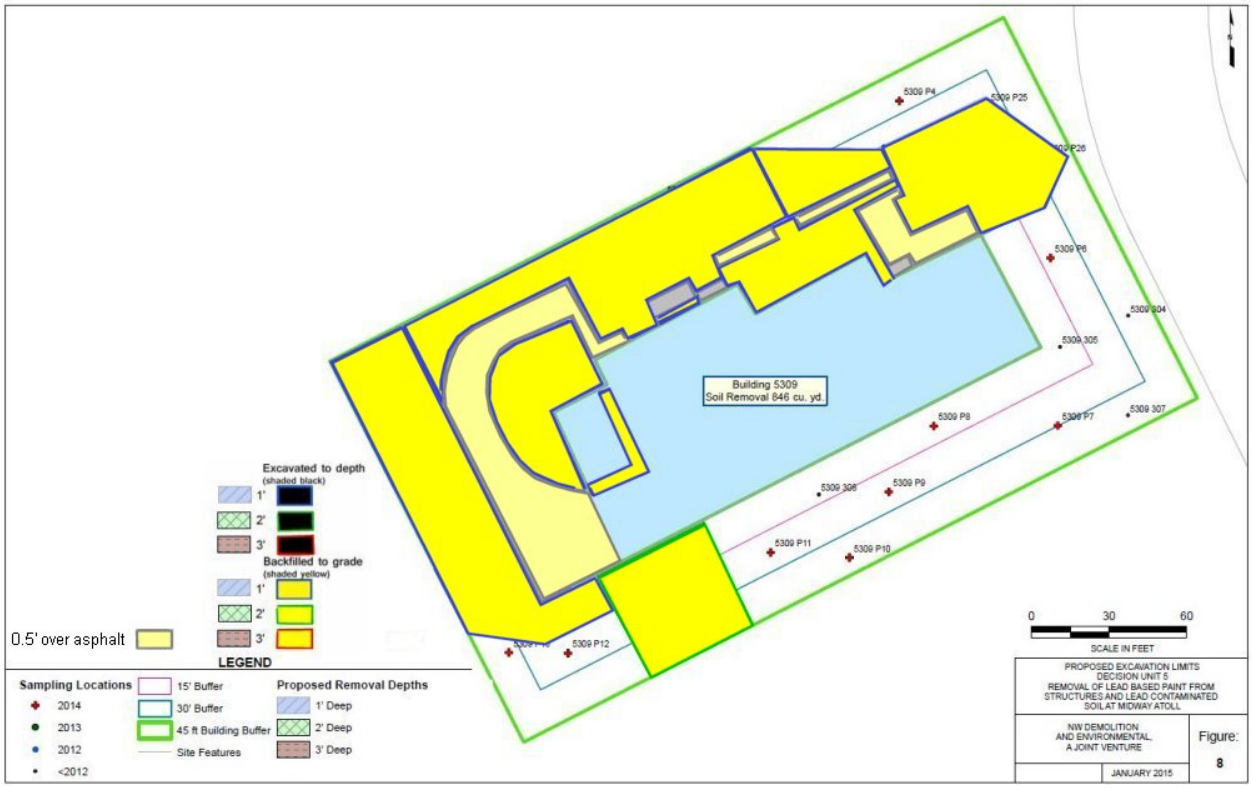
17 collection points / 51 Whirlpak samples collected today, 0 sample refused:

347-P2 0-6”	347-P2 12-18”	347-P2 24-30”
347-P4 0-6”	347-P4 12-18”	347-P4 24-30”
347-P5 0-6”	347-P5 12-18”	347-P5 24-30”
347-P8 0-6”	347-P8 12-18”	347-P8 24-30”
3126E-P2 0-6”	3126E-P2 12-18”	3126E-P2 24-30”
3126E-P3 0-6”	3126E-P3 12-18”	3126E-P3 24-30”
3126E-P4 0-6”	3126E-P4 12-18”	3126E-P4 24-30”
3126E-P5 0-6”	3126E-P5 12-18”	3126E-P5 24-30”
3126E-P5 0-6” DUP	3126E-P5 12-18” DUP	3126E-P5 24-30” DUP
3127W-P1 0-6”	3127W-P1 12-18”	3127W-P1 24-30”
3127W-P3 0-6”	3127W-P3 12-18”	3127W-P3 24-30”
3127W-P4 0-6”	3127W-P4 12-18”	3127W-P4 24-30”
3127W-P5 0-6”	3127W-P5 12-18”	3127W-P5 24-30”
3501-P1 0-6”	3501-P1 12-18”	3501-P1 24-30”
3501-P4 0-6”	3501-P4 12-18”	3501-P4 24-30”
3501-P5 0-6”	3501-P5 12-18”	3501-P5 24-30”
3501-P6 0-6”	3501-P6 12-18”	3501-P6 24-30”

Notes:
1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2” at small plots.
2. P points 0-6” are a 5 point composite.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Map 3- Excavation Limits DU-8

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Monday, November 2, 2015
Prepared by: Scott Wakefield

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: Partly cloudy, wind 9-15 mph, Temperature ~75F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS
Dan Clark	U.S. FWS
Bret Wolfe	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	250 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will continue working at the Tank Farm tasks and the R2.

0800 – DU8 site work is drawing to a close today as the last bit of clean sand is brought in for small areas and final pickup occurs for miscellaneous debris. Loads of clean sand also are also being moved out to the R2 buttress area on the east and west sides. This R2 stockpile near the wall areas builds up the clean backfill available for next season's continuation of the final design.
Submit permit paperwork to U.S. FWS Dan Clark for export of coral samples collected this year that will be delivered to Test America for analysis.

1000 – Inspection walk through with U.S. FWS M.Amann, D.Clark, B.Wolfe, NWDE E.White & S.Wakefield. Beginning at DU8 for AST S28, S30, 407, 406, 404 and associated piping run to the fuel pier. Next to the Boneyard scrap steel pile, Bldg 5309 Transmitter, R2 interior & exterior, 414 Midway House, Officers Housing 415, 416, 417, 418, 419, 421, 422, 423, 424, duplex 4208, barracks 4203 Bravo & 4204 Charlie. Condition of project areas is satisfactory and accepted by the refuge managers.
Note that U.S.FWS may opt to place clean sand on top of the gravel pads at S28 & S30 for increased bird habitat. No restrictions are imposed for importing additional sand by DBSI or U.S. FWS.

1200 – Lunch.

1300 – At the Cargo Pier borrow source area preparations are made to level out the beach sand to remove any low pits that would pose a bird entrapment threat. The 290B excavator tends to not leave irregular grade or holes while loading, but attention is made to keep the beach grade consistent so that wave action will maintain a natural beach.

1400 – At the R2 Cell 2 the end of the season brings the interim shade cloth cover out of storage and back onto the treated soil. NWDE is rolling out the black fabric with adequate edge overlap, sandbags and abutted to the interior R2 walls. The number of black sandbags is consistent with those used in past seasons successfully.

1615 – Shade cloth on Cell 2 has worked up to the west ramp area and is nearly complete to cover the last open R2 cell. Part of the NWDE crew remains on shade cloth work while others are at the NAF staging area and begin to restack empty totes into shipping containers for the end of the season cleanup of the staging area.

1700 - Equipment O&M, inventory and final punch list items will be addressed tomorrow as the season begins to wind down,

1730 – End of day.

Photographs:

Photo 01: R2 east wall. View south. Additional stockpiling of clean coral sand.

Photo 02: R2 east wall. View south. Rough grading piles to eliminate bird entrapment areas.

Photo 03: S30 AST. View southwest. Former piping removed and complete backfill of excavation areas.

Photo 04: Cargo Pier. View east. Beach progress near end of the season.

Photo 05: R2 west wall. View south. Clean stockpile at Cell 2 & Cell 4 ramps.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
11/2/15	0	0	0	0	0	2619.5	0	0	3446.5
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	524 soil gallons		243 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.
4. 10/30/15 Maectite spray 5 gallons each on S28 & S30 pads, left in place. Sump gravel hauled to R2 Cell 2 included in volume exported.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
11/2/15	3	45	1410
-End-			
Total to date- 94 loads			

Notes:
A. – Backfill minimum 8" atop HDPE liner and excavation limits.

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
11/2/15	20	300	2235
-End-			
Total to date- 149 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1155 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 315 cuyds
E. R2 West buttress coral yardage = 435 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
11/2/15	0	0	0	0	0	0

Table 4. Soil Sample Collection-

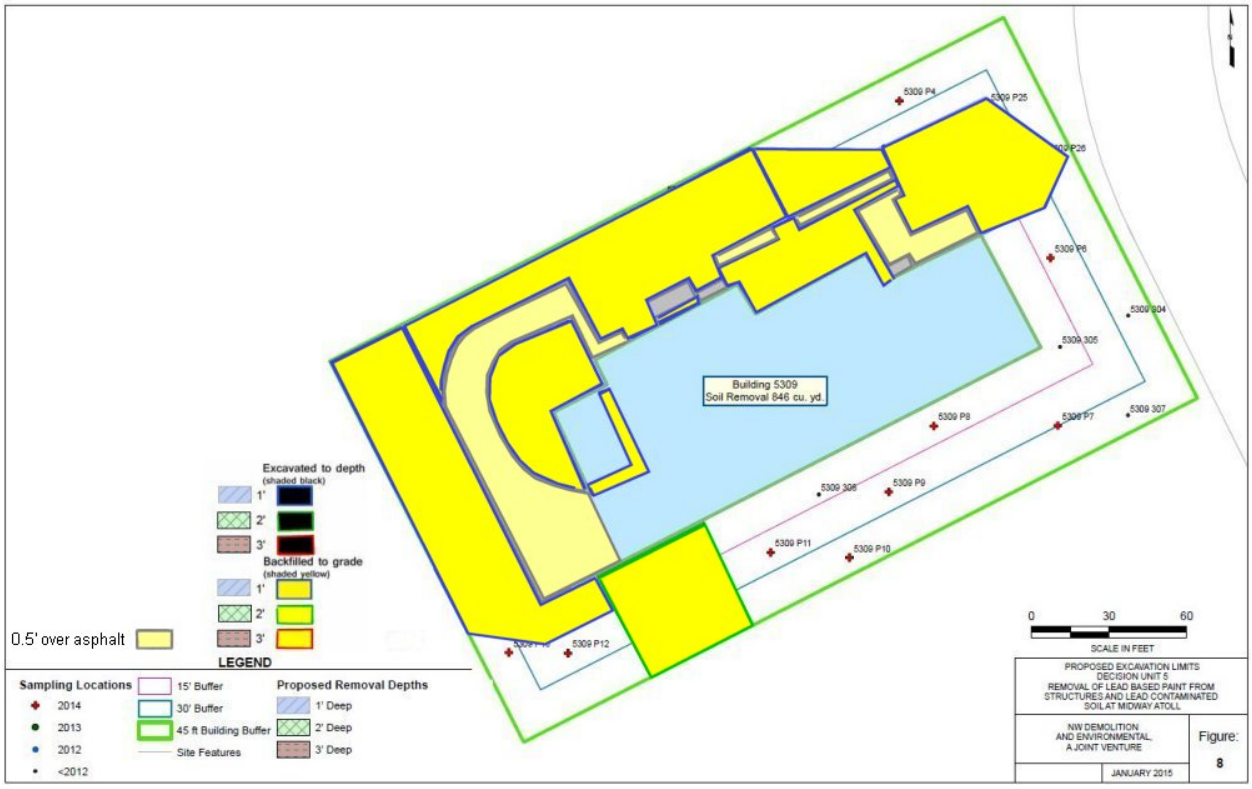
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.
2. P points 0-6" are a 5 point composite.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Map 3- Excavation Limits DU-8

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Tuesday, November 3, 2015
Prepared by: Scott Wakefield

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: High clouds, wind 12 mph, Temperature ~75F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	10
Ruth Inmon	NWDE Operator	10
Alan Phillips	NWDE Operator	10
Jevon Stone	NWDE Operator	10
Jose Ordaz	NWDE Operator	10
Jonathan Paul	NWDE Laborer	10
Carlos Sanchez	NWDE Operator	10

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
NWDE will finish R2 interim cover and close up of the west ramp.

0830 – The tasks for closing up the R2 for the end of the work season are finalizing the shade cloth placement, securing with sandbags and building the ramp lip on Cell 2 to a suitable elevation. The peak at the top of the ramp serves to retain winter rains within the R2 soils and not direct it to surface runoff to the west and taxi way drain. In 2014 the same approach of a peak at the ramp functioned successfully. The same manner of shade cloth, Dura-Skirm, clean sand and black sandbags is used to achieve the feature.

1000 – All four cells of the R2 are final for the season. Shade cloth is secure and above the treated soil. O&M of NWDE heavy equipment is ongoing this morning with cleaning, inspections and notations of required service for maintaining the machinery. Supplies in the shipping containers at the NAF staging area are arranged and required supplies for next year's work are noted.

1100 – The DBSI vac truck is started and DBSI facilities staff shows the operation of the equipment. A test section of soil will not be attempted as the truck's inner fender has previously pulled loose needs repaired prior to driving.

1200 – Lunch.

1300 – Cleaning of the 290B Volvo excavators, Cat mini and two Bobcat skidsteers are resumed.

1400 – Soil samples collected this season are finalized for packaging and paperwork.

1630 – Supplies, materials and equipment are staged back under the NAF Hanger roof where they will remain until the 2016 season. Some final wrap up still remains for closing out this year's maintenance of equipment and will be resumed tomorrow.

1730 – End of day.

Photographs:

Photo 01: Cargo Pier. View southwest. The beach sand is verified to not have low bird entrapment pits.

Photo 02: R2 west wall. View south. Shade cloth placement and securing black sand bags.

Photo 03: R2 Cell 2. View east. Shade cloth placement and securing black sand bags.

Photo 04: NAF Hanger. Vactor 2100 vac truck orientation.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
11/2/15	0	0	0	0	0	2619.5	0	0	3446.5
11/3/15	0	0	0	0	0	2619.5	0	0	3446.5
-End-									
Total to Date	1378 soil gallons	40 walls	657.5 soil^3	10 walls	524 soil gallons		243 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.
4. 10/30/15 Maectite spray 5 gallons each on S28 & S30 pads, left in place. Sump gravel hauled to R2 Cell 2 included in volume exported.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 2. Clean Backfill Total Estimates

Date /Loads		DU3 Clean Backfill Totals[2] Excavated and Placed Today in DU3 (cyd) Cargo Pier Source Area	Total to Date in DU3 (cyd)
10/5/15	56	840	1440
10/6/15	41	615	2055
10/7/15	3	45	2100
10/8/15	0	0	2100
10/9/15	0	0	2100
10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
10/12/15	65	975	975
10/13/15	0	0	0
10/14/15	0	0	0
10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
11/2/15	3	45	1410
-End-			
Total to date- 94 loads			

Notes:
A. – Backfill minimum 8" atop HDPE liner and excavation limits.

Date /Loads		DU5 R2 Buttress Clean Backfill Totals[2] Borrow Source Placed Today outside R2 walls (cyd) Cargo Pier Source Area	Total to Date buttress (cyd)
11/2/15	20	300	2235
-End-			
Total to date- 149 loads			

Notes:
A. Top elevation of buttress is roughly top of CMU block. Width is ~30'. Height of fill varies based on terrain at each wall.
B. R2 North buttress coral yardage = 1155 cuyds
C. R2 South buttress coral yardage = 330 cuyds
D. R2 East buttress coral yardage = 315 cuyds
E. R2 West buttress coral yardage = 435 cuyd

Notes: 1. Estimates are based on the number of gallons of Maectite applied.
2. Estimate is based on an average 15 CY of soil per truck load.

DU 3 – Bldg 414 (Midway House) 415, 416, 417, 418, 419, 421, 422, 423, 424
Bldg 4203 (Bravo) -4204 (Charlie) -4208, 4209, 4210, 4211, 4212,
DU 5 – Bldg 5309 (Transmitter) -5303 (R2) -5341, 5339, 5338
DU 8 – Fuel Farm S28, S30, 404, 406, 407

Table 3. Weekly Load Estimates

Date	Treated Concrete Loads	Clean Concrete Loads	Metal Debris Loads	Clean Wood Loads	DU3 /DU5 Wood Into R2	Clean coral backfill for R2 Ramp
11/2/15	0	0	0	0	0	0
11/3/15	0	0	0	0	0	0
-End-						

Table 4. Soil Sample Collection-

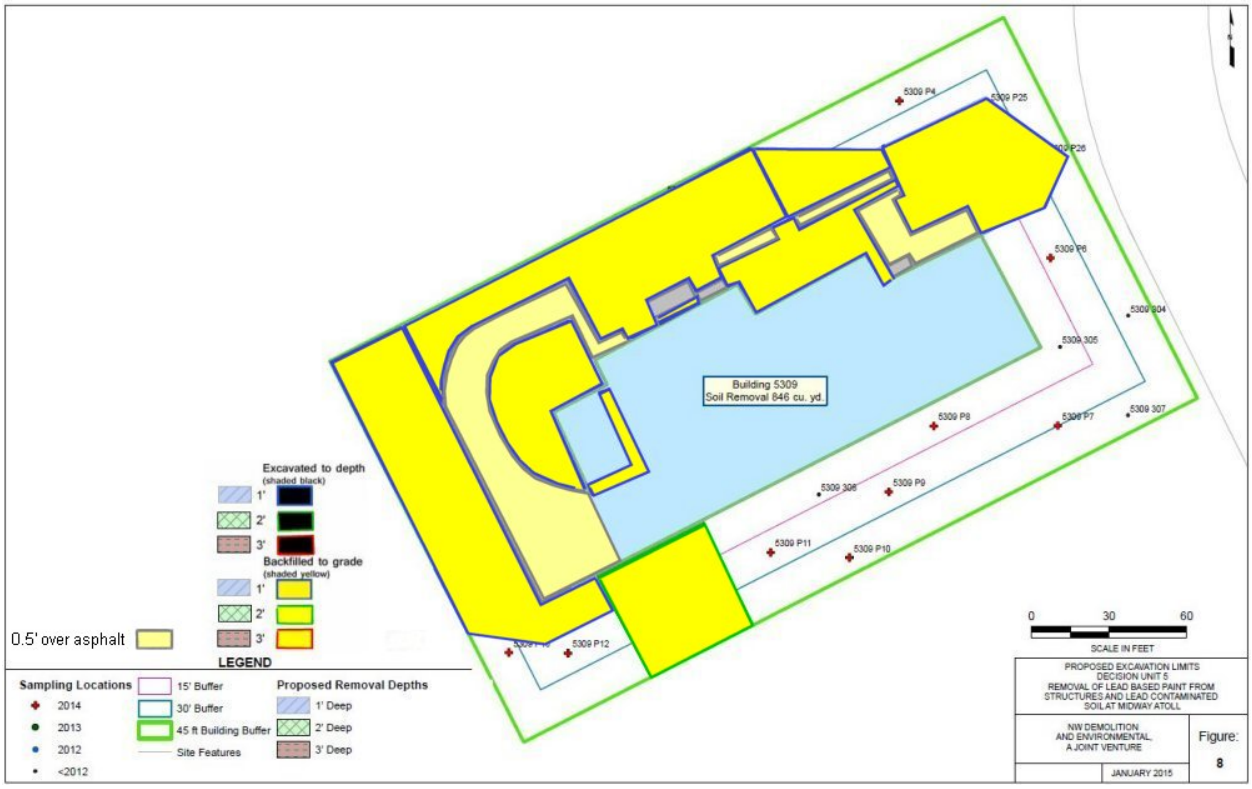
0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

Notes: 1. MIS confirmation sampling @ bottom of excavation specified MIS. Other sample IDs are 5 point composite 0-2" at small plots.
2. P points 0-6" are a 5 point composite.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Map 3- Excavation Limits DU-8

NW Demolition and Environmental
A Joint Venture

Daily Field Report

Date: Wednesday, November 4, 2015
Prepared by: Scott Wakefield

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: High clouds, wind 9 mph, Temperature ~75F.

Personnel:

Name	Company	Site Hours
Scott Wakefield	NWDE Field Oversight	10
Everett White	NWDE Supervisor	8
Ruth Inmon	NWDE Operator	8
Alan Phillips	NWDE Operator	8
Jevon Stone	NWDE Operator	8
Jose Ordaz	NWDE Operator	8
Jonathan Paul	NWDE Laborer	8
Carlos Sanchez	NWDE Operator	8

Visitors/Additional Site Personnel:

Name	Title
MaryAnn Amann	U.S. FWS

Equipment:

Description	Model No.	Comments
Pickup Truck	F350 Service Truck	NWDE
Flatbed Truck	Ford 450	NWDE
Container Truck	Peterbuilt	NWDE
Skid Steer	Bobcat S185	NWDE
Tracked Skid Steer	Bobcat T750	NWDE
Mini-Excavator	CAT 308	NWDE
2 – Excavator	Volvo EC290BLC	NWDE
2 – Off road Dump Truck	Volvo A30D	NWDE

Materials Delivered:

Description	QTY	Condition/Comments
Diesel	0 gallons	
Gasoline	0 gallons	

Description of Work:

0700 – NWDE conducts safety meeting.
Today is the last full day on island.

0800 – NWDE continues to finish maintenance work on the heavy equipment as the end of the work season closes down. Cleaning and corrosion protection of the hydraulic cylinder rods, engines, cabs and carriages is maintained throughout the day. The eleven pieces of equipment area staged under the NAF's high roof as per previous years to remain partially protected from sun and rain.

0830 – At the R2 Cells 1,2,3,4 elevations are taken of the treated soil surface relative to the top of the cement walls. This fall only Cells 1 and 2 received additional soils from Decision Units. Cells 3 and 4 remain relatively unchanged.
The tented shade cloth that is atop the south and partial east inner R2 walls has remained in place through the year. The wide trench under the tented cloth still remains open for a hydraulic relief to retain rains and be isolated from Laysan ducks. The goal is to reduce potential botulism conditions to the waterfowl.

0930 – Verify DU8 S28 and S30 have final field measurement and notations. Measure the low center point of the gravel pad for each former AST. Relative to the concrete perimeter footing the low gravel center point is -1.4' at a 50' radius.

Resume putting supplies and equipment away. Begin locking up containers. The one blue 20' container with the UP40 shear is positioned so DBSI can access it when a future barge is available to ship back to Honolulu for service.
Close up and lock all shipping containers.

1200 – Lunch.

1900 – At Charlie Barracks to depart on the G3 charter flight from PMDY to HNL.

2040 – Wheels up and NWDE departs Midway with a 3 hour ETA to Honolulu. The joint team work of Northwest Demolition, Iniki Enterprise and U.S. Fish and Wildlife have brought about a successful 2015 season.

Photographs:

Photo 01: R2. View southeast. Exterior wall clean coral sand stockpiles.

Photo 02: R2 west wall. View west. Peaked ridge at ramp entrance.

Photo 03: Cinco Air Charter. Night flight departure in the Gulfstream 3.

Photo 04: Black footed, Laysan and short-tailed Albatross benefit from LBP abatement work.

Photo 05: Laysan albatross closing out the 2015 Midway Atoll season.

Table 1. Maectite and Treated Soil Total Estimates

	Maectite Totals						**Treated Soil Totals**[1,2]		
	Applied Today (gal)					Total to Date	Excavated and Hauled to R-2 Unit **Today**		Excavated and Hauled to R-2 Unit **Total to Date**
Date	Soils (DU3)	Walls (DU3)	Soils (DU5)	Walls (DU5)	Soils (DU8)	(gal)	Load	^{3}yds[1]	^{3}yds[1]
11/2/15	0	0	0	0	0	2619.5	0	0	3446.5
11/3/15	0	0	0	0	0	2619.5	0	0	3446.5
-End-									
Total to Date	1378 soil gallons	40 walls	657.5 soil[3]	10 walls	524 soil gallons		243 loads		

Notes:
1. Estimates are based on the number of gallons of Maectite applied.
2. Soil treatment with Maectite and hauling to R2 may not occur on the same day.
3. Hauled to R2 excludes 61cuyd R2 NW plot soil treated and left in place. DU5 soils gallons minus 45 gallons backs out the plot left in place.
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10/10/15	0	0	0
Total to date- 140 loads			

Notes:
A. 2015 season ending import 2100cuyd, 10/10/15.

Date /Loads		DU5 Clean Backfill Totals[2] Excavated and Placed Today in DU5 (cyd) Cargo Pier Source Area	Total to Date in DU5 (cyd)
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10/15/15	0	0	0
10/16/15	0	0	0
10/17/15	9	135	1110
Total to date- 74 loads			

Notes:
A. – 2015 season ending import 1110cuyd, 10/17/15.

Date /Loads		DU8 Clean Backfill Totals[2] Excavated and Placed Today in DU8 (cyd) Cargo Pier Source Area	Total to Date in DU8 (cyd)
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-End-			
Total to date- 94 loads			

Notes:
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-End-			
Total to date- 149 loads			

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Table 3. Weekly Load Estimates

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11/3/15	0	0	0	0	0	0
-End-						

Table 4. Soil Sample Collection-

0 collection points / 0 Whirlpak samples collected today, 0 sample refused:

-	-	-
-	-	-

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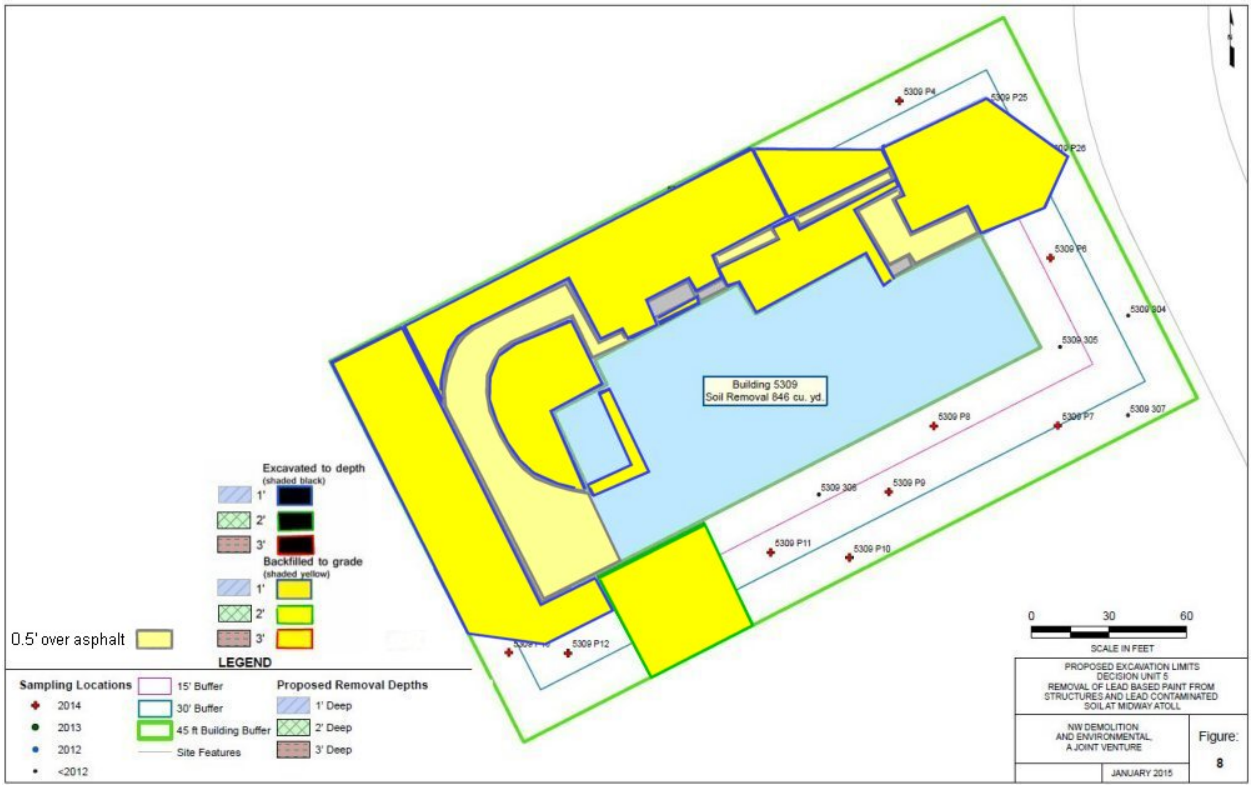
2. P points 0-6" are a 5 point composite.

Map 1- Excavation Limits DU-3

Map 2- Excavation Limits DU-5



Map 3- Excavation Limits DU-8

APPENDIX B

SELECT SITE PHOTOGRAPHS AND SITE PHOTOGRAPH SUMMARY DVD

Photo 1: 9/16/15 – View east. Building 423 small excavation plot.

Photo 2: 9/18/15 – View northeast. Building 421 soil has been treated and removed.

Photo 3: 9/19/15 – View southwest. Building 422 treated soil is hauled out with the A30 Volvo truck.

Photo 4: 9/21/15 – Building 419 Maectite® treated soil is loaded into the off road truck.

Photo 5: 9/21/15 – View northwest. Building 4203 Bravo is sprayed with Lead Stop® paint.

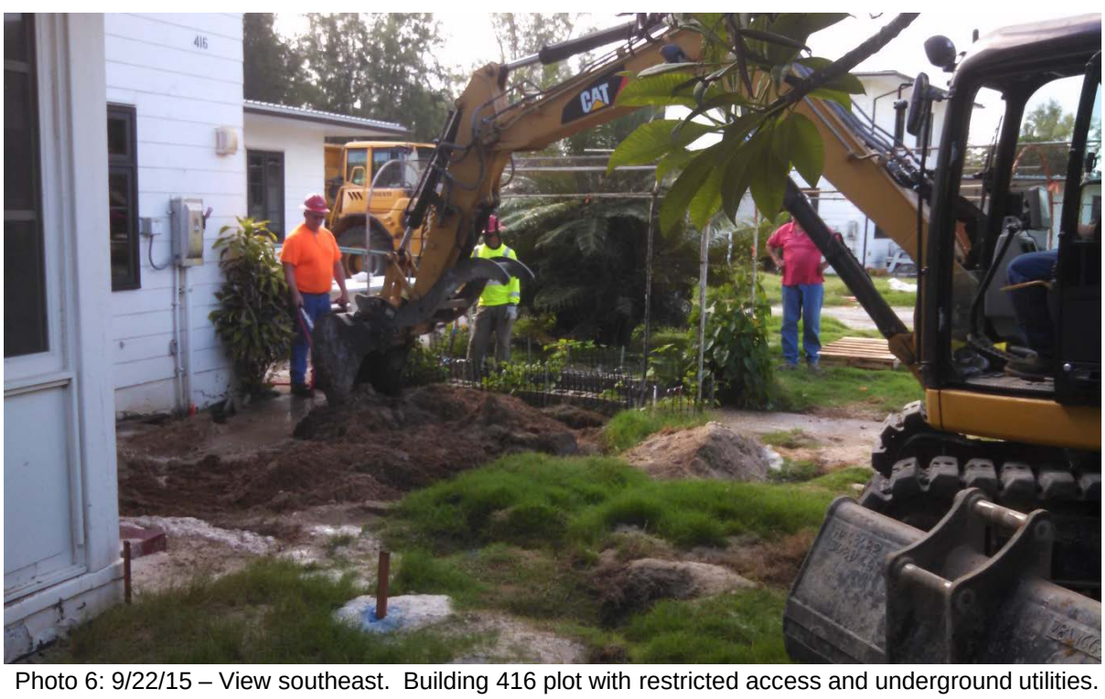


Photo 6: 9/22/15 – View southeast. Building 416 plot with restricted access and underground utilities.

Photo 7: 9/23/15 – View northwest. Building 415 patio area soil removal and larger west side plot.

Photo 8: 9/23/15 – View southeast. Building 415 shade cloth removal with Cat and placing poly sheeting to swing over while loading treated soil into the haul truck.

Photo 9: 9/25/15 – View west. Building 414 Midway House patio soil is mixed with Maectite® and water.

Photo 10: 9/26/15 – View southeast. Building 414 Midway House patio excavation plot.

Photo 11: 9/28/15 – View west. Building 5306 NAF south wall Maectite® application to LBP wall.

Photo 12: 9/28/15 – View west. Building 4204 Charlie soil treatment and loading.

Photo 13: 9/30/15 – View northwest. Building 5309 Transmitter Lead Stop® elastomeric paint applied.

Photo 14: 9/30/15 – View southeast. S28 JP-5 AST demo begins.

Photo 15: 10/1/15 – View east. S28 AST roof and floating roof are being processed with UP40 shear.

Photo 16: 10/1/15 – View northwest. 4203 Bravo second lift of Maectite® for LBP impacted soil.

Photo 17: 10/2/15 – View east. S28 AST tank is being processed and stockpiled. Foam from floating roof edge is piled in the foreground.

Photo 18: 10/2/15 – View northwest. Building 4203 Bravo deeper excavation plots.

Photo 19: 10/3/15 – View northeast. Clean sand borrow source area for backfill of excavated areas.

Photo 20: 10/3/15 – View southwest. Building 422 (left) excavation is being backfilled with clean backfill.

Photo 21: 10/3/15 – View north. Building 419 clean backfill placed in excavation limits.

Photo 22: 10/5/15 – View northeast. Building 4204 Charlie. Utilities are remarked with foil tracer tape during backfill work as clean coral sand is positioned.

Photo 23: 10/5/15 – View east. Building 414 Midway House backfill with limited overhead clearance.

Photo 24: 10/8/15 – View west. S30 AST (left) & S28 (right) progress of demolition.

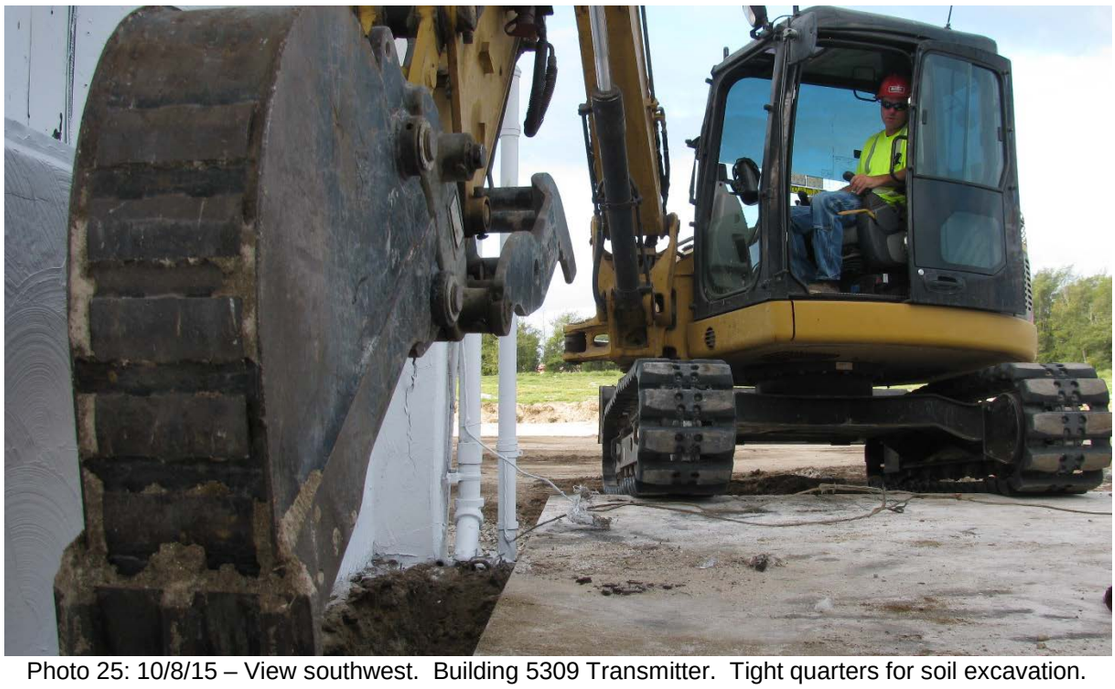


Photo 25: 10/8/15 – View southwest. Building 5309 Transmitter. Tight quarters for soil excavation.

Photo 26: 10/9/15 – View west. S30 AST material processing and stockpiling of mild steel.

Photo 27: 10/12/15 – View east. Building 5309 Transmitter with clean sand.

Photo 28: 10/13/15 – View northeast. Building 5309 Transmitter final Lead Stop® and backfill.

Photo 29: 10/15/15 – View northeast. DU8 JP-5 pipe removal and blind flange install for stub ups.

Photo 30: 10/15/15 – View north. S30 AST steel is sheared to manageable sizes for hauling to boneyard.

Photo 31: 10/16/15 – View southwest. Building 4204 Charlie recent clean backfill is planted with native Bunchgrass / Kāwelu by US Fish & Wildlife Service and DBSI for wind erosion control.

Photo 32: 10/19/15 – View southwest. Cargo Pier borrow source area. Note S28 and S30 have been dismantled in the background and only the smaller 404, 406, 407 AST's remain.

Photo 33: 10/24/15 – View east. S30 AST steel removed and excavation work in progress.

Photo 34: 10/28/15 – View west. S30 AST Maectite® soil treatment within DU8.

Photo 35: 10/30/15 – View east. S28 AST excavation near foundation is backfilled with clean sand.

Photo 36: 11/3/15 – View west. R2 Cell 1 and 2 interim cover for end of 2015 season.

APPENDIX C

INIKI MONITORING REPORTS

Hawaii Analytical Laboratory
ANALYTICAL REPORT

Wednesday, October 14, 2015

3615 Harding Avenue, Ste. 308, Honolulu, Hawaii 96816
Phone: (808) 735-0422

Mr. Gary Lewis
Iniki Enterprises, Ltd.
1040 Sand Island Parkway #100

Honolulu HI 96819

Phone Number: (808) 478-7683
Facsimile:
Email: gary@inikihawaii.com

Lab Job No: 20155312
Your Project: Midway Atoll (10/8/2015)

Lead, total (air filters)

NIOSH **Method:** 7082m LEAD by FAAS

Sample No.	Your Sample Description	Results	Units	Date Submitted	Date Analyzed
201526498	1- 9/16/15 - Garrick Arakaki 9099 Bravo	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526499	2- 9/16/15 - Mike Decarlo 4799 Bravo	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526500	1- 9/17/15 - Vincent Torrez 5537 Bravo	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526501	2- 9/17/15 - Eric Alcosiba 0448 Bravo	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526502	1- 9/18/15 - Garrick Arakaki 9099 Transmitter 5309	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526503	2- 9/18/15 - Eric Alcosiba 0448 Transmitter 5309	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526504	1- 9/19/15 - Garrick Arakaki 9099 Transmitter 5309	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					
201526505	2- 9/19/15 - Vincent Torrez 5537 Transmitter 5309	< 3.3	ug/m3	10/8/2015	10/14/2015
Comments					

Hawaii Analytical Laboratory, is an AIHA CAPT, IHLAP, ELLAP and EMLAP accredited laboratory (Accreditation No. 101812) in the scope of work listed on the AIHA website (www.aiha.org). Hawaii Analytical Laboratory is also an analytical facility accredited in accordance with the recognized ISO/ IEC 17025:2005.

Mr. Gary Lewis
Iniki Enterprises, Ltd.
1040 Sand Island Parkway #100

Honolulu HI 96819

Phone Number: (808) 478-7683
Facsimile:
Email: gary@inikihawaii.com

Lab Job No: 20155312
Your Project: Midway Atoll (10/8/2015)

Lead, total (air filters)

NIOSH **Method:** 7082m LEAD by FAAS

Sample No.	Your Sample Description	Results	Units	Date Submitted	Date Analyzed

All Quality Control data are acceptable unless otherwise noted.
MRL for lead air is 5ug.
MRL for lead wipe is 10ug.
MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.

General Comments
All analysts participate in interlaboratory quality control testing to continuously document profiency. The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the" analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. Concentration and TWA values have been calculated based on information supplied by the client that the laboratory cannot verify. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

Results and Symbols Definitions
> This testing result is greater than the numerical value listed.
< This testing result is less than the numerical value listed.
 # = Analytical methods marked with an "#" are not within our AIHA Scope of Accreditation.
MRL = Method Reporting Limit.

Ms. Eva Skogsberg
Section Supervisor

Hawaii Analytical Laboratory, is an AIHA CAPT, IHLAP, ELLAP and EMLAP accredited laboratory (Accreditation No. 101812) in the scope of work listed on the AIHA website (www.aiha.org). Hawaii Analytical Laboratory is also an analytical facility accredited in accordance with the recognized ISO/ IEC 17025:2005.

Lead AIR SAMPLING FIELD REPORT

Iniki Enterprises, Ltd
1040 Sand Island Pkwy., #100, Honolulu, HI 96819
PH (808) 677-7800 ~ FAX (808) 677-7882

312

Project Name: Midway Atoll
Site: Midway Atoll
Client Name: USFWS Northwest Demolition
Project #:

Samples Submitted By:
Print Name: Gary Lewis
Date: 10-08-2015

ID #	DATE	PUMP #	NAME & SS#, OR LOCATION	CTGY	TIME ON	TIME OFF	TOTAL MINS.	PRE LPM	POST LPM	FINAL LPM	AIR VLME	fibers/ field	CONC. f/cc	8 hr TWA f/cc
1	9-16-20	1	Garrick Arakaki 9099 Bravo		7:00	5:00	600	2.5	2.5	2.5	1500		201526498	
2	9-16-20	2	Mike Decarlo 4799 Bravo		7:00	5:00	600	2.5	2.5	2.5	1500		201526499	
1	9-17-20	1	Vincent Torrez 5537 Bravo		7:00	5:00	600	2.5	2.5	2.5	1500		201526500	
2	9-17-20	2	Eric Alcosiba 0448 Bravo		7:00	5:00	600	2.5	2.5	2.5	1500		201526501	
1	9-18-20	1	Garrick Arakaki 9099 Transmitter 5309		7:00	5:00	600	2.5	2.5	2.5	1500		201526502	
2	9-18-20	2	Eric Alcosiba 0448 Transmitter 5309		700	500	600	2.5	2.5	2.5	1500		201526503	
1	9-19-20	1	Garrick Arakaki 9099 Transmitter 5309		7:00	5:00	600	2.5	2.5	2.5	1500		201526504	
2	9-19-20	2	Vincent Torrez 5537 Transmitter 5309		7:00	5:00	600	2.5	2.5	2.5	1500		201526505	

CATEGORY

B	BACKGROUND	EX	EXCURSION	LB	LOT BLANK
C	CLEARANCE	FB	FIELD BLANK	OA	OUTSIDE AREA
ENV	ENVIRONMENTAL	IA	INSIDE AREA	P	PERSONAL

ANALYZED BY:
DATE:

REVIEWED BY:
DATE:

HAWAII ANALYTICAL LABORATORY, LLC

3615 Harding Avenue, Suite 308
Honolulu, HI 96816
Ph: 808-735-0422 - Fax: 808-735-0047
www.analyzehawaii.com

☐ New Client?

Report To*	: Gary Lewis
Company	: Iniki Enterprises Ltd
Address*	: 1040 Sand Island Parkway #100
	Honolulu, Hawaii 96819
Phone / Cell No.*	: 808-478-7683
Report results to	: gary@inikihawaii.com
via email or fax	:

Invoice To*	: Same
Company	:
Address*	:
Phone / Cell No.*	:
Purchase Order No.	:
Email Invoice To	:

Need Results By*:

- ☐ 5 Working Days (WD)
- ☑ 4 WD
- ☐ 3 WD
- ☐ 2 WD
- ☐ 24 hours
- ☐ 6 hours or less
- ☐ 4 hours or less
- ☐ 1-2 hours

Site/Project Name:	Client Project No.:	Sampled By:
Midway Atoll		

Comments / Special Instructions: ☐ verbal results needed?

PLM POSITIVE STOP Instructions:
- ☐ Positive stop per SAMPLE
- ☐ Positive stop per LAYER

LAB USE ONLY
Lab Report No.: 20155312

	Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1							201526498
2							201526499
3							201526500
4							201526501
5							201526502
6							201526503
7							201526504
8							201526505
9							
10							
11							
12							

Relinquished By (Print and Sign)	Date/Time	Received By (Print and Sign)	Date/Time
Gary Lewis	10-08-2015		1:10 10/8

Sample description can be paint chips, concrete, specific sample collection location, etc...
If matrix is 'soil', please specify if it is a FOREIGN SOIL SAMPLE (outside Hawaii) in the comment section.
All samples submitted are subject to Hawaii Analytical Laboratory terms and conditions.
*Required fields, failure to complete these fields may result in a delay in your samples being processed.

☐ via FedEx ☐ via USPS ☐ via .....

Page: _____ of _____

APPENDIX D

ANALYTICAL REPORTS AND QUALITY ASSURANCE REPORTS

APPENDIX D

CHEMICAL ANALYTICAL DATA AND QA/QC REVIEW

Data quality for field sampling methods was based on measurement quality criteria listed in the Work Plan and were checked using analytical results of field duplicate samples. For chemical analyses, established precision and accuracy protocols, combined with those outlined in the Quality Assurance Project Plan (QAPP) suffice for analytical data quality. The laboratory's QA manager was responsible for maintaining the method-defined and QAPP-defined quality assurance/quality control (QA/QC) criteria.

Samples

All samples obtained for chemical analysis were transferred into clean sample containers. Soil samples were collected in plastic Whirl-Pak® bags. Whirl-Pak® bags are equipped with a built-in wire for self-closing and they include a puncture-proof tab. The bags are also designed with a built in write-on strip for labeling purposes. In addition, pre-printed labels were used for sample identification.

Sufficient sample volume was obtained for the laboratory to complete the method-specific quality control (QC) analyses. Possession of the samples was documented by the chain-of-custody. The chain-of-custody forms were signed and dated in the appropriate places by parties involved with a transfer of custody. Each container was labeled by the field technician to avoid the possibility of misidentification. Each sample label contained the project name, project number, field sample identification, and sample date and sample time.

Upon receipt at the analytical laboratory, each sample was logged into tracking system. Each sample was assigned a unique laboratory identification number used by the laboratory for analysis assignment, sample tracking and data reporting. Upon receipt of the samples at the laboratory, the following procedures were followed. The custody seals were broken, the chain-of-custody form was signed by the laboratory personnel, and the conditions of the samples were recorded on the form. The original chain-of-custody form remained with the laboratory and copies were returned to the relinquishing party.

Field Quality Control

Field quality control measures included the collection of duplicate as well as documentation of field measurements and observations and field instrument calibration.

Field Duplicate Samples

Field duplicate samples were collected at a minimum frequency of 1 for every 20 samples (5 percent) per sampling event. In total, four duplicates were collected during the field activities.

Duplicate samples were collected to assess matrix homogeneity, sampling procedures and laboratory analytical consistency. The field duplicates were analyzed by the same analytical methods used for primary samples. Relative percent differences (RPDs) for field duplicates were calculated to assess the data precision and accuracy and potential variability caused by sample handling. Tables 2 and D-1 summarize the RPDs. The RPDs between the primary and field duplicate soil samples range from zero percent to over 180 percent. Field duplicate precision is normally considered acceptable when the RPD is less than 35 percent. While some of the RPDs were above these criteria, this is not unexpected because of the potential for a "nugget effect" when sampling soils contaminated with lead based paint. In addition higher RPDs are normally seen when evaluating lower detected concentrations.

The primary source of lead in the soils at Midway is associated with flaking lead based paint. As such, samples in close proximity (duplicates) may have higher RPDs due to the presence/absence of paint chips in a sample.

Documentation of Field Activities

Daily field activities, including observations, measurement data, and variations in field procedures were recorded on appropriate field forms. The original field forms are maintained in the Geosyntec office files. Copies of the completed forms were maintained in a binder and sequentially numbered field file for reference during field activities. Indelible ink was used for all documentation. Photographic documentation of field activities was performed as appropriate. The FWS was provided with copies of each daily field report and the photographic log.

Laboratory Quality Assurance

Analytical methods that were used for this project included total lead by EPA Method 6020 and multiple extraction procedure for lead.

Laboratory Quality Control

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The project team reviewed each analytical data packet and completed a QA/QC checklist for each analytical data packet. Overall, the data were of usable quality and no quality control issues were identified. A copy of the data review checklist is included in this Appendix.

TABLE D-1
2015 SOIL SAMPLING
RELATIVE PERCENT DIFFERENCES
MIDWAY ATOLL NWR

Sample Identification	Sample Date	Lead Concentration (mg/kg)	Relative Percent Difference
S30 -P1 0-6"	10/30/2015	24	182%
S30 -P2 0-6 DUP		1.1	
3126E-P5 0-6"	10/31/2015	28	19%
3126E-P5 0-6 DUP		34	
3126E-P5 12-18"	10/31/2015	27	0%
3126E-P5 12-18 DUP		27	
3126E-P5 24-30"	10/31/2015	16	0%
3126E-P5 24-30 DUP		16	

Notes

1. Lead was analyzed by Environmental Protection Agency Method 6010B.
2. Results based on wet weight.

mg/kg - milligram per kilogram

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2015

Completed by: Joey Hickey
Validation Date 12/21/2015
Reviewed by: Sean Ragain
Review Date 12/22/2015
Lab Report No: TestAmerica Seattle 580-54921-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			Soil and paint chip
Date and time of sampling specified for each sample?	x			Report was revised to correct the sample date in the laboratory report and to include the COC.
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?	x			Chain of custody shows no preservation other than temperature preservation
Analyses required specified? (including site specific instructions)	x			
Method of shipment specified?	x			FedEx
Signature(s), name(s) and affiliation(s) of field staff provided?	x			
Signature(s) and name(s) of recipient for lab provided?	x			
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The samples were collected over various times during the 2015 field season and delivered to the laboratory in November 2015. There was no impact on the data.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets was not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?		x		Due to the remote nature of the site, the samples were not stored on ice during the project. They were shipped to the laboratory with ice and received by the laboratory at temperatures below <4 degrees C. However, no qualifications were applied to the total lead data based on professional and technical judgment.
Samples arrived intact and without air bubbles for VOC samples?			x	
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?	x			
Analytical methods and analytes match those listed in QAP:	x			
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
EPA SW-846 1320/3010A/6010B Lead				
Sample Results				
Results provided for all samples and analyses on CoC?	x			
Date and time of analysis is reported for all samples and QA/QC samples?	x			
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?		x		No sample dilutions were performed.
Are RLs less than or equal to QAPP specified RLs except for diluted samples?	x			
Detected concentrations less than RL are reported as estimated concentrations?	x			
QA/QC Results				
Analytes not detected in method blanks?		x		Method(s) 6010B: Multiple method blanks in analytical batch 205575 and a method blank in analytical batch 205746 contained Pb above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re analysis of samples was not performed.
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?		x		The estimated concentrations of lead in samples S30 P2 0_6 DUP, 3127-P3 24_30" and 3127W-P5 24_30" had lead detected above 5x the blank detection. However, each was detected at below the reporting limit.
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?		x		MS/MSD pairs were not reported.
MS/MSD pre-spike concentration, amount added, %R and RPD reported?			x	
MS/MSD meet QC acceptance criteria in QAP?			x	
LCS/LCSD meet lab QC acceptance criteria?	x			Three LCS/LCSD pairs were reported. All met the lab QC limits.
Laboratory duplicates meet frequency criteria in QAPP (1 in 20)?	x			
Laboratory duplicates meet lab QC acceptance criteria?	x			
Field duplicates meet frequency criteria in QAP (1 in 20)?	x			
Field duplicates meet QC acceptance criteria in QAP?		x		RPDs exceeded 35% in limited samples. Not unexpected because of the potential nugget effect when sampling soils with lead based paint chips.

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2015

Completed by: Joey Hickey
Validation Date 12/21/2015
Reviewed by: Sean Ragain
Review Date 12/22/2015
Lab Report No: TestAmerica Seattle 580-54921-1

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAPP?			x	An equipment blank was reported with the data set, however it is not a QAPP requirement.
Analytes not detected in equipment rinse blanks?	x			An equipment rinse blank was reported. Lead was not detected above the MDL in the equipment rinse blank.
Case Narrative				
Completely addresses any lab QC results outside QC limits?			x	
Completeness for laboratory measurements is $\geq$ 90%?	x			
Overall completeness is $\geq$ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			
Data qualifiers used in lab report are explained in lab report?	x			
Electronic data match the lab report?	x			

Chronology of Lab Report Revisions	
Date of first lab report:	11/19/2015
Revisions - Date and nature of revisions requested:	N/A
Revisions Received:	
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
RL - reporting limit (or quantitation limit)
RPD - relative percent difference
%R - percent recovery

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2015

Completed by: Joey Hickey
Validation Date 12/30/2015
Reviewed by: Sean Ragain
Review Date 12/30/2015
Lab Report No: TestAmerica Seattle 580-54921-2

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Chain of Custody				
Project name provided?	x			
Sample matrix specified?	x			soil
Date and time of sampling specified for each sample?	x			
Number and size/type of containers specified?		x		The container types were not specified. There was no impact on the data, so no qualifications were applied to the data.
Preservative(s) specified?	x			Chain of custody shows no preservation other than temperature preservation
Analyses required specified? (including site specific instructions)	x			
Method of shipment specified?	x			FedEx
Signature(s), name(s) and affiliation(s) of field staff provided?	x			
Signature(s) and name(s) of recipient for lab provided?	x			
Date & time of receipt by lab provided?	x			
Samples delivered to lab within 48 hours of collection?		x		The samples were collected over various times during the 2015 field season and delivered to the laboratory in November 2015. There was no impact on the data.
Sample Receipt and Log In				
Completed CoC and log-in sheets sent to Geosyntec within 24 hours of receipt by lab?			x	Sending CoC and log sheets was not a QAP requirement.
Cooler temperature $\leq 4 \pm 2$ ºC?		x		Due to the remote nature of the site, the samples were not stored on ice during the project. They were shipped to the laboratory with ice and received by the laboratory at temperatures below <4 degrees C. However, no qualifications were applied to the total lead data based on professional and technical judgment.
Samples arrived intact and without air bubbles for VOC samples?			x	
Custody seal intact?	x			
Field sample IDs on log-in sheets match CoC?	x			
Analytical methods and analytes match those listed in QAP:	x			
List each analytical method here. Make sure that you have specified appropriate analyte list (e.g., PP, TAL, Site Specific, etc.)				
6010C Leach (MEP)				
Sample Results				
Results provided for all samples and analyses on CoC?	x			
Date and time of analysis is reported for all samples and QA/QC samples?	x			
Samples were analyzed within the holding time: Metals (Lead) within 180 days	x			
Units specified with reported results?	x			
Dilutions specified?	x			
RLs adjusted for dilutions?		x		No sample dilutions were performed.
Are RLs less than or equal to QAPP specified RLs except for diluted samples?	x			
Detected concentrations less than RL are reported as estimated concentrations?	x			
QA/QC Results				
Analytes not detected in method blanks?	x			
Compounds detected in method blanks are only detected in samples at concentrations > 5x method blank concentration?			x	
Surrogate recoveries meet lab QC acceptance criteria?			x	
MS/MSD meet frequency criteria in QAP (1 in 20)?		x		MS/MSD pairs were not reported.
MS/MSD pre-spike concentration, amount added, %R and RPD reported?			x	
MS/MSD meet QC acceptance criteria in QAP?			x	
LCS/LCSD meet lab QC acceptance criteria?	x			LCS/LCSD pairs were reported. All met the lab QC limits.
Laboratory duplicates meet frequency criteria in QAPP (1 in 20)?			x	Single sample, no lab duplicates were used.
Laboratory duplicates meet lab QC acceptance criteria?			x	
Field duplicates meet frequency criteria in QAP (1 in 20)?			x	Single sample, no field duplicates were collected.
Field duplicates meet QC acceptance criteria in QAP?			x	
Trip blanks meet frequency criteria in QAP (1/day, VOCs only)?			x	
VOCs not detected in trip blanks?			x	
Equipment rinse blanks meet frequency criteria in QAPP?			x	An equipment blank was reported with the data set, however it is not a QAPP requirement.

DATA VALIDATION CHECKLIST
Midway Soil Sampling 2015

Completed by: Joey Hickey
Validation Date 12/30/2015
Reviewed by: Sean Ragain
Review Date 12/30/2015
Lab Report No: TestAmerica Seattle 580-54921-2

Item	*Yes*	*No*	*N/A*	*Comments / Action Taken*
Analytes not detected in equipment rinse blanks?	x			An equipment rinse blank was reported . Lead was not detected above the MDL in the equipment rinse blank.
Case Narrative				
Completely addresses any lab QC results outside QC limits?			x	
Completeness for laboratory measurements is ≥ 90%?	x			
Overall completeness is ≥ 85%?	x			
Audit/Performance Evaluation Samples				
Performance evaluation samples meet frequency criteria in QAP?			x	
Performance evaluation samples meet QC acceptance criteria in			x	
Other				
Lab report number specified?	x			
Lab report signed by lab manager?	x			
Data qualifiers used in lab report are explained in lab report?	x			
Electronic data match the lab report?	x			

Chronology of Lab Report Revisions	
Date of first lab report:	11/29/2015
Revisions - Date and nature of revisions requested:	N/A
Revisions Received:	
Revisions - Date and nature of revisions requested:	
Revisions Received:	
Date of receipt of correct and complete lab report:	

Notes:
CoC - chain-of-custody
LCS/LCSD - laboratory control spike / laboratory control spike duplicate
MS/MSD - matrix spike/matrix spike duplicate
N/A - not applicable
QAP - quality assurance plan
RL - reporting limit (or quantitation limit)
RPD - relative percent difference
%R - percent recovery

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-54921-1
TestAmerica Sample Delivery Group: Midway Atoll
Client Project/Site: Midway Soil Sampling 2015

For:
Geosyntec Consultants, Inc.
621 Morrison Street
Suite 600
Portland, Oregon 97205

Attn: Joey Hickey

Authorized for release by:
11/19/2015 4:20:01 PM

Christabel Escarez, Project Manager I
(253)922-2310
christabel.escarez@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-54921-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-54921-1

Comments
No additional comments.

Receipt
The samples were received on 11/6/2015 10:30 AM; the samples arrived in good condition, properly preserved, and on ice. The temperatures of the 3 coolers at receipt time were 2.7º C, 2.7º C and 3.5º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): 3126E-P5 0-6" DUP (580-54921-57), 3126E-P5 12-18" DUP (580-54921-58), and 3126E-P5 24-30" DUP (580-54921-59). The container labels list "DUP" after the IDs, while the COC lists just the IDs. The IDs on the COC have been modified to include the designation DUP for the three samples and they are logged in accordingly.

Metals
Method(s) 6010B: Multiple method blanks in analytical batch 205575 and a method blank in analytical batch 205746 contained Pb above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-analysis of samples was not performed.

Method(s) 3005A: The sample Trip Blank (580-54921-129) is not nitric preserved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F3	Duplicate RPD exceeds the control limit

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 424P100 0-2"

Lab Sample ID: 580-54921-1

Date Collected: 09/26/15 08:20

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1	J B F2	1.4	0.091	mg/Kg		11/11/15 13:03	11/12/15 16:02	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 424P100 0-2" DUP

Lab Sample ID: 580-54921-2

Date Collected: 09/26/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1	J B	1.3	0.083	mg/Kg		11/11/15 13:03	11/12/15 16:25	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 424P101 0-2"

Lab Sample ID: 580-54921-3

Date Collected: 09/26/15 08:44
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14	B	1.5	0.094	mg/Kg		11/11/15 13:03	11/12/15 16:28	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 424P101 0-2" DUP

Lab Sample ID: 580-54921-4

Date Collected: 09/26/15 08:44
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16	B	1.3	0.081	mg/Kg		11/11/15 13:03	11/12/15 16:32	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 423P100 0-2"

Lab Sample ID: 580-54921-5

Date Collected: 09/26/15 09:29
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.0	B	1.4	0.090	mg/Kg		11/11/15 13:03	11/12/15 16:35	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 423P100 0-2" DUP

Lab Sample ID: 580-54921-6

Date Collected: 09/26/15 09:29
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.1	B	1.3	0.085	mg/Kg		11/11/15 13:03	11/12/15 16:38	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 422P100 0-2"

Lab Sample ID: 580-54921-7

Date Collected: 09/26/15 09:45
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	50	B	1.4	0.089	mg/Kg		11/11/15 13:03	11/12/15 16:42	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 422P100 0-2" DUP

Lab Sample ID: 580-54921-8

Date Collected: 09/26/15 09:45
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	B	1.3	0.084	mg/Kg		11/11/15 13:03	11/12/15 16:45	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 419 MIS 0-2"

Lab Sample ID: 580-54921-9

Date Collected: 09/26/15 10:52
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	82	B	1.1	0.072	mg/Kg		11/11/15 13:03	11/12/15 16:49	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 419 MIS 0-2" DUP

Lab Sample ID: 580-54921-10

Date Collected: 09/26/15 11:15
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.1	B	1.2	0.078	mg/Kg		11/11/15 13:03	11/12/15 16:52	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 419 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-11

Date Collected: 09/26/15 11:33
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.7	B	1.1	0.071	mg/Kg		11/11/15 13:03	11/12/15 16:55	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 421 MIS 0-2"

Lab Sample ID: 580-54921-12

Date Collected: 09/28/15 10:27
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.6	B	1.4	0.087	mg/Kg		11/11/15 13:03	11/12/15 17:05	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 421 MIS 0-2" DUP

Lab Sample ID: 580-54921-13

Date Collected: 09/28/15 10:44
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.7	B	1.2	0.079	mg/Kg		11/11/15 13:03	11/12/15 17:08	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 421 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-14

Date Collected: 09/28/15 10:57
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.9	B	1.4	0.091	mg/Kg		11/11/15 13:03	11/12/15 17:12	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 415 MIS 0-2"

Lab Sample ID: 580-54921-15

Date Collected: 09/28/15 14:07
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11	B	1.2	0.077	mg/Kg		11/11/15 13:03	11/12/15 17:15	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 415 MIS 0-2" DUP

Lab Sample ID: 580-54921-16

Date Collected: 09/28/15 14:27
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	50	B	1.2	0.074	mg/Kg		11/11/15 13:03	11/12/15 17:19	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 415 MIS 0-2" TRIPLICATE

Lab Sample ID: 580-54921-17

Date Collected: 09/30/15 14:35
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18	B	1.2	0.078	mg/Kg		11/11/15 13:03	11/12/15 17:22	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4208P100 0-2"

Lab Sample ID: 580-54921-18

Date Collected: 10/02/15 10:15
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.2	B	1.4	0.089	mg/Kg		11/11/15 14:14	11/12/15 17:47	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4208P100 0-2" DUP

Lab Sample ID: 580-54921-19

Date Collected: 10/02/15 10:15
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6	B	1.2	0.079	mg/Kg		11/11/15 13:06	11/12/15 17:25	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4208P101 0-2"

Lab Sample ID: 580-54921-20

Date Collected: 10/02/15 11:08

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33	B	1.4	0.092	mg/Kg		11/11/15 14:14	11/12/15 18:10	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4208P101 0-2" DUP

Lab Sample ID: 580-54921-21

Date Collected: 10/02/15 11:08

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30	B	1.2	0.076	mg/Kg		11/11/15 14:14	11/12/15 18:13	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 414 MIS 0-2"

Lab Sample ID: 580-54921-22

Date Collected: 10/02/15 12:20
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15	B	1.2	0.078	mg/Kg		11/11/15 14:14	11/12/15 18:17	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 414 MIS 0-2" DUP

Lab Sample ID: 580-54921-23

Date Collected: 10/02/15 12:36
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		1.4	0.087	mg/Kg		11/12/15 07:01	11/12/15 19:34	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 414 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-24

Date Collected: 10/02/15 12:58
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19	B	1.4	0.086	mg/Kg		11/11/15 14:14	11/12/15 18:20	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S1126 BLUE CHIP

Lab Sample ID: 580-54921-25

Date Collected: 10/03/15 12:40
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	85	B	1.5	0.093	mg/Kg		11/11/15 14:14	11/12/15 18:23	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S1126 WHITE CHIP

Lab Sample ID: 580-54921-26

Date Collected: 10/03/15 12:44
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	91	B	1.4	0.088	mg/Kg		11/11/15 14:14	11/12/15 18:27	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4204 MIS 0-2"

Lab Sample ID: 580-54921-27

Date Collected: 10/03/15 14:01
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.3	B	1.4	0.089	mg/Kg		11/11/15 14:14	11/12/15 18:31	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4204 MIS 0-2" DUP

Lab Sample ID: 580-54921-28

Date Collected: 10/03/15 14:21
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.3	B	1.2	0.077	mg/Kg		11/11/15 14:14	11/12/15 18:35	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4204 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-29

Date Collected: 10/03/15 14:39
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.2	B	1.2	0.076	mg/Kg		11/11/15 14:14	11/12/15 18:38	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4203 MIS 0-2"

Lab Sample ID: 580-54921-30

Date Collected: 10/05/15 09:15

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.3	B	1.1	0.073	mg/Kg		11/11/15 14:14	11/12/15 18:48	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4203 MIS 0-2" DUP

Lab Sample ID: 580-54921-31

Date Collected: 10/05/15 09:24
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.70	J B	1.3	0.081	mg/Kg		11/11/15 14:14	11/12/15 18:55	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4203 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-32

Date Collected: 10/05/15 09:42
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.99	J B	1.4	0.087	mg/Kg		11/11/15 14:14	11/12/15 18:59	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 5309 MIS A 0-2"

Lab Sample ID: 580-54921-33

Date Collected: 10/09/15 13:03
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13	B	1.3	0.081	mg/Kg		11/11/15 14:14	11/12/15 19:02	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 5309 MIS A 0-2" DUP

Lab Sample ID: 580-54921-34

Date Collected: 10/09/15 13:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15	B	1.1	0.069	mg/Kg		11/11/15 14:14	11/12/15 19:06	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 5309 MIS A 0-2" Triplicate

Lab Sample ID: 580-54921-35

Date Collected: 10/09/15 13:38
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19	B	1.3	0.086	mg/Kg		11/11/15 14:14	11/12/15 19:09	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 5309 MIS B 0-2"

Lab Sample ID: 580-54921-36

Date Collected: 10/12/15 07:40
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.8	B	1.5	0.095	mg/Kg		11/11/15 14:14	11/12/15 19:13	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 5309 MIS B 0-2" DUP

Lab Sample ID: 580-54921-37

Date Collected: 10/12/15 07:54
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.6		1.4	0.089	mg/Kg		11/12/15 07:01	11/12/15 20:00	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 5309 MIS B 0-2" Triplicate

Lab Sample ID: 580-54921-38

Date Collected: 10/12/15 08:08
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		1.3	0.083	mg/Kg		11/12/15 07:01	11/12/15 20:04	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 MIS A NE 0-2"

Lab Sample ID: 580-54921-39

Date Collected: 10/16/15 17:15
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.0		1.4	0.087	mg/Kg		11/12/15 07:01	11/12/15 20:07	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 MIS A NE 0-2" DUP

Lab Sample ID: 580-54921-40

Date Collected: 10/16/15 17:25
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.3		1.3	0.081	mg/Kg		11/12/15 07:01	11/12/15 20:10	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 MIS A NE 0-2" Triplicate

Lab Sample ID: 580-54921-41

Date Collected: 10/16/15 17:35
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.1		1.3	0.085	mg/Kg		11/12/15 07:01	11/12/15 20:14	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 MIS B NE 0-2"

Lab Sample ID: 580-54921-42

Date Collected: 10/16/15 16:18
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44		1.3	0.086	mg/Kg		11/12/15 07:01	11/12/15 20:18	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 MIS B NE 0-2" DUP

Lab Sample ID: 580-54921-43

Date Collected: 10/16/15 16:34
Date Received: 11/06/15 10:30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	45		1.3	0.084	mg/Kg		11/12/15 07:01	11/12/15 20:21	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 MIS B NE 0-2" Triplicate

Lab Sample ID: 580-54921-44

Date Collected: 10/16/15 16:47
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	52		1.3	0.083	mg/Kg		11/12/15 07:01	11/12/15 20:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P2 0-6"

Lab Sample ID: 580-54921-45

Date Collected: 10/31/15 07:55
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3100	B	1.2	0.077	mg/Kg		11/11/15 14:14	11/12/15 18:51	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P2 12-18"

Lab Sample ID: 580-54921-46

Date Collected: 10/31/15 07:55
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	150		1.4	0.087	mg/Kg		11/12/15 07:01	11/12/15 20:34	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P2 24-30"

Lab Sample ID: 580-54921-47

Date Collected: 10/31/15 07:55
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	53		1.3	0.086	mg/Kg		11/12/15 07:01	11/12/15 20:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P3 0-6"

Lab Sample ID: 580-54921-48

Date Collected: 10/31/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	28		1.3	0.084	mg/Kg		11/12/15 07:01	11/12/15 20:40	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P3 12-18"

Lab Sample ID: 580-54921-49

Date Collected: 10/31/15 08:20

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		1.4	0.089	mg/Kg		11/12/15 07:01	11/12/15 20:44	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P3 24-30"

Lab Sample ID: 580-54921-50

Date Collected: 10/31/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		1.4	0.089	mg/Kg		11/12/15 07:01	11/12/15 20:47	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P4 0-6"

Lab Sample ID: 580-54921-51

Date Collected: 10/31/15 08:41
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	63		1.3	0.085	mg/Kg		11/12/15 07:01	11/12/15 20:51	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P4 12-18"

Lab Sample ID: 580-54921-52

Date Collected: 10/31/15 08:41

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	80		1.4	0.087	mg/Kg		11/12/15 07:01	11/12/15 20:54	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P4 24-30"

Lab Sample ID: 580-54921-53

Date Collected: 10/31/15 08:41
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	28		1.4	0.089	mg/Kg		11/12/15 07:01	11/12/15 20:57	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P5 0-6"

Lab Sample ID: 580-54921-54

Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	28	B F1	1.4	0.088	mg/Kg		11/12/15 08:36	11/12/15 21:19	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P5 12-18"

Lab Sample ID: 580-54921-55

Date Collected: 10/31/15 09:05

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	B	1.4	0.088	mg/Kg		11/12/15 08:36	11/12/15 21:42	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P5 24-30"

Lab Sample ID: 580-54921-56

Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16	B	1.3	0.085	mg/Kg		11/12/15 08:36	11/12/15 21:45	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P5 0-6" DUP

Lab Sample ID: 580-54921-57

Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	34	B	1.4	0.088	mg/Kg		11/12/15 08:36	11/12/15 21:49	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P5 12-18" DUP

Lab Sample ID: 580-54921-58

Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	B	1.4	0.089	mg/Kg		11/12/15 08:36	11/12/15 21:52	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3126E-P5 24-30" DUP

Lab Sample ID: 580-54921-59

Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16	B	1.3	0.086	mg/Kg		11/12/15 08:36	11/12/15 21:56	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P1 0-6"

Lab Sample ID: 580-54921-60

Date Collected: 10/31/15 09:50
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23	B	1.3	0.083	mg/Kg		11/12/15 08:36	11/12/15 21:59	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P1 12-18"

Lab Sample ID: 580-54921-61

Date Collected: 10/31/15 09:50
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21	B	1.4	0.089	mg/Kg		11/12/15 08:36	11/12/15 22:02	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P1 24-30"

Lab Sample ID: 580-54921-62

Date Collected: 10/31/15 09:50
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.9	B	1.3	0.083	mg/Kg		11/12/15 08:36	11/12/15 22:06	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P3 0-6"

Lab Sample ID: 580-54921-63

Date Collected: 10/31/15 10:14

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	60	B	1.4	0.087	mg/Kg		11/12/15 08:36	11/12/15 22:09	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P3 12-18"

Lab Sample ID: 580-54921-64

Date Collected: 10/31/15 10:14
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	65	B	1.3	0.082	mg/Kg		11/12/15 08:36	11/12/15 22:19	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P3 24-30"

Lab Sample ID: 580-54921-65

Date Collected: 10/31/15 10:14
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.68	J B	1.3	0.085	mg/Kg		11/12/15 08:36	11/12/15 22:22	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P4 0-6"

Lab Sample ID: 580-54921-66

Date Collected: 10/31/15 10:36
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54	B	1.3	0.086	mg/Kg		11/12/15 08:36	11/12/15 22:26	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P4 12-18"

Lab Sample ID: 580-54921-67

Date Collected: 10/31/15 10:36
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	43	B	1.3	0.086	mg/Kg		11/12/15 08:36	11/12/15 22:29	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P4 24-30"

Lab Sample ID: 580-54921-68

Date Collected: 10/31/15 10:36
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.3	B	1.4	0.087	mg/Kg		11/12/15 08:36	11/12/15 22:32	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P5 0-6"

Lab Sample ID: 580-54921-69

Date Collected: 10/31/15 11:07

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15	B	1.3	0.084	mg/Kg		11/12/15 08:36	11/12/15 22:36	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P5 12-18"

Lab Sample ID: 580-54921-70

Date Collected: 10/31/15 11:07
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.1	B	1.3	0.085	mg/Kg		11/12/15 08:36	11/12/15 22:39	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P5 24-30"

Lab Sample ID: 580-54921-71

Date Collected: 10/31/15 11:07
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.6	B	1.2	0.080	mg/Kg		11/12/15 13:41	11/13/15 00:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P2 0-6"

Lab Sample ID: 580-54921-72

Date Collected: 10/31/15 12:43
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200	B	1.5	0.094	mg/Kg		11/12/15 13:41	11/13/15 01:00	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P2 12-18"

Lab Sample ID: 580-54921-73

Date Collected: 10/31/15 12:43
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	400	B	1.4	0.087	mg/Kg		11/12/15 13:41	11/13/15 01:03	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P2 24-30"

Lab Sample ID: 580-54921-74

Date Collected: 10/31/15 12:43
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110	B	1.3	0.086	mg/Kg		11/12/15 13:41	11/13/15 01:07	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P4 0-6"

Lab Sample ID: 580-54921-75

Date Collected: 10/31/15 13:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120	B	1.5	0.093	mg/Kg		11/12/15 13:41	11/13/15 01:10	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P4 12-18"

Lab Sample ID: 580-54921-76

Date Collected: 10/31/15 13:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	55	B	1.2	0.076	mg/Kg		11/12/15 13:41	11/13/15 01:13	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P4 24-30"

Lab Sample ID: 580-54921-77

Date Collected: 10/31/15 13:05
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20	B	1.4	0.088	mg/Kg		11/12/15 13:41	11/13/15 01:17	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P5 0-6"

Lab Sample ID: 580-54921-78

Date Collected: 10/31/15 13:33
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	320	B	1.4	0.088	mg/Kg		11/12/15 13:41	11/13/15 01:20	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P5 12-18"

Lab Sample ID: 580-54921-79

Date Collected: 10/31/15 13:33
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200	B	1.4	0.092	mg/Kg		11/12/15 13:41	11/13/15 01:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P5 24-30"

Lab Sample ID: 580-54921-80

Date Collected: 10/31/15 13:33
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140	B	1.4	0.088	mg/Kg		11/12/15 13:41	11/13/15 01:27	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P8 0-6"

Lab Sample ID: 580-54921-81

Date Collected: 10/31/15 13:51
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	270	B	1.4	0.087	mg/Kg		11/12/15 13:41	11/13/15 01:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P8 12-18"

Lab Sample ID: 580-54921-82

Date Collected: 10/31/15 13:51
Date Received: 11/06/15 10:30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27	B	1.4	0.092	mg/Kg		11/12/15 13:41	11/13/15 01:40	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P8 24-30"

Lab Sample ID: 580-54921-83

Date Collected: 10/31/15 13:51
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18	B	1.1	0.068	mg/Kg		11/12/15 13:41	11/13/15 01:44	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 Gravel Pad

Lab Sample ID: 580-54921-84

Date Collected: 10/30/15 09:45
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.8	B	1.5	0.094	mg/Kg		11/12/15 13:41	11/13/15 01:47	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 Gravel Pad

Lab Sample ID: 580-54921-85

Date Collected: 10/30/15 16:01
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	41	B	1.3	0.082	mg/Kg		11/12/15 13:41	11/13/15 01:50	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P1 0-6"

Lab Sample ID: 580-54921-86

Date Collected: 10/29/15 12:55
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	54	B	1.4	0.089	mg/Kg		11/12/15 13:41	11/13/15 01:53	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P2 0-6"

Lab Sample ID: 580-54921-87

Date Collected: 10/29/15 13:04
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	480	B	1.3	0.084	mg/Kg		11/12/15 13:41	11/13/15 01:56	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P3 0-6"

Lab Sample ID: 580-54921-88

Date Collected: 10/29/15 13:13
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	61	B	1.4	0.091	mg/Kg		11/12/15 13:51	11/13/15 16:01	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P4 0-6"

Lab Sample ID: 580-54921-89

Date Collected: 10/29/15 13:41
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21	B	1.5	0.094	mg/Kg		11/12/15 13:51	11/13/15 16:04	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P5 0-6"

Lab Sample ID: 580-54921-90
Date Collected: 10/29/15 13:49
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	59	B	1.4	0.090	mg/Kg		11/12/15 13:51	11/13/15 16:07	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P6 0-6"

Lab Sample ID: 580-54921-91

Date Collected: 10/29/15 14:03

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	38	B F1	1.4	0.090	mg/Kg		11/12/15 09:39	11/12/15 23:01	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P7 0-6"

Lab Sample ID: 580-54921-92

Date Collected: 10/29/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24	B	1.4	0.089	mg/Kg		11/12/15 09:39	11/12/15 23:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P8 0-6"

Lab Sample ID: 580-54921-93

Date Collected: 10/29/15 14:44

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30	B	1.4	0.088	mg/Kg		11/12/15 09:39	11/12/15 23:28	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P9 0-6"

Lab Sample ID: 580-54921-94

Date Collected: 10/29/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	65	B	1.5	0.095	mg/Kg		11/12/15 09:39	11/12/15 23:31	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P10 0-6"

Lab Sample ID: 580-54921-95

Date Collected: 10/29/15 14:56
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25	B	1.4	0.088	mg/Kg		11/12/15 09:39	11/12/15 23:34	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P11 0-6"

Lab Sample ID: 580-54921-96

Date Collected: 10/29/15 15:02
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19	B	1.5	0.093	mg/Kg		11/12/15 09:39	11/12/15 23:38	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 MIS 0-2"

Lab Sample ID: 580-54921-97

Date Collected: 10/29/15 15:40
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190	B	1.5	0.093	mg/Kg		11/12/15 09:39	11/12/15 23:41	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 MIS 0-2" DUP

Lab Sample ID: 580-54921-98

Date Collected: 10/29/15 16:01
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	73	B	1.4	0.090	mg/Kg		11/12/15 09:39	11/12/15 23:45	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-99

Date Collected: 10/29/15 16:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	55	B	1.4	0.092	mg/Kg		11/12/15 09:39	11/12/15 23:48	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P1 0-6"

Lab Sample ID: 580-54921-100
Date Collected: 10/30/15 11:16
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24	B	1.5	0.094	mg/Kg		11/12/15 09:39	11/12/15 23:58	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P2 0-6"

Lab Sample ID: 580-54921-101

Date Collected: 10/30/15 11:25
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.4	0.089	mg/Kg		11/12/15 09:39	11/13/15 00:01	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P2 0-6" DUP

Lab Sample ID: 580-54921-102

Date Collected: 10/30/15 11:25
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1	J B	1.4	0.089	mg/Kg		11/12/15 09:39	11/13/15 00:05	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P3 0-6"

Lab Sample ID: 580-54921-103

Date Collected: 10/30/15 11:36
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.9	B	1.4	0.089	mg/Kg		11/12/15 09:39	11/13/15 00:08	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P4 0-6"

Lab Sample ID: 580-54921-104
Date Collected: 10/30/15 12:35
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.3	B	1.5	0.096	mg/Kg		11/12/15 09:39	11/13/15 00:12	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P5 0-6"

Lab Sample ID: 580-54921-105

Date Collected: 10/30/15 13:03
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	79	B	1.4	0.092	mg/Kg		11/12/15 09:39	11/13/15 00:15	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P6 0-6"

Lab Sample ID: 580-54921-106

Date Collected: 10/30/15 13:12
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24		1.5	0.095	mg/Kg		11/12/15 11:02	11/13/15 13:23	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P7 0-6"

Lab Sample ID: 580-54921-107

Date Collected: 10/30/15 13:39
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	57		1.4	0.088	mg/Kg		11/12/15 11:02	11/13/15 13:46	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P8 0-6"

Lab Sample ID: 580-54921-108

Date Collected: 10/30/15 13:49
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.3		1.5	0.095	mg/Kg		11/12/15 11:02	11/13/15 13:49	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P9 0-6"

Lab Sample ID: 580-54921-109

Date Collected: 10/30/15 13:58
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.3		1.4	0.091	mg/Kg		11/12/15 11:02	11/13/15 13:53	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 -P10 0-6"

Lab Sample ID: 580-54921-110

Date Collected: 10/30/15 14:07
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	100		1.4	0.091	mg/Kg		11/12/15 11:02	11/13/15 13:56	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 MIS 0-2"

Lab Sample ID: 580-54921-111

Date Collected: 10/30/15 14:40
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		1.4	0.092	mg/Kg		11/12/15 11:02	11/13/15 14:00	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 MIS 0-2" DUP

Lab Sample ID: 580-54921-112

Date Collected: 10/30/15 15:03
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	69		1.5	0.096	mg/Kg		11/12/15 11:02	11/13/15 14:03	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S30 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-113

Date Collected: 10/30/15 15:32
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	82		1.4	0.092	mg/Kg		11/12/15 11:02	11/13/15 14:06	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P1 0-6"

Lab Sample ID: 580-54921-114

Date Collected: 10/31/15 14:28

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	250		1.5	0.096	mg/Kg		11/12/15 11:02	11/13/15 14:16	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P1 12-18"

Lab Sample ID: 580-54921-115

Date Collected: 10/31/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	100		1.4	0.088	mg/Kg		11/12/15 11:02	11/13/15 14:19	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P1 24-30"

Lab Sample ID: 580-54921-116

Date Collected: 10/31/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		1.4	0.091	mg/Kg		11/12/15 11:02	11/13/15 14:22	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P4 0-6"

Lab Sample ID: 580-54921-117

Date Collected: 10/31/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	77		1.4	0.089	mg/Kg		11/12/15 11:02	11/13/15 14:26	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P4 12-18"

Lab Sample ID: 580-54921-118

Date Collected: 10/31/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	70		1.4	0.091	mg/Kg		11/12/15 11:02	11/13/15 14:29	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P4 24-30"

Lab Sample ID: 580-54921-119

Date Collected: 10/31/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	41		1.4	0.089	mg/Kg		11/12/15 11:02	11/13/15 14:33	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P5 0-6"

Lab Sample ID: 580-54921-120

Date Collected: 10/31/15 15:12

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44	B F1	1.4	0.089	mg/Kg		11/12/15 13:42	11/13/15 14:55	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P5 12-18"

Lab Sample ID: 580-54921-121

Date Collected: 10/31/15 15:12

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31	B	1.4	0.089	mg/Kg		11/12/15 13:42	11/13/15 15:17	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P5 24-30"

Lab Sample ID: 580-54921-122

Date Collected: 10/31/15 15:12

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.6	B	1.4	0.089	mg/Kg		11/12/15 13:42	11/13/15 15:20	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P6 0-6"

Lab Sample ID: 580-54921-123

Date Collected: 10/31/15 15:31

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190	B	1.4	0.090	mg/Kg		11/12/15 13:42	11/13/15 15:24	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P6 12-18"

Lab Sample ID: 580-54921-124

Date Collected: 10/31/15 15:31
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110	B	1.4	0.092	mg/Kg		11/12/15 13:42	11/13/15 15:27	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3501-P6 24-30"

Lab Sample ID: 580-54921-125

Date Collected: 10/31/15 15:31

Matrix: Solid

Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	58	B	1.4	0.088	mg/Kg		11/12/15 13:42	11/13/15 15:31	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 Cell 1

Lab Sample ID: 580-54921-126

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	57	B	1.4	0.088	mg/Kg		11/12/15 13:42	11/13/15 15:34	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 Cell 2

Lab Sample ID: 580-54921-127

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	22	B	1.4	0.088	mg/Kg		11/12/15 13:42	11/13/15 15:37	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: Equipment Rinsate

Lab Sample ID: 580-54921-128

Date Collected: 11/02/15 15:33
Matrix: Water
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0026	mg/L		11/12/15 09:58	11/16/15 11:19	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: Trip Blank

Lab Sample ID: 580-54921-129

Date Collected: 11/05/15 00:00
Matrix: Water
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0026	mg/L		11/17/15 11:16	11/18/15 16:34	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: Water Tower Paint

Lab Sample ID: 580-54921-130

Date Collected: 10/28/15 12:42
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8900	B	29	1.8	mg/Kg		11/12/15 13:42	11/13/15 16:13	20

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: Tower Base Gray

Lab Sample ID: 580-54921-131

Date Collected: 10/28/15 13:02
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8200	B	28	1.8	mg/Kg		11/12/15 13:42	11/13/15 16:16	20

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: NAV AID PLDG EXT PAINT

Lab Sample ID: 580-54921-132

Date Collected: 11/04/15 15:00
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.8	B	1.4	0.087	mg/Kg		11/12/15 13:42	11/13/15 15:56	1

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 528/530 PAINT + DEBRIS

Lab Sample ID: 580-54921-133

Date Collected: 10/28/15 15:31
Date Received: 11/06/15 10:30

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.5		0.030	0.0026	mg/L		11/17/15 16:04	11/18/15 13:25	1

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 580-205408/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205408**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.360	J	1.5	0.096	mg/Kg		11/11/15 13:06	11/12/15 15:50	1

Lab Sample ID: LCS 580-205408/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205408**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-205408/24-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205408**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	49.8		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 580-54921-1 MS — **Client Sample ID: 424P100 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205408**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.1	J B F2	48.5	51.1		mg/Kg		103	80 - 120

Lab Sample ID: 580-54921-1 MSD — **Client Sample ID: 424P100 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205408**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.1	J B F2	44.7	38.5	F2	mg/Kg		84	80 - 120	28	20

Lab Sample ID: 580-54921-1 DU — **Client Sample ID: 424P100 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205408**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	1.1	J B F2	1.14	J	mg/Kg		1	20

Lab Sample ID: MB 580-205417/22-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205417**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.485	J	1.5	0.096	mg/Kg		11/11/15 14:14	11/12/15 17:35	1

Lab Sample ID: LCS 580-205417/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205417**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.4		mg/Kg		101	80 - 120

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID: LCSD 580-205417/24-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205417**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	49.9		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 580-54921-18 MS — **Client Sample ID: 4208P100 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205417**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	4.2	B	41.9	47.5		mg/Kg		103	80 - 120		

Lab Sample ID: 580-54921-18 MSD — **Client Sample ID: 4208P100 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205417**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	4.2	B	36.9	42.6		mg/Kg		104	80 - 120	11	20

Lab Sample ID: 580-54921-18 DU — **Client Sample ID: 4208P100 0-2"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205417**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	4.2	B		3.71		mg/Kg				13	20

Lab Sample ID: MB 580-205451/21-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205451**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.096	mg/Kg		11/12/15 07:01	11/12/15 19:22	1

Lab Sample ID: LCS 580-205451/22-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205451**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	49.7		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 580-205451/23-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205451**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	48.9		mg/Kg		98	80 - 120	2	20

Lab Sample ID: 580-54921-23 MS — **Client Sample ID: 414 MIS 0-2" DUP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205451**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	36		45.1	72.2		mg/Kg		81	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 580-54921-23 MSD — **Client Sample ID: 414 MIS 0-2" DUP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205451**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	36		45.2	81.0		mg/Kg		100	80 - 120	11	20

Lab Sample ID: 580-54921-23 DU — **Client Sample ID: 414 MIS 0-2" DUP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205451**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	36			26.1	F3	mg/Kg				31	20

Lab Sample ID: MB 580-205455/21-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205455**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.245	J	1.5	0.096	mg/Kg		11/12/15 08:36	11/12/15 21:07	1

Lab Sample ID: LCS 580-205455/22-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205455**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	49.4		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 580-205455/23-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205455**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	48.7		mg/Kg		97	80 - 120	1	20

Lab Sample ID: 580-54921-54 MS — **Client Sample ID: 3126E-P5 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	28	B F1	46.0	85.3	F1	mg/Kg		125	80 - 120		

Lab Sample ID: 580-54921-54 MSD — **Client Sample ID: 3126E-P5 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205455**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	28	B F1	45.7	84.7	F1	mg/Kg		124	80 - 120	1	20

Lab Sample ID: 580-54921-54 DU — **Client Sample ID: 3126E-P5 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205455**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	28	B F1		39.9	F3	mg/Kg				35	20

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID: MB 580-205475/19-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205475**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.210	J	1.5	0.096	mg/Kg		11/12/15 09:39	11/12/15 22:49	1

Lab Sample ID: LCS 580-205475/20-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205475**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	48.3		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 580-205475/21-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205475**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	48.6		mg/Kg		97	80 - 120	1	20

Lab Sample ID: 580-54921-91 MS — **Client Sample ID: S28 -P6 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205475**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	38	B F1	46.4	103	F1	mg/Kg		140	80 - 120

Lab Sample ID: 580-54921-91 MSD — **Client Sample ID: S28 -P6 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205475**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	38	B F1	48.0	90.2		mg/Kg		108	80 - 120	14	20

Lab Sample ID: 580-54921-91 DU — **Client Sample ID: S28 -P6 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205475**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	38	B F1	32.5		mg/Kg		17	20

Lab Sample ID: MB 580-205485/18-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.5	0.096	mg/Kg		11/12/15 11:02	11/13/15 13:11	1

Lab Sample ID: LCS 580-205485/19-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.2		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 580-205485/20-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205485**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	49.6		mg/Kg		99	80 - 120	1	20

Lab Sample ID: 580-54921-106 MS — **Client Sample ID: S30 -P6 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	24		49.1	71.4		mg/Kg		96	80 - 120		

Lab Sample ID: 580-54921-106 MSD — **Client Sample ID: S30 -P6 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	24		49.7	71.7		mg/Kg		96	80 - 120	0	20

Lab Sample ID: 580-54921-106 DU — **Client Sample ID: S30 -P6 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205485**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	24			24.4		mg/Kg				0.9	20

Lab Sample ID: MB 580-205506/21-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205506**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.355	J	1.5	0.096	mg/Kg		11/12/15 13:41	11/13/15 00:25	1

Lab Sample ID: LCS 580-205506/22-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205506**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	48.1		mg/Kg		96	80 - 120		

Lab Sample ID: LCSD 580-205506/23-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205506**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	49.8		mg/Kg		100	80 - 120	4	20

Lab Sample ID: 580-54921-71 MS — **Client Sample ID: 3127W-P5 24-30"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	1.6	B	44.6	46.3		mg/Kg		100	80 - 120		

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID: 580-54921-71 MSD — **Client Sample ID: 3127W-P5 24-30"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.6	B	43.2	44.1		mg/Kg		99	80 - 120	5	20

Lab Sample ID: 580-54921-71 DU — **Client Sample ID: 3127W-P5 24-30"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205575 — **Prep Batch: 205506**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	1.6	B		1.37		mg/Kg				14	20

Lab Sample ID: MB 580-205507/15-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205507**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.230	J	1.5	0.096	mg/Kg		11/12/15 13:42	11/13/15 14:42	1

Lab Sample ID: LCS 580-205507/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205507**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	49.6		mg/Kg		99	80 - 120		

Lab Sample ID: LCSD 580-205507/17-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205507**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	50.0		mg/Kg		100	80 - 120	1	20

Lab Sample ID: 580-54921-120 MS — **Client Sample ID: 3501-P5 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205507**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	44	B F1	48.7	110	F1	mg/Kg		136	80 - 120		

Lab Sample ID: 580-54921-120 MSD — **Client Sample ID: 3501-P5 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205507**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	44	B F1	46.4	102	F1	mg/Kg		125	80 - 120	8	20

Lab Sample ID: 580-54921-120 DU — **Client Sample ID: 3501-P5 0-6"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 205746 — **Prep Batch: 205507**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Lead	44	B F1		51.3		mg/Kg				16	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 580-205922/14-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 206069 — **Prep Batch: 205922**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0026	mg/L		11/17/15 16:04	11/18/15 12:45	1

Lab Sample ID: LCS 580-205922/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 206069 — **Prep Batch: 205922**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.978		mg/L		98	80 - 120

Lab Sample ID: LCSD 580-205922/16-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 206069 — **Prep Batch: 205922**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.981		mg/L		98	80 - 120	0	20

Lab Sample ID: LCSSRM 580-205922/17-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 206069 — **Prep Batch: 205922**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.00		mg/L		100	80 - 120

Lab Sample ID: MB 580-205476/15-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 205836 — **Prep Batch: 205476**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0026	mg/L		11/12/15 09:58	11/16/15 10:47	1

Lab Sample ID: LCS 580-205476/16-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 205836 — **Prep Batch: 205476**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LCSD 580-205476/17-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 205836 — **Prep Batch: 205476**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	1.11		mg/L		111	80 - 120	3	20

Lab Sample ID: MB 580-205871/16-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 206069 — **Prep Batch: 205871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.030	0.0026	mg/L		11/17/15 11:16	11/18/15 15:36	1

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID: LCS 580-205871/17-A
Matrix: Water
Analysis Batch: 206069

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 205871

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	1.04		mg/L		104	80 - 120		

Lab Sample ID: LCSD 580-205871/18-A
Matrix: Water
Analysis Batch: 206069

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 205871

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	1.03		mg/L		103	80 - 120	1	20

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 424P100 0-2"
Lab Sample ID: 580-54921-1
Date Collected: 09/26/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:02	HJM	TAL SEA

Client Sample ID: 424P100 0-2" DUP
Lab Sample ID: 580-54921-2
Date Collected: 09/26/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:25	HJM	TAL SEA

Client Sample ID: 424P101 0-2"
Lab Sample ID: 580-54921-3
Date Collected: 09/26/15 08:44
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:28	HJM	TAL SEA

Client Sample ID: 424P101 0-2" DUP
Lab Sample ID: 580-54921-4
Date Collected: 09/26/15 08:44
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:32	HJM	TAL SEA

Client Sample ID: 423P100 0-2"
Lab Sample ID: 580-54921-5
Date Collected: 09/26/15 09:29
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:35	HJM	TAL SEA

Client Sample ID: 423P100 0-2" DUP
Lab Sample ID: 580-54921-6
Date Collected: 09/26/15 09:29
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:38	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 422P100 0-2"
Lab Sample ID: 580-54921-7
Date Collected: 09/26/15 09:45
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:42	HJM	TAL SEA

Client Sample ID: 422P100 0-2" DUP
Lab Sample ID: 580-54921-8
Date Collected: 09/26/15 09:45
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:45	HJM	TAL SEA

Client Sample ID: 419 MIS 0-2"
Lab Sample ID: 580-54921-9
Date Collected: 09/26/15 10:52
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:49	HJM	TAL SEA

Client Sample ID: 419 MIS 0-2" DUP
Lab Sample ID: 580-54921-10
Date Collected: 09/26/15 11:15
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:52	HJM	TAL SEA

Client Sample ID: 419 MIS 0-2" Triplicate
Lab Sample ID: 580-54921-11
Date Collected: 09/26/15 11:33
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 16:55	HJM	TAL SEA

Client Sample ID: 421 MIS 0-2"
Lab Sample ID: 580-54921-12
Date Collected: 09/28/15 10:27
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:05	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 421 MIS 0-2" DUP — Lab Sample ID: 580-54921-13

Date Collected: 09/28/15 10:44 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:08	HJM	TAL SEA

Client Sample ID: 421 MIS 0-2" Triplicate — Lab Sample ID: 580-54921-14

Date Collected: 09/28/15 10:57 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:12	HJM	TAL SEA

Client Sample ID: 415 MIS 0-2" — Lab Sample ID: 580-54921-15

Date Collected: 09/28/15 14:07 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:15	HJM	TAL SEA

Client Sample ID: 415 MIS 0-2" DUP — Lab Sample ID: 580-54921-16

Date Collected: 09/28/15 14:27 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:19	HJM	TAL SEA

Client Sample ID: 415 MIS 0-2" TRIPLICATE — Lab Sample ID: 580-54921-17

Date Collected: 09/30/15 14:35 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:03	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:22	HJM	TAL SEA

Client Sample ID: 4208P100 0-2" — Lab Sample ID: 580-54921-18

Date Collected: 10/02/15 10:15 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:47	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 4208P100 0-2" DUP — Lab Sample ID: 580-54921-19

Date Collected: 10/02/15 10:15 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205408	11/11/15 13:06	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 17:25	HJM	TAL SEA

Client Sample ID: 4208P101 0-2" — Lab Sample ID: 580-54921-20

Date Collected: 10/02/15 11:08 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:10	HJM	TAL SEA

Client Sample ID: 4208P101 0-2" DUP — Lab Sample ID: 580-54921-21

Date Collected: 10/02/15 11:08 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:13	HJM	TAL SEA

Client Sample ID: 414 MIS 0-2" — Lab Sample ID: 580-54921-22

Date Collected: 10/02/15 12:20 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:17	HJM	TAL SEA

Client Sample ID: 414 MIS 0-2" DUP — Lab Sample ID: 580-54921-23

Date Collected: 10/02/15 12:36 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 19:34	HJM	TAL SEA

Client Sample ID: 414 MIS 0-2" Triplicate — Lab Sample ID: 580-54921-24

Date Collected: 10/02/15 12:58 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:20	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S1126 BLUE CHIP — Lab Sample ID: 580-54921-25

Date Collected: 10/03/15 12:40 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:23	HJM	TAL SEA

Client Sample ID: S1126 WHITE CHIP — Lab Sample ID: 580-54921-26

Date Collected: 10/03/15 12:44 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:27	HJM	TAL SEA

Client Sample ID: 4204 MIS 0-2" — Lab Sample ID: 580-54921-27

Date Collected: 10/03/15 14:01 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:31	HJM	TAL SEA

Client Sample ID: 4204 MIS 0-2" DUP — Lab Sample ID: 580-54921-28

Date Collected: 10/03/15 14:21 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:35	HJM	TAL SEA

Client Sample ID: 4204 MIS 0-2" Triplicate — Lab Sample ID: 580-54921-29

Date Collected: 10/03/15 14:39 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:38	HJM	TAL SEA

Client Sample ID: 4203 MIS 0-2" — Lab Sample ID: 580-54921-30

Date Collected: 10/05/15 09:15 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:48	HJM	TAL SEA

Client Sample ID: 4203 MIS 0-2" DUP — Lab Sample ID: 580-54921-31

Date Collected: 10/05/15 09:24 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:55	HJM	TAL SEA

Client Sample ID: 4203 MIS 0-2" Triplicate — Lab Sample ID: 580-54921-32

Date Collected: 10/05/15 09:42 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:59	HJM	TAL SEA

Client Sample ID: 5309 MIS A 0-2" — Lab Sample ID: 580-54921-33

Date Collected: 10/09/15 13:03 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 19:02	HJM	TAL SEA

Client Sample ID: 5309 MIS A 0-2" DUP — Lab Sample ID: 580-54921-34

Date Collected: 10/09/15 13:22 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 19:06	HJM	TAL SEA

Client Sample ID: 5309 MIS A 0-2" Triplicate — Lab Sample ID: 580-54921-35

Date Collected: 10/09/15 13:38 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 19:09	HJM	TAL SEA

Client Sample ID: 5309 MIS B 0-2" — Lab Sample ID: 580-54921-36

Date Collected: 10/12/15 07:40 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 19:13	HJM	TAL SEA

Client Sample ID: 5309 MIS B 0-2" DUP — Lab Sample ID: 580-54921-37

Date Collected: 10/12/15 07:54 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:00	HJM	TAL SEA

Client Sample ID: 5309 MIS B 0-2" Triplicate — Lab Sample ID: 580-54921-38

Date Collected: 10/12/15 08:08 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:04	HJM	TAL SEA

Client Sample ID: R2 MIS A NE 0-2" — Lab Sample ID: 580-54921-39

Date Collected: 10/16/15 17:15 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:07	HJM	TAL SEA

Client Sample ID: R2 MIS A NE 0-2" DUP — Lab Sample ID: 580-54921-40

Date Collected: 10/16/15 17:25 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:10	HJM	TAL SEA

Client Sample ID: R2 MIS A NE 0-2" Triplicate — Lab Sample ID: 580-54921-41

Date Collected: 10/16/15 17:35 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:14	HJM	TAL SEA

Client Sample ID: R2 MIS B NE 0-2" — Lab Sample ID: 580-54921-42

Date Collected: 10/16/15 16:18 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:18	HJM	TAL SEA

Client Sample ID: R2 MIS B NE 0-2" DUP — Lab Sample ID: 580-54921-43

Date Collected: 10/16/15 16:34 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:21	HJM	TAL SEA

Client Sample ID: R2 MIS B NE 0-2" Triplicate — Lab Sample ID: 580-54921-44

Date Collected: 10/16/15 16:47 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:24	HJM	TAL SEA

Client Sample ID: 3126E-P2 0-6" — Lab Sample ID: 580-54921-45

Date Collected: 10/31/15 07:55 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205417	11/11/15 14:14	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 18:51	HJM	TAL SEA

Client Sample ID: 3126E-P2 12-18" — Lab Sample ID: 580-54921-46

Date Collected: 10/31/15 07:55 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:34	HJM	TAL SEA

Client Sample ID: 3126E-P2 24-30" — Lab Sample ID: 580-54921-47

Date Collected: 10/31/15 07:55 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:37	HJM	TAL SEA

Client Sample ID: 3126E-P3 0-6" — Lab Sample ID: 580-54921-48

Date Collected: 10/31/15 08:20 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:40	HJM	TAL SEA

Client Sample ID: 3126E-P3 12-18"
Lab Sample ID: 580-54921-49
Date Collected: 10/31/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:44	HJM	TAL SEA

Client Sample ID: 3126E-P3 24-30"
Lab Sample ID: 580-54921-50
Date Collected: 10/31/15 08:20
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:47	HJM	TAL SEA

Client Sample ID: 3126E-P4 0-6"
Lab Sample ID: 580-54921-51
Date Collected: 10/31/15 08:41
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:51	HJM	TAL SEA

Client Sample ID: 3126E-P4 12-18"
Lab Sample ID: 580-54921-52
Date Collected: 10/31/15 08:41
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:54	HJM	TAL SEA

Client Sample ID: 3126E-P4 24-30"
Lab Sample ID: 580-54921-53
Date Collected: 10/31/15 08:41
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205451	11/12/15 07:01	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 20:57	HJM	TAL SEA

Client Sample ID: 3126E-P5 0-6"
Lab Sample ID: 580-54921-54
Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:19	HJM	TAL SEA

Client Sample ID: 3126E-P5 12-18"
Lab Sample ID: 580-54921-55
Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:42	HJM	TAL SEA

Client Sample ID: 3126E-P5 24-30"
Lab Sample ID: 580-54921-56
Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:45	HJM	TAL SEA

Client Sample ID: 3126E-P5 0-6" DUP
Lab Sample ID: 580-54921-57
Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:49	HJM	TAL SEA

Client Sample ID: 3126E-P5 12-18" DUP
Lab Sample ID: 580-54921-58
Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:52	HJM	TAL SEA

Client Sample ID: 3126E-P5 24-30" DUP
Lab Sample ID: 580-54921-59
Date Collected: 10/31/15 09:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:56	HJM	TAL SEA

Client Sample ID: 3127W-P1 0-6"
Lab Sample ID: 580-54921-60
Date Collected: 10/31/15 09:50
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 21:59	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 3127W-P1 12-18"
Lab Sample ID: 580-54921-61
Date Collected: 10/31/15 09:50
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:02	HJM	TAL SEA

Client Sample ID: 3127W-P1 24-30"
Lab Sample ID: 580-54921-62
Date Collected: 10/31/15 09:50
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:06	HJM	TAL SEA

Client Sample ID: 3127W-P3 0-6"
Lab Sample ID: 580-54921-63
Date Collected: 10/31/15 10:14
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:09	HJM	TAL SEA

Client Sample ID: 3127W-P3 12-18"
Lab Sample ID: 580-54921-64
Date Collected: 10/31/15 10:14
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:19	HJM	TAL SEA

Client Sample ID: 3127W-P3 24-30"
Lab Sample ID: 580-54921-65
Date Collected: 10/31/15 10:14
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:22	HJM	TAL SEA

Client Sample ID: 3127W-P4 0-6"
Lab Sample ID: 580-54921-66
Date Collected: 10/31/15 10:36
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:26	HJM	TAL SEA

Client Sample ID: 3127W-P4 12-18"
Lab Sample ID: 580-54921-67
Date Collected: 10/31/15 10:36
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:29	HJM	TAL SEA

Client Sample ID: 3127W-P4 24-30"
Lab Sample ID: 580-54921-68
Date Collected: 10/31/15 10:36
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:32	HJM	TAL SEA

Client Sample ID: 3127W-P5 0-6"
Lab Sample ID: 580-54921-69
Date Collected: 10/31/15 11:07
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:36	HJM	TAL SEA

Client Sample ID: 3127W-P5 12-18"
Lab Sample ID: 580-54921-70
Date Collected: 10/31/15 11:07
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205455	11/12/15 08:36	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 22:39	HJM	TAL SEA

Client Sample ID: 3127W-P5 24-30"
Lab Sample ID: 580-54921-71
Date Collected: 10/31/15 11:07
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 00:37	HJM	TAL SEA

Client Sample ID: 347-P2 0-6"
Lab Sample ID: 580-54921-72
Date Collected: 10/31/15 12:43
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:00	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P2 12-18"
Lab Sample ID: 580-54921-73
Date Collected: 10/31/15 12:43
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:03	HJM	TAL SEA

Client Sample ID: 347-P2 24-30"
Lab Sample ID: 580-54921-74
Date Collected: 10/31/15 12:43
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:07	HJM	TAL SEA

Client Sample ID: 347-P4 0-6"
Lab Sample ID: 580-54921-75
Date Collected: 10/31/15 13:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:10	HJM	TAL SEA

Client Sample ID: 347-P4 12-18"
Lab Sample ID: 580-54921-76
Date Collected: 10/31/15 13:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:13	HJM	TAL SEA

Client Sample ID: 347-P4 24-30"
Lab Sample ID: 580-54921-77
Date Collected: 10/31/15 13:05
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:17	HJM	TAL SEA

Client Sample ID: 347-P5 0-6"
Lab Sample ID: 580-54921-78
Date Collected: 10/31/15 13:33
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:20	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 347-P5 12-18"
Lab Sample ID: 580-54921-79
Date Collected: 10/31/15 13:33
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:24	HJM	TAL SEA

Client Sample ID: 347-P5 24-30"
Lab Sample ID: 580-54921-80
Date Collected: 10/31/15 13:33
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:27	HJM	TAL SEA

Client Sample ID: 347-P8 0-6"
Lab Sample ID: 580-54921-81
Date Collected: 10/31/15 13:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:37	HJM	TAL SEA

Client Sample ID: 347-P8 12-18"
Lab Sample ID: 580-54921-82
Date Collected: 10/31/15 13:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:40	HJM	TAL SEA

Client Sample ID: 347-P8 24-30"
Lab Sample ID: 580-54921-83
Date Collected: 10/31/15 13:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:44	HJM	TAL SEA

Client Sample ID: S30 Gravel Pad
Lab Sample ID: 580-54921-84
Date Collected: 10/30/15 09:45
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:47	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 Gravel Pad — Lab Sample ID: 580-54921-85

Date Collected: 10/30/15 16:01 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:50	HJM	TAL SEA

Client Sample ID: S28 -P1 0-6" — Lab Sample ID: 580-54921-86

Date Collected: 10/29/15 12:55 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:53	HJM	TAL SEA

Client Sample ID: S28 -P2 0-6" — Lab Sample ID: 580-54921-87

Date Collected: 10/29/15 13:04 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205506	11/12/15 13:41	MKN	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 01:56	HJM	TAL SEA

Client Sample ID: S28 -P3 0-6" — Lab Sample ID: 580-54921-88

Date Collected: 10/29/15 13:13 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:51	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 16:01	HJM	TAL SEA

Client Sample ID: S28 -P4 0-6" — Lab Sample ID: 580-54921-89

Date Collected: 10/29/15 13:41 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:51	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 16:04	HJM	TAL SEA

Client Sample ID: S28 -P5 0-6" — Lab Sample ID: 580-54921-90

Date Collected: 10/29/15 13:49 — **Matrix: Solid**
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:51	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 16:07	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 -P6 0-6"
Lab Sample ID: 580-54921-91
Date Collected: 10/29/15 14:03
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:01	HJM	TAL SEA

Client Sample ID: S28 -P7 0-6"
Lab Sample ID: 580-54921-92
Date Collected: 10/29/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:24	HJM	TAL SEA

Client Sample ID: S28 -P8 0-6"
Lab Sample ID: 580-54921-93
Date Collected: 10/29/15 14:44
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:28	HJM	TAL SEA

Client Sample ID: S28 -P9 0-6"
Lab Sample ID: 580-54921-94
Date Collected: 10/29/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:31	HJM	TAL SEA

Client Sample ID: S28 -P10 0-6"
Lab Sample ID: 580-54921-95
Date Collected: 10/29/15 14:56
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:34	HJM	TAL SEA

Client Sample ID: S28 -P11 0-6"
Lab Sample ID: 580-54921-96
Date Collected: 10/29/15 15:02
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:38	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: S28 MIS 0-2"

Lab Sample ID: 580-54921-97
Date Collected: 10/29/15 15:40
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:41	HJM	TAL SEA

Client Sample ID: S28 MIS 0-2" DUP

Lab Sample ID: 580-54921-98
Date Collected: 10/29/15 16:01
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:45	HJM	TAL SEA

Client Sample ID: S28 MIS 0-2" Triplicate

Lab Sample ID: 580-54921-99
Date Collected: 10/29/15 16:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:48	HJM	TAL SEA

Client Sample ID: S30 -P1 0-6"

Lab Sample ID: 580-54921-100
Date Collected: 10/30/15 11:16
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/12/15 23:58	HJM	TAL SEA

Client Sample ID: S30 -P2 0-6"

Lab Sample ID: 580-54921-101
Date Collected: 10/30/15 11:25
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 00:01	HJM	TAL SEA

Client Sample ID: S30 -P2 0-6" DUP

Lab Sample ID: 580-54921-102
Date Collected: 10/30/15 11:25
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 00:05	HJM	TAL SEA

TABLE D-1
2015 SOIL SAMPLING
RELATIVE PERCENT DIFFERENCES
MIDWAY ATOLL NWR

Sample Identification	Sample Date	Lead Concentration (mg/kg)	Relative Percent Difference
S30 -P1 0-6"	10/30/2015	24	182%
S30 -P2 0-6 DUP		1.1	
3126E-P5 0-6"	10/31/2015	28	19%
3126E-P5 0-6 DUP		34	
3126E-P5 12-18"	10/31/2015	27	0%
3126E-P5 12-18 DUP		27	
3126E-P5 24-30"	10/31/2015	16	0%
3126E-P5 24-30 DUP		16	

Notes

1. Lead was analyzed by Environmental Protection Agency Method 6010B.
2. Results based on wet weight.

mg/kg - milligram per kilogram

Client Sample ID: S30 -P3 0-6"
Lab Sample ID: 580-54921-103
Date Collected: 10/30/15 11:36
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 00:08	HJM	TAL SEA

Client Sample ID: S30 -P4 0-6"
Lab Sample ID: 580-54921-104
Date Collected: 10/30/15 12:35
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 00:12	HJM	TAL SEA

Client Sample ID: S30 -P5 0-6"
Lab Sample ID: 580-54921-105
Date Collected: 10/30/15 13:03
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205475	11/12/15 09:39	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205575	11/13/15 00:15	HJM	TAL SEA

Client Sample ID: S30 -P6 0-6"
Lab Sample ID: 580-54921-106
Date Collected: 10/30/15 13:12
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 13:23	HJM	TAL SEA

Client Sample ID: S30 -P7 0-6"
Lab Sample ID: 580-54921-107
Date Collected: 10/30/15 13:39
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 13:46	HJM	TAL SEA

Client Sample ID: S30 -P8 0-6"
Lab Sample ID: 580-54921-108
Date Collected: 10/30/15 13:49
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 13:49	HJM	TAL SEA

Client Sample ID: S30 -P9 0-6"
Lab Sample ID: 580-54921-109
Date Collected: 10/30/15 13:58
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 13:53	HJM	TAL SEA

Client Sample ID: S30 -P10 0-6"
Lab Sample ID: 580-54921-110
Date Collected: 10/30/15 14:07
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 13:56	HJM	TAL SEA

Client Sample ID: S30 MIS 0-2"
Lab Sample ID: 580-54921-111
Date Collected: 10/30/15 14:40
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:00	HJM	TAL SEA

Client Sample ID: S30 MIS 0-2" DUP
Lab Sample ID: 580-54921-112
Date Collected: 10/30/15 15:03
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:03	HJM	TAL SEA

Client Sample ID: S30 MIS 0-2" Triplicate
Lab Sample ID: 580-54921-113
Date Collected: 10/30/15 15:32
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:06	HJM	TAL SEA

Client Sample ID: 3501-P1 0-6"
Lab Sample ID: 580-54921-114
Date Collected: 10/31/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:16	HJM	TAL SEA

Client Sample ID: 3501-P1 12-18"
Lab Sample ID: 580-54921-115
Date Collected: 10/31/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:19	HJM	TAL SEA

Client Sample ID: 3501-P1 24-30"
Lab Sample ID: 580-54921-116
Date Collected: 10/31/15 14:28
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:22	HJM	TAL SEA

Client Sample ID: 3501-P4 0-6"
Lab Sample ID: 580-54921-117
Date Collected: 10/31/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:26	HJM	TAL SEA

Client Sample ID: 3501-P4 12-18"
Lab Sample ID: 580-54921-118
Date Collected: 10/31/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:29	HJM	TAL SEA

Client Sample ID: 3501-P4 24-30"
Lab Sample ID: 580-54921-119
Date Collected: 10/31/15 14:51
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205485	11/12/15 11:02	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:33	HJM	TAL SEA

Client Sample ID: 3501-P5 0-6"
Lab Sample ID: 580-54921-120
Date Collected: 10/31/15 15:12
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 14:55	HJM	TAL SEA

Client Sample ID: 3501-P5 12-18"
Lab Sample ID: 580-54921-121
Date Collected: 10/31/15 15:12
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:17	HJM	TAL SEA

Client Sample ID: 3501-P5 24-30"
Lab Sample ID: 580-54921-122
Date Collected: 10/31/15 15:12
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:20	HJM	TAL SEA

Client Sample ID: 3501-P6 0-6"
Lab Sample ID: 580-54921-123
Date Collected: 10/31/15 15:31
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:24	HJM	TAL SEA

Client Sample ID: 3501-P6 12-18"
Lab Sample ID: 580-54921-124
Date Collected: 10/31/15 15:31
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:27	HJM	TAL SEA

Client Sample ID: 3501-P6 24-30"
Lab Sample ID: 580-54921-125
Date Collected: 10/31/15 15:31
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:31	HJM	TAL SEA

Client Sample ID: R2 Cell 1
Lab Sample ID: 580-54921-126
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:34	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: R2 Cell 2
Lab Sample ID: 580-54921-127
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:37	HJM	TAL SEA

Client Sample ID: Equipment Rinsate
Lab Sample ID: 580-54921-128
Date Collected: 11/02/15 15:33
Matrix: Water
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			205476	11/12/15 09:58	MKN	TAL SEA
Total Recoverable	Analysis	6010B		1	205836	11/16/15 11:19	HJM	TAL SEA

Client Sample ID: Trip Blank
Lab Sample ID: 580-54921-129
Date Collected: 11/05/15 00:00
Matrix: Water
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			205871	11/17/15 11:16	S1X	TAL SEA
Total Recoverable	Analysis	6010B		1	206069	11/18/15 16:34	HJM	TAL SEA

Client Sample ID: Water Tower Paint
Lab Sample ID: 580-54921-130
Date Collected: 10/28/15 12:42
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		20	205746	11/13/15 16:13	HJM	TAL SEA

Client Sample ID: Tower Base Gray
Lab Sample ID: 580-54921-131
Date Collected: 10/28/15 13:02
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		20	205746	11/13/15 16:16	HJM	TAL SEA

Client Sample ID: NAV AID PLDG EXT PAINT
Lab Sample ID: 580-54921-132
Date Collected: 11/04/15 15:00
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			205507	11/12/15 13:42	S1X	TAL SEA
Total/NA	Analysis	6010B		1	205746	11/13/15 15:56	HJM	TAL SEA

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Client Sample ID: 528/530 PAINT + DEBRIS

Lab Sample ID: 580-54921-133

Date Collected: 10/28/15 15:31

Matrix: Solid

Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			205804	11/16/15 15:04	PAB	TAL SEA
TCLP	Prep	3010A			205922	11/17/15 16:04	PAB	TAL SEA
TCLP	Analysis	6010B		1	206069	11/18/15 13:25	HJM	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-54921-1	424P100 0-2"	Solid	09/26/15 08:20	11/06/15 10:30
580-54921-2	424P100 0-2" DUP	Solid	09/26/15 08:20	11/06/15 10:30
580-54921-3	424P101 0-2"	Solid	09/26/15 08:44	11/06/15 10:30
580-54921-4	424P101 0-2" DUP	Solid	09/26/15 08:44	11/06/15 10:30
580-54921-5	423P100 0-2"	Solid	09/26/15 09:29	11/06/15 10:30
580-54921-6	423P100 0-2" DUP	Solid	09/26/15 09:29	11/06/15 10:30
580-54921-7	422P100 0-2"	Solid	09/26/15 09:45	11/06/15 10:30
580-54921-8	422P100 0-2" DUP	Solid	09/26/15 09:45	11/06/15 10:30
580-54921-9	419 MIS 0-2"	Solid	09/26/15 10:52	11/06/15 10:30
580-54921-10	419 MIS 0-2" DUP	Solid	09/26/15 11:15	11/06/15 10:30
580-54921-11	419 MIS 0-2" Triplicate	Solid	09/26/15 11:33	11/06/15 10:30
580-54921-12	421 MIS 0-2"	Solid	09/28/15 10:27	11/06/15 10:30
580-54921-13	421 MIS 0-2" DUP	Solid	09/28/15 10:44	11/06/15 10:30
580-54921-14	421 MIS 0-2" Triplicate	Solid	09/28/15 10:57	11/06/15 10:30
580-54921-15	415 MIS 0-2"	Solid	09/28/15 14:07	11/06/15 10:30
580-54921-16	415 MIS 0-2" DUP	Solid	09/28/15 14:27	11/06/15 10:30
580-54921-17	415 MIS 0-2" TRIPLICATE	Solid	09/30/15 14:35	11/06/15 10:30
580-54921-18	4208P100 0-2"	Solid	10/02/15 10:15	11/06/15 10:30
580-54921-19	4208P100 0-2" DUP	Solid	10/02/15 10:15	11/06/15 10:30
580-54921-20	4208P101 0-2"	Solid	10/02/15 11:08	11/06/15 10:30
580-54921-21	4208P101 0-2" DUP	Solid	10/02/15 11:08	11/06/15 10:30
580-54921-22	414 MIS 0-2"	Solid	10/02/15 12:20	11/06/15 10:30
580-54921-23	414 MIS 0-2" DUP	Solid	10/02/15 12:36	11/06/15 10:30
580-54921-24	414 MIS 0-2" Triplicate	Solid	10/02/15 12:58	11/06/15 10:30
580-54921-25	S1126 BLUE CHIP	Solid	10/03/15 12:40	11/06/15 10:30
580-54921-26	S1126 WHITE CHIP	Solid	10/03/15 12:44	11/06/15 10:30
580-54921-27	4204 MIS 0-2"	Solid	10/03/15 14:01	11/06/15 10:30
580-54921-28	4204 MIS 0-2" DUP	Solid	10/03/15 14:21	11/06/15 10:30
580-54921-29	4204 MIS 0-2" Triplicate	Solid	10/03/15 14:39	11/06/15 10:30
580-54921-30	4203 MIS 0-2"	Solid	10/05/15 09:15	11/06/15 10:30
580-54921-31	4203 MIS 0-2" DUP	Solid	10/05/15 09:24	11/06/15 10:30
580-54921-32	4203 MIS 0-2" Triplicate	Solid	10/05/15 09:42	11/06/15 10:30
580-54921-33	5309 MIS A 0-2"	Solid	10/09/15 13:03	11/06/15 10:30
580-54921-34	5309 MIS A 0-2" DUP	Solid	10/09/15 13:22	11/06/15 10:30
580-54921-35	5309 MIS A 0-2" Triplicate	Solid	10/09/15 13:38	11/06/15 10:30
580-54921-36	5309 MIS B 0-2"	Solid	10/12/15 07:40	11/06/15 10:30
580-54921-37	5309 MIS B 0-2" DUP	Solid	10/12/15 07:54	11/06/15 10:30
580-54921-38	5309 MIS B 0-2" Triplicate	Solid	10/12/15 08:08	11/06/15 10:30
580-54921-39	R2 MIS A NE 0-2"	Solid	10/16/15 17:15	11/06/15 10:30
580-54921-40	R2 MIS A NE 0-2" DUP	Solid	10/16/15 17:25	11/06/15 10:30
580-54921-41	R2 MIS A NE 0-2" Triplicate	Solid	10/16/15 17:35	11/06/15 10:30
580-54921-42	R2 MIS B NE 0-2"	Solid	10/16/15 16:18	11/06/15 10:30
580-54921-43	R2 MIS B NE 0-2" DUP	Solid	10/16/15 16:34	11/06/15 10:30
580-54921-44	R2 MIS B NE 0-2" Triplicate	Solid	10/16/15 16:47	11/06/15 10:30
580-54921-45	3126E-P2 0-6"	Solid	10/31/15 07:55	11/06/15 10:30
580-54921-46	3126E-P2 12-18"	Solid	10/31/15 07:55	11/06/15 10:30
580-54921-47	3126E-P2 24-30"	Solid	10/31/15 07:55	11/06/15 10:30
580-54921-48	3126E-P3 0-6"	Solid	10/31/15 08:20	11/06/15 10:30
580-54921-49	3126E-P3 12-18"	Solid	10/31/15 08:20	11/06/15 10:30
580-54921-50	3126E-P3 24-30"	Solid	10/31/15 08:20	11/06/15 10:30
580-54921-51	3126E-P4 0-6"	Solid	10/31/15 08:41	11/06/15 10:30
580-54921-52	3126E-P4 12-18"	Solid	10/31/15 08:41	11/06/15 10:30
580-54921-53	3126E-P4 24-30"	Solid	10/31/15 08:41	11/06/15 10:30

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-54921-54	3126E-P5 0-6"	Solid	10/31/15 09:05	11/06/15 10:30
580-54921-55	3126E-P5 12-18"	Solid	10/31/15 09:05	11/06/15 10:30
580-54921-56	3126E-P5 24-30"	Solid	10/31/15 09:05	11/06/15 10:30
580-54921-57	3126E-P5 0-6" DUP	Solid	10/31/15 09:05	11/06/15 10:30
580-54921-58	3126E-P5 12-18" DUP	Solid	10/31/15 09:05	11/06/15 10:30
580-54921-59	3126E-P5 24-30" DUP	Solid	10/31/15 09:05	11/06/15 10:30
580-54921-60	3127W-P1 0-6"	Solid	10/31/15 09:50	11/06/15 10:30
580-54921-61	3127W-P1 12-18"	Solid	10/31/15 09:50	11/06/15 10:30
580-54921-62	3127W-P1 24-30"	Solid	10/31/15 09:50	11/06/15 10:30
580-54921-63	3127W-P3 0-6"	Solid	10/31/15 10:14	11/06/15 10:30
580-54921-64	3127W-P3 12-18"	Solid	10/31/15 10:14	11/06/15 10:30
580-54921-65	3127W-P3 24-30"	Solid	10/31/15 10:14	11/06/15 10:30
580-54921-66	3127W-P4 0-6"	Solid	10/31/15 10:36	11/06/15 10:30
580-54921-67	3127W-P4 12-18"	Solid	10/31/15 10:36	11/06/15 10:30
580-54921-68	3127W-P4 24-30"	Solid	10/31/15 10:36	11/06/15 10:30
580-54921-69	3127W-P5 0-6"	Solid	10/31/15 11:07	11/06/15 10:30
580-54921-70	3127W-P5 12-18"	Solid	10/31/15 11:07	11/06/15 10:30
580-54921-71	3127W-P5 24-30"	Solid	10/31/15 11:07	11/06/15 10:30
580-54921-72	347-P2 0-6"	Solid	10/31/15 12:43	11/06/15 10:30
580-54921-73	347-P2 12-18"	Solid	10/31/15 12:43	11/06/15 10:30
580-54921-74	347-P2 24-30"	Solid	10/31/15 12:43	11/06/15 10:30
580-54921-75	347-P4 0-6"	Solid	10/31/15 13:05	11/06/15 10:30
580-54921-76	347-P4 12-18"	Solid	10/31/15 13:05	11/06/15 10:30
580-54921-77	347-P4 24-30"	Solid	10/31/15 13:05	11/06/15 10:30
580-54921-78	347-P5 0-6"	Solid	10/31/15 13:33	11/06/15 10:30
580-54921-79	347-P5 12-18"	Solid	10/31/15 13:33	11/06/15 10:30
580-54921-80	347-P5 24-30"	Solid	10/31/15 13:33	11/06/15 10:30
580-54921-81	347-P8 0-6"	Solid	10/31/15 13:51	11/06/15 10:30
580-54921-82	347-P8 12-18"	Solid	10/31/15 13:51	11/06/15 10:30
580-54921-83	347-P8 24-30"	Solid	10/31/15 13:51	11/06/15 10:30
580-54921-84	S30 Gravel Pad	Solid	10/30/15 09:45	11/06/15 10:30
580-54921-85	S28 Gravel Pad	Solid	10/30/15 16:01	11/06/15 10:30
580-54921-86	S28 -P1 0-6"	Solid	10/29/15 12:55	11/06/15 10:30
580-54921-87	S28 -P2 0-6"	Solid	10/29/15 13:04	11/06/15 10:30
580-54921-88	S28 -P3 0-6"	Solid	10/29/15 13:13	11/06/15 10:30
580-54921-89	S28 -P4 0-6"	Solid	10/29/15 13:41	11/06/15 10:30
580-54921-90	S28 -P5 0-6"	Solid	10/29/15 13:49	11/06/15 10:30
580-54921-91	S28 -P6 0-6"	Solid	10/29/15 14:03	11/06/15 10:30
580-54921-92	S28 -P7 0-6"	Solid	10/29/15 14:28	11/06/15 10:30
580-54921-93	S28 -P8 0-6"	Solid	10/29/15 14:44	11/06/15 10:30
580-54921-94	S28 -P9 0-6"	Solid	10/29/15 14:51	11/06/15 10:30
580-54921-95	S28 -P10 0-6"	Solid	10/29/15 14:56	11/06/15 10:30
580-54921-96	S28 -P11 0-6"	Solid	10/29/15 15:02	11/06/15 10:30
580-54921-97	S28 MIS 0-2"	Solid	10/29/15 15:40	11/06/15 10:30
580-54921-98	S28 MIS 0-2" DUP	Solid	10/29/15 16:01	11/06/15 10:30
580-54921-99	S28 MIS 0-2" Triplicate	Solid	10/29/15 16:22	11/06/15 10:30
580-54921-100	S30 -P1 0-6"	Solid	10/30/15 11:16	11/06/15 10:30
580-54921-101	S30 -P2 0-6"	Solid	10/30/15 11:25	11/06/15 10:30
580-54921-102	S30 -P2 0-6" DUP	Solid	10/30/15 11:25	11/06/15 10:30
580-54921-103	S30 -P3 0-6"	Solid	10/30/15 11:36	11/06/15 10:30
580-54921-104	S30 -P4 0-6"	Solid	10/30/15 12:35	11/06/15 10:30
580-54921-105	S30 -P5 0-6"	Solid	10/30/15 13:03	11/06/15 10:30
580-54921-106	S30 -P6 0-6"	Solid	10/30/15 13:12	11/06/15 10:30

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-1
SDG: Midway Atoll

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-54921-107	S30 -P7 0-6"	Solid	10/30/15 13:39	11/06/15 10:30
580-54921-108	S30 -P8 0-6"	Solid	10/30/15 13:49	11/06/15 10:30
580-54921-109	S30 -P9 0-6"	Solid	10/30/15 13:58	11/06/15 10:30
580-54921-110	S30 -P10 0-6"	Solid	10/30/15 14:07	11/06/15 10:30
580-54921-111	S30 MIS 0-2"	Solid	10/30/15 14:40	11/06/15 10:30
580-54921-112	S30 MIS 0-2" DUP	Solid	10/30/15 15:03	11/06/15 10:30
580-54921-113	S30 MIS 0-2" Triplicate	Solid	10/30/15 15:32	11/06/15 10:30
580-54921-114	3501-P1 0-6"	Solid	10/31/15 14:28	11/06/15 10:30
580-54921-115	3501-P1 12-18"	Solid	10/31/15 14:28	11/06/15 10:30
580-54921-116	3501-P1 24-30"	Solid	10/31/15 14:28	11/06/15 10:30
580-54921-117	3501-P4 0-6"	Solid	10/31/15 14:51	11/06/15 10:30
580-54921-118	3501-P4 12-18"	Solid	10/31/15 14:51	11/06/15 10:30
580-54921-119	3501-P4 24-30"	Solid	10/31/15 14:51	11/06/15 10:30
580-54921-120	3501-P5 0-6"	Solid	10/31/15 15:12	11/06/15 10:30
580-54921-121	3501-P5 12-18"	Solid	10/31/15 15:12	11/06/15 10:30
580-54921-122	3501-P5 24-30"	Solid	10/31/15 15:12	11/06/15 10:30
580-54921-123	3501-P6 0-6"	Solid	10/31/15 15:31	11/06/15 10:30
580-54921-124	3501-P6 12-18"	Solid	10/31/15 15:31	11/06/15 10:30
580-54921-125	3501-P6 24-30"	Solid	10/31/15 15:31	11/06/15 10:30
580-54921-126	R2 Cell 1	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-127	R2 Cell 2	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-128	Equipment Rinsate	Water	11/02/15 15:33	11/06/15 10:30
580-54921-129	Trip Blank	Water	11/05/15 00:00	11/06/15 10:30
580-54921-130	Water Tower Paint	Solid	10/28/15 12:42	11/06/15 10:30
580-54921-131	Tower Base Gray	Solid	10/28/15 13:02	11/06/15 10:30
580-54921-132	NAV AID PLDG EXT PAINT	Solid	11/04/15 15:00	11/06/15 10:30
580-54921-133	528/530 PAINT + DEBRIS	Solid	10/28/15 15:31	11/06/15 10:30

TestAmerica Seattle
5755 8th Street East

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other: 54921

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	1 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

580-54921 Chain of Custody

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 6010 (Pb)	Sample Specific Notes:
1	424P100 0-2"	0-2"	9/26/15	0820	C	Soil	1			X	No preservative. Soil analyzed wet weight
2	424P100 0-2" DUP	0-2"	9/26/15	0820	C	Soil	1			X	No preservative. Soil analyzed wet weight
3	424P101 0-2"	0-2"	9/26/15	0844	C	Soil	1			X	No preservative. Soil analyzed wet weight
4	424P101 0-2" DUP	0-2"	9/26/15	0844	C	Soil	1			X	No preservative. Soil analyzed wet weight
5	423P100 0-2"	0-2"	9/26/15	0929	C	Soil	1			X	No preservative. Soil analyzed wet weight
6	423P100 0-2" DUP	0-2"	9/26/15	0929	C	Soil	1			X	No preservative. Soil analyzed wet weight
7	422P100 0-2"	0-2"	9/26/15	0945	C	Soil	1			X	No preservative. Soil analyzed wet weight
8	422P100 0-2" DUP	0-2"	9/26/15	0945	C	Soil	1			X	No preservative. Soil analyzed wet weight
9	419 MIS 0-2"	0-2"	9/26/15	1052	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
10	419 MIS 0-2" DUP	0-2"	9/26/15	1115	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
11	419 MIS 0-2" Triplicate	0-2"	9/26/15	1133	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
12	421 MIS 0-2"	0-2"	9/28/15	1027	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
13	421 MIS 0-2" DUP	0-2"	9/28/15	1044	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
14	421 MIS 0-2" Triplicate	0-2"	9/28/15	1057	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
15	415 MIS 0-2"	0-2"	9/28/15	1407	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
16	415 MIS 0-2" DUP	0-2"	9/28/15	1427	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
17	415 MIS 0-2" Triplicate	0-2"	9/30/15	1435	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
18	4208P100 0-2"	0-2"	10/2/15	1015	C	Soil	1			X	No preservative. Soil analyzed wet weight
19	4208P100 0-2" DUP	0-2"	10/2/15	1015	C	Soil	1			X	No preservative. Soil analyzed wet weight
20	4208P101 0-2"	0-2"	10/2/15	1108	C	Soil	1			X	No preservative. Soil analyzed wet weight
21	4208P101 0-2" DUP	0-2"	10/2/15	1108	C	Soil	1			X	No preservative. Soil analyzed wet weight
22	414 MIS 0-2"	0-2"	10/2/15	1220	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
23	414 MIS 0-2" DUP	0-2"	10/2/15	1236	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
24	414 MIS 0-2" Triplicate	0-2"	10/2/15	1258	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
25	S1126 BLUE CHIP	Surface	10/3/15	1240	Chip	Paint	1			X	Total lead
26	S1126 WHITE CHIP	Surface	10/3/15	1244	Chip	Paint	1			X	Total lead

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1028	Craig Pilidal	TA-Honolulu	11/5/15 10:28 noice bucket, in 2
Katelyn Asato Kaupau	TAHON	11/6/15 1234			
			Received in Laboratory by:	Company:	Date/Time:
			Received in Laboratory by: RLeader	TASEA	11/6/15 1030

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	2 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
27	4204 MIS 0-2"	0-2"	10/3/15	1401	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
28	4204 MIS 0-2" DUP	0-2"	10/3/15	1421	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
29	4204 MIS 0-2" Triplicate	0-2"	10/3/15	1439	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
30	4203 MIS 0-2"	0-2"	10/5/15	0915	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
31	4203 MIS 0-2" DUP	0-2"	10/5/15	0924	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
32	4203 MIS 0-2" Triplicate	0-2"	10/5/15	0942	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
33	5309 MIS A 0-2"	0-2"	10/9/15	1303	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
34	5309 MIS A 0-2" DUP	0-2"	10/9/15	1322	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
35	5309 MIS A 0-2" Triplicate	0-2"	10/9/15	1338	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
36	5309 MIS B 0-2"	0-2"	10/12/15	0740	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
37	5309 MIS B 0-2" DUP	0-2"	10/12/15	0754	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
38	5309 MIS B 0-2" Triplicate	0-2"	10/12/15	0808	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
39	R2 MIS A NE 0-2"	0-2"	10/16/15	1715	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
40	R2 MIS A NE 0-2" DUP	0-2"	10/16/15	1725	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
41	R2 MIS A NE 0-2" Triplicate	0-2"	10/16/15	1735	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
42	R2 MIS B NE 0-2"	0-2"	10/16/15	1618	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
43	R2 MIS B NE 0-2" DUP	0-2"	10/16/15	1634	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
44	R2 MIS B NE 0-2" Triplicate	0-2"	10/16/15	1647	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
45	3126E-P2 0-6"	0-6"	10/31/15	0755	C	Soil	1			X	No preservative. Soil analyzed wet weight
46	3126E-P2 12-18"	12-18"	10/31/15	0755	G	Soil	1			X	No preservative. Soil analyzed wet weight
47	3126E-P2 24-30"	24-30"	10/31/15	0755	G	Soil	1			X	No preservative. Soil analyzed wet weight
48	3126E-P3 0-6"	0-6"	10/31/15	0820	C	Soil	1			X	No preservative. Soil analyzed wet weight
49	3126E-P3 12-18"	12-18"	10/31/15	0820	G	Soil	1			X	No preservative. Soil analyzed wet weight
50	3126E-P3 24-30"	24-30"	10/31/15	0820	G	Soil	1			X	No preservative. Soil analyzed wet weight
51	3126E-P4 0-6"	0-6"	10/31/15	0841	C	Soil	1			X	No preservative. Soil analyzed wet weight
52	3126E-P4 12-18"	12-18"	10/31/15	0841	G	Soil	1			X	No preservative. Soil analyzed wet weight

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by: See final page for signed chain of custody for all pages	Company: GEOSYNTEC	Date/Time: 11/5/15 1028	Received by: Craig Pilidoha	Company: TA Honolulu	Date/Time: no ice, in tact, 11/5/15, 10:28 bucket, 24.6°C
Relinquished by: Katelyn Ikato	Company: TA HON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RKidder	Company: TASEA	Date/Time: 11/6/15 1030

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	3 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
53	3126E-P4 24-30"	24-30"	10/31/15	0841	G	Soil	1			X	No preservative. Soil analyzed wet weight
54	3126E-P5 0-6"	0-6"	10/31/15	0905	C	Soil	1			X	No preservative. Soil analyzed wet weight
55	3126E-P5 12-18"	12-18"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
56	3126E-P5 24-30"	24-30"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
57	3126E-P5 0-6" DUP	0-6"	10/31/15	0905	C	Soil	1			X	No preservative. Soil analyzed wet weight
58	3126E-P5 12-18" DUP	12-18"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
59	3126E-P5 24-30" DUP	24-30"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
60	3127W-P1 0-6"	0-6"	10/31/15	0950	C	Soil	1			X	No preservative. Soil analyzed wet weight
61	3127W-P1 12-18"	12-18"	10/31/15	0950	G	Soil	1			X	No preservative. Soil analyzed wet weight
62	3127W-P1 24-30"	24-30"	10/31/15	0950	G	Soil	1			X	No preservative. Soil analyzed wet weight
63	3127W-P3 0-6"	0-6"	10/31/15	1014	C	Soil	1			X	No preservative. Soil analyzed wet weight
64	3127W-P3 12-18"	12-18"	10/31/15	1014	G	Soil	1			X	No preservative. Soil analyzed wet weight
65	3127W-P3 24-30"	24-30"	10/31/15	1014	G	Soil	1			X	No preservative. Soil analyzed wet weight
66	3127W-P4 0-6"	0-6"	10/31/15	1036	C	Soil	1			X	No preservative. Soil analyzed wet weight
67	3127W-P4 12-18"	12-18"	10/31/15	1036	G	Soil	1			X	No preservative. Soil analyzed wet weight
68	3127W-P4 24-30"	24-30"	10/31/15	1036	G	Soil	1			X	No preservative. Soil analyzed wet weight
69	3127W-P5 0-6"	0-6"	10/31/15	1107	C	Soil	1			X	No preservative. Soil analyzed wet weight
70	3127W-P5 12-18"	12-18"	10/31/15	1107	G	Soil	1			X	No preservative. Soil analyzed wet weight
71	3127W-P5 24-30"	24-30"	10/31/15	1107	G	Soil	1			X	No preservative. Soil analyzed wet weight
72	347-P2 0-6"	0-6"	10/31/15	1243	C	Soil	1			X	No preservative. Soil analyzed wet weight
73	347-P2 12-18"	12-18"	10/31/15	1243	G	Soil	1			X	No preservative. Soil analyzed wet weight
74	347-P2 24-30"	24-30"	10/31/15	1243	G	Soil	1			X	No preservative. Soil analyzed wet weight
75	347-P4 0-6"	0-6"	10/31/15	1305	C	Soil	1			X	No preservative. Soil analyzed wet weight
76	347-P4 12-18"	12-18"	10/31/15	1305	G	Soil	1			X	No preservative. Soil analyzed wet weight
77	347-P4 24-30"	24-30"	10/31/15	1305	G	Soil	1			X	No preservative. Soil analyzed wet weight
78	347-P5 0-6"	0-6"	10/31/15	1333	C	Soil	1			X	No preservative. Soil analyzed wet weight

DUP ?

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1020	Craig Pilialoha	TA Honolulu	11/5/15 10:28 no ice, in tact bucket, 24.6°
Relinquished by: Katelyn Kato	Company: TAHON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RKiddes	Company: TASEA	Date/Time: 11/6/15 1030

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	4 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
79	347-P5 12-18"	12-18"	10/31/15	1333	G	Soil	1			X	No preservative. Soil analyzed wet weight
80	347-P5 24-30"	24-30"	10/31/15	1333	G	Soil	1			X	No preservative. Soil analyzed wet weight
81	347-P8 0-6"	0-6"	10/31/15	1351	C	Soil	1			X	No preservative. Soil analyzed wet weight
82	347-P8 12-18"	12-18"	10/31/15	1351	G	Soil	1			X	No preservative. Soil analyzed wet weight
83	347-P8 24-30"	24-30"	10/31/15	1351	G	Soil	1			X	No preservative. Soil analyzed wet weight
84	S30 Gravel Pad	0-6"	10/30/15	0945	G	Soil	1			X	No preservative. Soil analyzed wet weight
85	S28 Gravel Pad	0-6"	10/30/15	1601	G	Soil	1			X	No preservative. Soil analyzed wet weight
86	S28 -P1 0-6"	0-6"	10/29/15	1255	C	Soil	1			X	No preservative. Soil analyzed wet weight
87	S28 -P2 0-6"	0-6"	10/29/15	1304	C	Soil	1			X	No preservative. Soil analyzed wet weight
88	S28 -P3 0-6"	0-6"	10/29/15	1313	C	Soil	1			X	No preservative. Soil analyzed wet weight
89	S28 -P4 0-6"	0-6"	10/29/15	1341	C	Soil	1			X	No preservative. Soil analyzed wet weight
90	S28 -P5 0-6"	0-6"	10/29/15	1349	C	Soil	1			X	No preservative. Soil analyzed wet weight
91	S28 -P6 0-6"	0-6"	10/29/15	1403	C	Soil	1			X	No preservative. Soil analyzed wet weight
92	S28 -P7 0-6"	0-6"	10/29/15	1428	C	Soil	1			X	No preservative. Soil analyzed wet weight
93	S28 -P8 0-6"	0-6"	10/29/15	1444	C	Soil	1			X	No preservative. Soil analyzed wet weight
94	S28 -P9 0-6"	0-6"	10/29/15	1451	C	Soil	1			X	No preservative. Soil analyzed wet weight
95	S28 -P10 0-6"	0-6"	10/29/15	1456	C	Soil	1			X	No preservative. Soil analyzed wet weight
96	S28 -P11 0-6"	0-6"	10/29/15	1502	C	Soil	1			X	No preservative. Soil analyzed wet weight
97	S28 MIS 0-2"	0-2"	10/29/15	1540	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
98	S28 MIS 0-2" DUP	0-2"	10/29/15	1601	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
99	S28 MIS 0-2" Triplicate	0-2"	10/29/15	1622	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
100	S30 -P1 0-6"	0-6"	10/30/15	1116	C	Soil	1			X	No preservative. Soil analyzed wet weight
101	S30 -P2 0-6"	0-6"	10/30/15	1125	C	Soil	1			X	No preservative. Soil analyzed wet weight
102	S30 -P2 0-6" DUP	0-6"	10/30/15	1125	C	Soil	1			X	No preservative. Soil analyzed wet weight
103	S30 -P3 0-6"	0-6"	10/30/15	1136	C	Soil	1			X	No preservative. Soil analyzed wet weight
104	S30 -P4 0-6"	0-6"	10/30/15	1235	C	Soil	1			X	No preservative. Soil analyzed wet weight

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1028	Craig Philabe	TA-Honolulu	11/5/15 10-28 no ice, intact bucket, 24.6°
Relinquished by: Katelyn Asato	Company: TA HON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RKidder	Company: TASEA	Date/Time: 11/6/15 1038

TestAmerica Seattle
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Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	5 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
105	S30 -P5 0-6"	0-6"	10/30/15	1303	C	Soil	1			X	No preservative. Soil analyzed wet weight
106	S30 -P6 0-6"	0-6"	10/30/15	1312	C	Soil	1			X	No preservative. Soil analyzed wet weight
107	S30 -P7 0-6"	0-6"	10/30/15	1339	C	Soil	1			X	No preservative. Soil analyzed wet weight
108	S30 -P8 0-6"	0-6"	10/30/15	1349	C	Soil	1			X	No preservative. Soil analyzed wet weight
109	S30 -P9 0-6"	0-6"	10/30/15	1358	C	Soil	1			X	No preservative. Soil analyzed wet weight
110	S30 -P10 0-6"	0-6"	10/30/15	1407	C	Soil	1			X	No preservative. Soil analyzed wet weight
111	S30 MIS 0-2"	0-2"	10/30/15	1440	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
112	S30 MIS 0-2" DUP	0-2"	10/30/15	1503	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
113	S30 MIS 0-2" Triplicate	0-2"	10/30/15	1532	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
114	3501-P1 0-6"	0-6"	10/31/15	1428	C	Soil	1			X	No preservative. Soil analyzed wet weight
115	3501-P1 12-18"	12-18"	10/31/15	1428	G	Soil	1			X	No preservative. Soil analyzed wet weight
116	3501-P1 24-30"	24-30"	10/31/15	1428	G	Soil	1			X	No preservative. Soil analyzed wet weight
117	3501-P4 0-6"	0-6"	10/31/15	1451	C	Soil	1			X	No preservative. Soil analyzed wet weight
118	3501-P4 12-18"	12-18"	10/31/15	1451	G	Soil	1			X	No preservative. Soil analyzed wet weight
119	3501-P4 24-30"	24-30"	10/31/15	1451	G	Soil	1			X	No preservative. Soil analyzed wet weight
120	3501-P5 0-6"	0-6"	10/31/15	1512	C	Soil	1			X	No preservative. Soil analyzed wet weight
121	3501-P5 12-18"	12-18"	10/31/15	1512	G	Soil	1			X	No preservative. Soil analyzed wet weight
122	3501-P5 24-30"	24-30"	10/31/15	1512	G	Soil	1			X	No preservative. Soil analyzed wet weight
123	3501-P6 0-6"	0-6"	10/31/15	1531	C	Soil	1			X	No preservative. Soil analyzed wet weight
124	3501-P6 12-18"	12-18"	10/31/15	1531	G	Soil	1			X	No preservative. Soil analyzed wet weight
125	3501-P6 24-30"	24-30"	10/31/15	1531	G	Soil	1			X	No preservative. Soil analyzed wet weight
126	R2 Cell 1	0-6"	11/2/15	810	C	Soil	1			X	No preservative. Soil analyzed wet weight
127	R2 Cell 2	0-6"	11/2/15	822	C	Soil	1			X	No preservative. Soil analyzed wet weight
128	Equipment Rinsate	-	11/2/15	1533	500mL	Water	1			X	Nitric acid preserved
129	Trip Blank	-	-	-	VOA	Water	1			X	HLC preserved
130	Water Tower Paint	Surface	10/28/15	1242	Chip	Paint	1			X	Total lead

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1028			11/5/15
Katelyn Acato	TA HON	11/5/15 1234	Craig Pitiado	TA Honolulu	11/5/15 10:28 noice intact, temp
			Received in Laboratory by:		
			Received in Laboratory by: RKiddles	TA Sea	11/6/15 1030

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	6 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 6010 (Pb)	TCLP LEAD	Sample Specific Notes:
131	Tower Base Gray	Surface	10/28/15	1302	Surface	Paint	1			X		Total lead
~~132~~	~~NAV AID BLDG EXT PAINT~~	~~SURFACE~~	~~10/28/~~							X		
132	NAV AID BLDG EXT PAINT	SURFACE	11/4/15	1500	SURFACE	PAINT	1			X		
133	S28/S30 PAINT + DEBRIS	0-2"	10/28/15	1531	C	MIX	1			X	X	
~~134~~	~~[illegible]~~		~~10/31/15~~	~~0205~~						X		
135										X		
136										X		
137										X		
138										X		
139										X		
140										X		
141										X		
142										X		
143										X		
144										X		
145										X		
146										X		
147										X		
148										X		
149										X		
150										X		
151										X		
152										X		
153										X		
154										X		
155										X		
156										X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Scott Wakefield	GEOSYNTEC	11/5/15 10:28	Craig Pilialoha	TA Honolulu	11/5/15 10:28 no ice, intact
Katelyn Ricato	TA HON	11/5/15 1224			
			Received in Laboratory by:	Company:	Date/Time:
			RKidder	TA Sea	11/6/15 1430

TB____ Cooler 1R1 Cor 2.7 Unc 3.1
Cooler Dsc Md Rd Wht @Lab_____
Wet/Packs Packing Bubble
Fed Ex P.O. w/c.s

TB____ Cooler 1R1 Cor 2.7 Unc 3.1
Cooler Dsc lg Blu/wht @Lab_____
Wet/Packs Packing Bubble
Fed ex PO w/CS

TB____ Cooler 1R1 Cor 3.5 Unc .9
Cooler Dsc lg Blu/wht @Lab_____
Wet/Packs Packing Bubble
Fed ex PO w/CS

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-54921-1
SDG Number: Midway Atoll

Login Number: 54921
List Number: 1
Creator: Gonzales, Steve

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-54921-2
TestAmerica Sample Delivery Group: Midway Atoll
Client Project/Site: Midway Soil Sampling 2015

For:
Geosyntec Consultants, Inc.
621 Morrison Street
Suite 600
Portland, Oregon 97205

Attn: Joey Hickey

Authorized for release by:
12/29/2015 4:42:44 PM

Christabel Escarez, Project Manager I
(253)922-2310
christabel.escarez@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Job ID: 580-54921-2

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-54921-2

Comments
No additional comments.

Receipt
The samples were received on 11/6/2015 10:30 AM; the samples arrived in good condition, properly preserved, and on ice. The temperatures of the 3 coolers at receipt time were 2.7º C, 2.7º C and 3.5º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): 3126E-P5 0-6" DUP (580-54921-57), 3126E-P5 12-18" DUP (580-54921-58) and 3126E-P5 24-30" DUP (580-54921-59). The container labels list "DUP" after the IDs, while the COC lists just the IDs. The IDs on the COC have been modified to include the designation DUP for the three samples and they are logged in accordingly.

Metals
Method(s) 6010C: The following samples were diluted due to the nature of the sample matrix: R2 Cell 1 (Day 1) (580-54921-126), R2 Cell 1 (Day 2) (580-54921-134), R2 Cell 1 (Day 3) (580-54921-135), R2 Cell 1 (Day 4) (580-54921-136), R2 Cell 1 (Day 5) (580-54921-137), R2 Cell 1 (Day 6) (580-54921-138), R2 Cell 1 (Day 7) (580-54921-139), R2 Cell 1 (Day 8) (580-54921-140), R2 Cell 1 (Day 9) (580-54921-141), R2 Cell 1 (Day 10) (580-54921-142), R2 Cell 2 (Day 1) (580-54921-127), R2 Cell 2 (Day 2) (580-54921-143), R2 Cell 2 (Day 3) (580-54921-144), R2 Cell 2 (Day 4) (580-54921-145), R2 Cell 2 (Day 5) (580-54921-146), R2 Cell 2 (Day 6) (580-54921-147), R2 Cell 2 (Day 7) (580-54921-148), R2 Cell 2 (Day 8) (580-54921-149), R2 Cell 2 (Day 9) (580-54921-150), R2 Cell 2 (Day 10) (580-54921-151), (LB 180-163943/3-B ^5), (LB 180-164393/3-B ^5), (LB 180-164396/3-B ^5), (580-54921-A-145-B SD), (580-54921-A-137-B SD), and (580-54921-A-140-B SD). Elevated reporting limits (RLs) are provided. Samples were analyzed at 5x dilutions due to the indium internal standard counts being low and outside the 70%-130% control limits. (This is caused by the sodium concentration in TCLP Solution #1.)
provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Geotechnical
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 1)

Lab Sample ID: 580-54921-126

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 15:10	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 1)

Lab Sample ID: 580-54921-127

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 15:16	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 2)

Lab Sample ID: 580-54921-134

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:06	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 3)

Lab Sample ID: 580-54921-135

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:33	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 4)

Lab Sample ID: 580-54921-136

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:49	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 5)

Lab Sample ID: 580-54921-137

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 07:53	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 6)

Lab Sample ID: 580-54921-138

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:25	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 7)

Lab Sample ID: 580-54921-139

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:41	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 8)

Lab Sample ID: 580-54921-140

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:07	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 9)

Lab Sample ID: 580-54921-141

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:39	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 10)

Lab Sample ID: 580-54921-142

Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:56	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 2)

Lab Sample ID: 580-54921-143

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:12	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 3)

Lab Sample ID: 580-54921-144

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:38	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 4)

Lab Sample ID: 580-54921-145

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:54	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 5)

Lab Sample ID: 580-54921-146

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:04	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 6)

Lab Sample ID: 580-54921-147

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:30	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 7)

Lab Sample ID: 580-54921-148

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:47	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 8)

Lab Sample ID: 580-54921-149

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:18	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 9)

Lab Sample ID: 580-54921-150

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:45	5

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 10)

Lab Sample ID: 580-54921-151

Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Method: 6010C - Metals (ICP) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 14:01	5

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-163304/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10	2.1	ug/L		12/12/15 07:00	12/14/15 13:27	1

Lab Sample ID: LCS 180-163304/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	484		ug/L		97	80 - 120

Lab Sample ID: LCSD 180-163304/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	500	478		ug/L		96	80 - 120	1	20

Lab Sample ID: MB 180-164334/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 164484 — **Prep Batch: 164334**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10	2.1	ug/L		12/22/15 06:28	12/23/15 07:32	1

Lab Sample ID: LCS 180-164334/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 164484 — **Prep Batch: 164334**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	491		ug/L		98	80 - 120

Lab Sample ID: LCSD 180-164334/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 164484 — **Prep Batch: 164334**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	500	495		ug/L		99	80 - 120	1	20

Lab Sample ID: MB 180-164545/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 164766 — **Prep Batch: 164545**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10	2.1	ug/L		12/23/15 13:16	12/24/15 12:47	1

Lab Sample ID: LCS 180-164545/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 164766 — **Prep Batch: 164545**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	500	511		ug/L		102	80 - 120

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Lab Sample ID: LCSD 180-164545/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 164766 — **Prep Batch: 164545**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			500	512		ug/L		102	80 - 120	0	20

Lab Sample ID: LB 180-162692/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 15:05	5

Lab Sample ID: LB 180-162862/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:01	5

Lab Sample ID: LB 180-162998/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:17	5

Lab Sample ID: LB 180-163152/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 163534 — **Prep Batch: 163304**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/12/15 07:00	12/14/15 14:44	5

Lab Sample ID: PB 180-163210/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 163534 — **Prep Batch: 163308**

Analyte	PB Result	PB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		10	2.1	ug/L		12/12/15 07:06	12/14/15 21:52	1

Lab Sample ID: LB 180-163412/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 164484 — **Prep Batch: 164334**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 07:47	5

Lab Sample ID: LB 180-163584/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 164484 — **Prep Batch: 164334**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:19	5

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LB 180-163736/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 164484 — **Prep Batch: 164334**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/22/15 06:28	12/23/15 08:36	5

Lab Sample ID: LB 180-163943/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 164766 — **Prep Batch: 164545**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:02	5

Lab Sample ID: LB 180-164393/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 164766 — **Prep Batch: 164545**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:34	5

Lab Sample ID: LB 180-164396/3-B ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Leach**
Analysis Batch: 164766 — **Prep Batch: 164545**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		50	11	ug/L		12/23/15 13:16	12/24/15 13:50	5

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 1)

Lab Sample ID: 580-54921-126
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			162692	12/07/15 10:21	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 15:10	RJG	TAL PIT

Client Sample ID: R2 Cell 2 (Day 1)

Lab Sample ID: 580-54921-127
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			162692	12/07/15 10:21	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 15:16	RJG	TAL PIT

Client Sample ID: R2 Cell 1 (Day 2)

Lab Sample ID: 580-54921-134
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			162862	12/08/15 13:39	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 14:06	RJG	TAL PIT

Client Sample ID: R2 Cell 1 (Day 3)

Lab Sample ID: 580-54921-135
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			162998	12/09/15 13:32	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 14:33	RJG	TAL PIT

Client Sample ID: R2 Cell 1 (Day 4)

Lab Sample ID: 580-54921-136
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163152	12/10/15 15:11	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 14:49	RJG	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 5)

Lab Sample ID: 580-54921-137
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163412	12/14/15 08:11	JPM	TAL PIT
Leach	Prep	3010A			164334	12/22/15 06:28	RJR	TAL PIT
Leach	Analysis	6010C		5	164484	12/23/15 07:53	RJG	TAL PIT

Client Sample ID: R2 Cell 1 (Day 6)

Lab Sample ID: 580-54921-138
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163584	12/15/15 09:34	JPM	TAL PIT
Leach	Prep	3010A			164334	12/22/15 06:28	RJR	TAL PIT
Leach	Analysis	6010C		5	164484	12/23/15 08:25	RJG	TAL PIT

Client Sample ID: R2 Cell 1 (Day 7)

Lab Sample ID: 580-54921-139
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163736	12/16/15 10:12	JPM	TAL PIT
Leach	Prep	3010A			164334	12/22/15 06:28	RJR	TAL PIT
Leach	Analysis	6010C		5	164484	12/23/15 08:41	RJG	TAL PIT

Client Sample ID: R2 Cell 1 (Day 8)

Lab Sample ID: 580-54921-140
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163943	12/17/15 13:54	JPM	TAL PIT
Leach	Prep	3010A			164545	12/23/15 13:16	CLL	TAL PIT
Leach	Analysis	6010C		5	164766	12/24/15 13:07	RJR	TAL PIT

Client Sample ID: R2 Cell 1 (Day 9)

Lab Sample ID: 580-54921-141
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			164393	12/22/15 12:54	JPM	TAL PIT
Leach	Prep	3010A			164545	12/23/15 13:16	CLL	TAL PIT
Leach	Analysis	6010C		5	164766	12/24/15 13:39	RJR	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 1 (Day 10)

Lab Sample ID: 580-54921-142
Date Collected: 11/02/15 08:10
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			164396	12/22/15 13:05	JPM	TAL PIT
Leach	Prep	3010A			164545	12/23/15 13:16	CLL	TAL PIT
Leach	Analysis	6010C		5	164766	12/24/15 13:56	RJR	TAL PIT

Client Sample ID: R2 Cell 2 (Day 2)

Lab Sample ID: 580-54921-143
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			162862	12/08/15 13:39	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 14:12	RJG	TAL PIT

Client Sample ID: R2 Cell 2 (Day 3)

Lab Sample ID: 580-54921-144
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			162998	12/09/15 13:32	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 14:38	RJG	TAL PIT

Client Sample ID: R2 Cell 2 (Day 4)

Lab Sample ID: 580-54921-145
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163152	12/10/15 15:11	JPM	TAL PIT
Leach	Prep	3010A			163304	12/12/15 07:00	RJR	TAL PIT
Leach	Analysis	6010C		5	163534	12/14/15 14:54	RJG	TAL PIT

Client Sample ID: R2 Cell 2 (Day 5)

Lab Sample ID: 580-54921-146
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163412	12/14/15 08:11	JPM	TAL PIT
Leach	Prep	3010A			164334	12/22/15 06:28	RJR	TAL PIT
Leach	Analysis	6010C		5	164484	12/23/15 08:04	RJG	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Client Sample ID: R2 Cell 2 (Day 6)

Lab Sample ID: 580-54921-147
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163584	12/15/15 09:34	JPM	TAL PIT
Leach	Prep	3010A			164334	12/22/15 06:28	RJR	TAL PIT
Leach	Analysis	6010C		5	164484	12/23/15 08:30	RJG	TAL PIT

Client Sample ID: R2 Cell 2 (Day 7)

Lab Sample ID: 580-54921-148
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163736	12/16/15 10:12	JPM	TAL PIT
Leach	Prep	3010A			164334	12/22/15 06:28	RJR	TAL PIT
Leach	Analysis	6010C		5	164484	12/23/15 08:47	RJG	TAL PIT

Client Sample ID: R2 Cell 2 (Day 8)

Lab Sample ID: 580-54921-149
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			163943	12/17/15 13:54	JPM	TAL PIT
Leach	Prep	3010A			164545	12/23/15 13:16	CLL	TAL PIT
Leach	Analysis	6010C		5	164766	12/24/15 13:18	RJR	TAL PIT

Client Sample ID: R2 Cell 2 (Day 9)

Lab Sample ID: 580-54921-150
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			164393	12/22/15 12:54	JPM	TAL PIT
Leach	Prep	3010A			164545	12/23/15 13:16	CLL	TAL PIT
Leach	Analysis	6010C		5	164766	12/24/15 13:45	RJR	TAL PIT

Client Sample ID: R2 Cell 2 (Day 10)

Lab Sample ID: 580-54921-151
Date Collected: 11/02/15 08:22
Matrix: Solid
Date Received: 11/06/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1320			164396	12/22/15 13:05	JPM	TAL PIT
Leach	Prep	3010A			164545	12/23/15 13:16	CLL	TAL PIT
Leach	Analysis	6010C		5	164766	12/24/15 14:01	RJR	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Laboratory: TestAmerica Seattle

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-16
California	State Program	9	2901	01-31-17
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20
Oregon	NELAP	10	WA100007	11-06-16
US Fish & Wildlife	Federal		LE058448-0	02-28-16
USDA	Federal		P330-14-00126	04-08-17
Washington	State Program	10	C553	02-17-16

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-16
California	State Program	9	2891	03-31-16
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-16
Illinois	NELAP	5	200005	06-30-16
Kansas	NELAP	7	E-10350	01-31-16 *
Louisiana	NELAP	6	04041	06-30-16
New Hampshire	NELAP	1	2030	04-04-16
New Jersey	NELAP	2	PA005	06-30-16
New York	NELAP	2	11182	03-31-16
North Carolina (WW/SW)	State Program	4	434	12-31-16
Pennsylvania	NELAP	3	02-00416	04-30-16
South Carolina	State Program	4	89014	04-30-16
Texas	NELAP	6	T104704528-15-2	03-31-16
USDA	Federal		P-Soil-01	05-23-16
Utah	NELAP	8	PA001462015-4	05-31-16
Virginia	NELAP	3	460189	09-14-16
West Virginia DEP	State Program	3	142	01-31-16
Wisconsin	State Program	5	998027800	08-31-16

* Certification renewal pending - certification considered valid.

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Midway Soil Sampling 2015

TestAmerica Job ID: 580-54921-2
SDG: Midway Atoll

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-54921-126	R2 Cell 1 (Day 1)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-127	R2 Cell 2 (Day 1)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-134	R2 Cell 1 (Day 2)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-135	R2 Cell 1 (Day 3)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-136	R2 Cell 1 (Day 4)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-137	R2 Cell 1 (Day 5)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-138	R2 Cell 1 (Day 6)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-139	R2 Cell 1 (Day 7)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-140	R2 Cell 1 (Day 8)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-141	R2 Cell 1 (Day 9)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-142	R2 Cell 1 (Day 10)	Solid	11/02/15 08:10	11/06/15 10:30
580-54921-143	R2 Cell 2 (Day 2)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-144	R2 Cell 2 (Day 3)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-145	R2 Cell 2 (Day 4)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-146	R2 Cell 2 (Day 5)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-147	R2 Cell 2 (Day 6)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-148	R2 Cell 2 (Day 7)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-149	R2 Cell 2 (Day 8)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-150	R2 Cell 2 (Day 9)	Solid	11/02/15 08:22	11/06/15 10:30
580-54921-151	R2 Cell 2 (Day 10)	Solid	11/02/15 08:22	11/06/15 10:30

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other: 54921

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	1 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

580-54921 Chain of Custody

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 6010 (Pb)	Sample Specific Notes:
1	424P100 0-2"	0-2"	9/26/15	0820	C	Soil	1			X	No preservative. Soil analyzed wet weight
2	424P100 0-2" DUP	0-2"	9/26/15	0820	C	Soil	1			X	No preservative. Soil analyzed wet weight
3	424P101 0-2"	0-2"	9/26/15	0844	C	Soil	1			X	No preservative. Soil analyzed wet weight
4	424P101 0-2" DUP	0-2"	9/26/15	0844	C	Soil	1			X	No preservative. Soil analyzed wet weight
5	423P100 0-2"	0-2"	9/26/15	0929	C	Soil	1			X	No preservative. Soil analyzed wet weight
6	423P100 0-2" DUP	0-2"	9/26/15	0929	C	Soil	1			X	No preservative. Soil analyzed wet weight
7	422P100 0-2"	0-2"	9/26/15	0945	C	Soil	1			X	No preservative. Soil analyzed wet weight
8	422P100 0-2" DUP	0-2"	9/26/15	0945	C	Soil	1			X	No preservative. Soil analyzed wet weight
9	419 MIS 0-2"	0-2"	9/26/15	1052	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
10	419 MIS 0-2" DUP	0-2"	9/26/15	1115	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
11	419 MIS 0-2" Triplicate	0-2"	9/26/15	1133	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
12	421 MIS 0-2"	0-2"	9/28/15	1027	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
13	421 MIS 0-2" DUP	0-2"	9/28/15	1044	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
14	421 MIS 0-2" Triplicate	0-2"	9/28/15	1057	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
15	415 MIS 0-2"	0-2"	9/28/15	1407	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
16	415 MIS 0-2" DUP	0-2"	9/28/15	1427	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
17	415 MIS 0-2" Triplicate	0-2"	9/30/15	1435	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
18	4208P100 0-2"	0-2"	10/2/15	1015	C	Soil	1			X	No preservative. Soil analyzed wet weight
19	4208P100 0-2" DUP	0-2"	10/2/15	1015	C	Soil	1			X	No preservative. Soil analyzed wet weight
20	4208P101 0-2"	0-2"	10/2/15	1108	C	Soil	1			X	No preservative. Soil analyzed wet weight
21	4208P101 0-2" DUP	0-2"	10/2/15	1108	C	Soil	1			X	No preservative. Soil analyzed wet weight
22	414 MIS 0-2"	0-2"	10/2/15	1220	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
23	414 MIS 0-2" DUP	0-2"	10/2/15	1236	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
24	414 MIS 0-2" Triplicate	0-2"	10/2/15	1258	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
25	S1126 BLUE CHIP	Surface	10/3/15	1240	Chip	Paint	1			X	Total lead
26	S1126 WHITE CHIP	Surface	10/3/15	1244	Chip	Paint	1			X	Total lead

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1028	Craig Pilidal	TA-Honolulu	11/5/15 10:28 noice in bucket, 2
Relinquished by: Katelyn Acato Kaupau	Company: TA HON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RLeader	Company: TASEA	Date/Time: 11/6/15 1030

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	2 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
27	4204 MIS 0-2"	0-2"	10/3/15	1401	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
28	4204 MIS 0-2" DUP	0-2"	10/3/15	1421	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
29	4204 MIS 0-2" Triplicate	0-2"	10/3/15	1439	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
30	4203 MIS 0-2"	0-2"	10/5/15	0915	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
31	4203 MIS 0-2" DUP	0-2"	10/5/15	0924	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
32	4203 MIS 0-2" Triplicate	0-2"	10/5/15	0942	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
33	5309 MIS A 0-2"	0-2"	10/9/15	1303	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
34	5309 MIS A 0-2" DUP	0-2"	10/9/15	1322	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
35	5309 MIS A 0-2" Triplicate	0-2"	10/9/15	1338	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
36	5309 MIS B 0-2"	0-2"	10/12/15	0740	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
37	5309 MIS B 0-2" DUP	0-2"	10/12/15	0754	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
38	5309 MIS B 0-2" Triplicate	0-2"	10/12/15	0808	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
39	R2 MIS A NE 0-2"	0-2"	10/16/15	1715	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
40	R2 MIS A NE 0-2" DUP	0-2"	10/16/15	1725	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
41	R2 MIS A NE 0-2" Triplicate	0-2"	10/16/15	1735	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
42	R2 MIS B NE 0-2"	0-2"	10/16/15	1618	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
43	R2 MIS B NE 0-2" DUP	0-2"	10/16/15	1634	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
44	R2 MIS B NE 0-2" Triplicate	0-2"	10/16/15	1647	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
45	3126E-P2 0-6"	0-6"	10/31/15	0755	C	Soil	1			X	No preservative. Soil analyzed wet weight
46	3126E-P2 12-18"	12-18"	10/31/15	0755	G	Soil	1			X	No preservative. Soil analyzed wet weight
47	3126E-P2 24-30"	24-30"	10/31/15	0755	G	Soil	1			X	No preservative. Soil analyzed wet weight
48	3126E-P3 0-6"	0-6"	10/31/15	0820	C	Soil	1			X	No preservative. Soil analyzed wet weight
49	3126E-P3 12-18"	12-18"	10/31/15	0820	G	Soil	1			X	No preservative. Soil analyzed wet weight
50	3126E-P3 24-30"	24-30"	10/31/15	0820	G	Soil	1			X	No preservative. Soil analyzed wet weight
51	3126E-P4 0-6"	0-6"	10/31/15	0841	C	Soil	1			X	No preservative. Soil analyzed wet weight
52	3126E-P4 12-18"	12-18"	10/31/15	0841	G	Soil	1			X	No preservative. Soil analyzed wet weight

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by: See final page for signed chain of custody for all pages	Company: GEOSYNTEC	Date/Time: 11/5/15 1028	Received by: Craig Pilidoha	Company: TA Honolulu	Date/Time: no ice, in tact, 11/5/15, 10:20 bucket, 24.6°C
Relinquished by: Katelyn Ikato	Company: TA HON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RKidder	Company: TASEA	Date/Time: 11/6/15 1030

12/29/2015

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	3 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
53	3126E-P4 24-30"	24-30"	10/31/15	0841	G	Soil	1			X	No preservative. Soil analyzed wet weight
54	3126E-P5 0-6"	0-6"	10/31/15	0905	C	Soil	1			X	No preservative. Soil analyzed wet weight
55	3126E-P5 12-18"	12-18"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
56	3126E-P5 24-30"	24-30"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
57	3126E-P5 0-6" DUP 11/11/15	0-6"	10/31/15	0905	C	Soil	1			X	No preservative. Soil analyzed wet weight
58	3126E-P5 12-18" DUP	12-18"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
59	3126E-P5 24-30" DUP	24-30"	10/31/15	0905	G	Soil	1			X	No preservative. Soil analyzed wet weight
60	3127W-P1 0-6"	0-6"	10/31/15	0950	C	Soil	1			X	No preservative. Soil analyzed wet weight
61	3127W-P1 12-18"	12-18"	10/31/15	0950	G	Soil	1			X	No preservative. Soil analyzed wet weight
62	3127W-P1 24-30"	24-30"	10/31/15	0950	G	Soil	1			X	No preservative. Soil analyzed wet weight
63	3127W-P3 0-6"	0-6"	10/31/15	1014	C	Soil	1			X	No preservative. Soil analyzed wet weight
64	3127W-P3 12-18"	12-18"	10/31/15	1014	G	Soil	1			X	No preservative. Soil analyzed wet weight
65	3127W-P3 24-30"	24-30"	10/31/15	1014	G	Soil	1			X	No preservative. Soil analyzed wet weight
66	3127W-P4 0-6"	0-6"	10/31/15	1036	C	Soil	1			X	No preservative. Soil analyzed wet weight
67	3127W-P4 12-18"	12-18"	10/31/15	1036	G	Soil	1			X	No preservative. Soil analyzed wet weight
68	3127W-P4 24-30"	24-30"	10/31/15	1036	G	Soil	1			X	No preservative. Soil analyzed wet weight
69	3127W-P5 0-6"	0-6"	10/31/15	1107	C	Soil	1			X	No preservative. Soil analyzed wet weight
70	3127W-P5 12-18"	12-18"	10/31/15	1107	G	Soil	1			X	No preservative. Soil analyzed wet weight
71	3127W-P5 24-30"	24-30"	10/31/15	1107	G	Soil	1			X	No preservative. Soil analyzed wet weight
72	347-P2 0-6"	0-6"	10/31/15	1243	C	Soil	1			X	No preservative. Soil analyzed wet weight
73	347-P2 12-18"	12-18"	10/31/15	1243	G	Soil	1			X	No preservative. Soil analyzed wet weight
74	347-P2 24-30"	24-30"	10/31/15	1243	G	Soil	1			X	No preservative. Soil analyzed wet weight
75	347-P4 0-6"	0-6"	10/31/15	1305	C	Soil	1			X	No preservative. Soil analyzed wet weight
76	347-P4 12-18"	12-18"	10/31/15	1305	G	Soil	1			X	No preservative. Soil analyzed wet weight
77	347-P4 24-30"	24-30"	10/31/15	1305	G	Soil	1			X	No preservative. Soil analyzed wet weight
78	347-P5 0-6"	0-6"	10/31/15	1333	C	Soil	1			X	No preservative. Soil analyzed wet weight

DUP ?

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1020	Craig Pilialoha	TA Honolulu	11/5/15 10:28 no ice, in tact bucket, 24.6°
Relinquished by: Katelyn Kato	Company: TAHON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RKiddes	Company: TASEA	Date/Time: 11/6/15 1030

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	4 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
79	347-P5 12-18"	12-18"	10/31/15	1333	G	Soil	1			X	No preservative. Soil analyzed wet weight
80	347-P5 24-30"	24-30"	10/31/15	1333	G	Soil	1			X	No preservative. Soil analyzed wet weight
81	347-P8 0-6"	0-6"	10/31/15	1351	C	Soil	1			X	No preservative. Soil analyzed wet weight
82	347-P8 12-18"	12-18"	10/31/15	1351	G	Soil	1			X	No preservative. Soil analyzed wet weight
83	347-P8 24-30"	24-30"	10/31/15	1351	G	Soil	1			X	No preservative. Soil analyzed wet weight
84	S30 Gravel Pad	0-6"	10/30/15	0945	G	Soil	1			X	No preservative. Soil analyzed wet weight
85	S28 Gravel Pad	0-6"	10/30/15	1601	G	Soil	1			X	No preservative. Soil analyzed wet weight
86	S28 -P1 0-6"	0-6"	10/29/15	1255	C	Soil	1			X	No preservative. Soil analyzed wet weight
87	S28 -P2 0-6"	0-6"	10/29/15	1304	C	Soil	1			X	No preservative. Soil analyzed wet weight
88	S28 -P3 0-6"	0-6"	10/29/15	1313	C	Soil	1			X	No preservative. Soil analyzed wet weight
89	S28 -P4 0-6"	0-6"	10/29/15	1341	C	Soil	1			X	No preservative. Soil analyzed wet weight
90	S28 -P5 0-6"	0-6"	10/29/15	1349	C	Soil	1			X	No preservative. Soil analyzed wet weight
91	S28 -P6 0-6"	0-6"	10/29/15	1403	C	Soil	1			X	No preservative. Soil analyzed wet weight
92	S28 -P7 0-6"	0-6"	10/29/15	1428	C	Soil	1			X	No preservative. Soil analyzed wet weight
93	S28 -P8 0-6"	0-6"	10/29/15	1444	C	Soil	1			X	No preservative. Soil analyzed wet weight
94	S28 -P9 0-6"	0-6"	10/29/15	1451	C	Soil	1			X	No preservative. Soil analyzed wet weight
95	S28 -P10 0-6"	0-6"	10/29/15	1456	C	Soil	1			X	No preservative. Soil analyzed wet weight
96	S28 -P11 0-6"	0-6"	10/29/15	1502	C	Soil	1			X	No preservative. Soil analyzed wet weight
97	S28 MIS 0-2"	0-2"	10/29/15	1540	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
98	S28 MIS 0-2" DUP	0-2"	10/29/15	1601	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
99	S28 MIS 0-2" Triplicate	0-2"	10/29/15	1622	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
100	S30 -P1 0-6"	0-6"	10/30/15	1116	C	Soil	1			X	No preservative. Soil analyzed wet weight
101	S30 -P2 0-6"	0-6"	10/30/15	1125	C	Soil	1			X	No preservative. Soil analyzed wet weight
102	S30 -P2 0-6" DUP	0-6"	10/30/15	1125	C	Soil	1			X	No preservative. Soil analyzed wet weight
103	S30 -P3 0-6"	0-6"	10/30/15	1136	C	Soil	1			X	No preservative. Soil analyzed wet weight
104	S30 -P4 0-6"	0-6"	10/30/15	1235	C	Soil	1			X	No preservative. Soil analyzed wet weight

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1028	Craig Filiabue	TA-Honolulu	11/5/15 10-28 no ice, intact bucket, 24.6°
Relinquished by: Katelyn Asato	Company: TA-HON	Date/Time: 11/5/15 1234	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: RKidder	Company: TASEA	Date/Time: 11/6/15 1038

12/29/2015

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	5 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EPA 6010 (Pb)	Sample Specific Notes:
105	S30 -P5 0-6"	0-6"	10/30/15	1303	C	Soil	1			X	No preservative. Soil analyzed wet weight
106	S30 -P6 0-6"	0-6"	10/30/15	1312	C	Soil	1			X	No preservative. Soil analyzed wet weight
107	S30 -P7 0-6"	0-6"	10/30/15	1339	C	Soil	1			X	No preservative. Soil analyzed wet weight
108	S30 -P8 0-6"	0-6"	10/30/15	1349	C	Soil	1			X	No preservative. Soil analyzed wet weight
109	S30 -P9 0-6"	0-6"	10/30/15	1358	C	Soil	1			X	No preservative. Soil analyzed wet weight
110	S30 -P10 0-6"	0-6"	10/30/15	1407	C	Soil	1			X	No preservative. Soil analyzed wet weight
111	S30 MIS 0-2"	0-2"	10/30/15	1440	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
112	S30 MIS 0-2" DUP	0-2"	10/30/15	1503	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
113	S30 MIS 0-2" Triplicate	0-2"	10/30/15	1532	MIS	Soil	1			X	No preservative. Soil analyzed wet weight
114	3501-P1 0-6"	0-6"	10/31/15	1428	C	Soil	1			X	No preservative. Soil analyzed wet weight
115	3501-P1 12-18"	12-18"	10/31/15	1428	G	Soil	1			X	No preservative. Soil analyzed wet weight
116	3501-P1 24-30"	24-30"	10/31/15	1428	G	Soil	1			X	No preservative. Soil analyzed wet weight
117	3501-P4 0-6"	0-6"	10/31/15	1451	C	Soil	1			X	No preservative. Soil analyzed wet weight
118	3501-P4 12-18"	12-18"	10/31/15	1451	G	Soil	1			X	No preservative. Soil analyzed wet weight
119	3501-P4 24-30"	24-30"	10/31/15	1451	G	Soil	1			X	No preservative. Soil analyzed wet weight
120	3501-P5 0-6"	0-6"	10/31/15	1512	C	Soil	1			X	No preservative. Soil analyzed wet weight
121	3501-P5 12-18"	12-18"	10/31/15	1512	G	Soil	1			X	No preservative. Soil analyzed wet weight
122	3501-P5 24-30"	24-30"	10/31/15	1512	G	Soil	1			X	No preservative. Soil analyzed wet weight
123	3501-P6 0-6"	0-6"	10/31/15	1531	C	Soil	1			X	No preservative. Soil analyzed wet weight
124	3501-P6 12-18"	12-18"	10/31/15	1531	G	Soil	1			X	No preservative. Soil analyzed wet weight
125	3501-P6 24-30"	24-30"	10/31/15	1531	G	Soil	1			X	No preservative. Soil analyzed wet weight
126	R2 Cell 1	0-6"	11/2/15	810	C	Soil	1			X	No preservative. Soil analyzed wet weight
127	R2 Cell 2	0-6"	11/2/15	822	C	Soil	1			X	No preservative. Soil analyzed wet weight
128	Equipment Rinsate	-	11/2/15	1533	500mL	Water	1			X	Nitric acid preserved
129	Trip Blank	-	-	-	VOA	Water	1			X	HLC preserved
130	Water Tower Paint	Surface	10/28/15	1242	Chip	Paint	1			X	Total lead

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
See final page for signed chain of custody for all pages	GEOSYNTEC	11/5/15 1028			11/5/15
Kateryn Asato	TA HON	11/5/15 1234	Craig Pitiado	TA Honolulu	11/5/15 10:28 no ice, in tact, temp 6°C
			Received in Laboratory by:		
			Received in Laboratory by: RKiddles	TASea	11/6/15 1030

12/29/2015

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax

Chain of Custody Record

54921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☐Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Joey Hickey	Site Contact: Scott Wakefield	Date: 11/3/2015	COC No:
Geosyntec Consultants	Tel/Fax: 971-271-5897	Lab Contact:	Carrier:	6 of 6 COCs
621 SW Morrison Street, Suite 600	Analysis Turnaround Time			Sampler:
Portland, Oregon 97205	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(971) 271-5897 Phone	TAT if different from Below _____			Walk-in Client:
(971) 271-5884 FAX	☑ 2 weeks			Lab Sampling:
Project Name: Midway Soil Sampling 2015	☐ 1 week			
Site: Midway Atoll	☐ 2 days			Job / SDG No.:
P O # PNG0671	☐ 1 day			

	CLIENT SAMPLE IDENTIFICATION	SAMPLE DEPTH	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EPA 6010 (Pb)	TCLP LEAD	Sample Specific Notes:
131	Tower Base Gray	Surface	10/28/15	1302	Surface	Paint	1			X		Total lead
~~132~~	~~NAV AID BLDG EXT PAINT~~	~~SURFACE~~	~~10/28/~~							X		
132	NAV AID BLDG EXT PAINT	SURFACE	11/4/15	1500	SURFACE	PAINT	1			X		
133	S28/S30 PAINT + DEBRIS	0-2"	10/28/15	1531	C	MIX	1			X	X	
~~134~~	~~[illegible]~~		~~10/31/15~~	~~0205~~						X		
135										X		
136										X		
137										X		
138										X		
139										X		
140										X		
141										X		
142										X		
143										X		
144										X		
145										X		
146										X		
147										X		
148										X		
149										X		
150										X		
151										X		
152										X		
153										X		
154										X		
155										X		
156										X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Poison B ☐Skin Irritant ☐Flammable ☐Flammable ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Rate is per previous contract

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Scott Wakefield	GEOSYNTEC	11/5/15 10:28	Craig Pilialoha	TA Honolulu	11/5/15 10:28 no ice, intact
Katelyn Ricato	TA HON	11/5/15 1224			
			Received in Laboratory by:	Company:	Date/Time:
			Received in Laboratory by: RKidder	TA Sea	11/6/15 1430

12/29/2015

TB____ Cooler 1R1 Cor 2.7 Unc 3.1
Cooler Dsc Md Rd Wht @Lab_____
Wet/Packs Packing Bubble
Fed Ex P.O. w/c.s

TB____ Cooler 1R1 Cor 2.7 Unc 3.1
Cooler Dsc lg Blu/wht @Lab_____
Wet/Packs Packing Bubble
Fed ex PO w/CS

TB____ Cooler 1R1 Cor 3.5 Unc .9
Cooler Dsc lg Blu/wht @Lab_____
Wet/Packs Packing Bubble
Fed ex PO w/CS

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-54921-2
SDG Number: Midway Atoll

Login Number: 54921
List Number: 1
Creator: Gonzales, Steve

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-54921-2
SDG Number: Midway Atoll

Login Number: 54921
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 12/02/15 01:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-54921-2
SDG Number: Midway Atoll

Login Number: 54921
List Number: 3
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh
List Creation: 12/21/15 03:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 580-54921-2
SDG Number: Midway Atoll

Login Number: 54921
List Number: 4
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh
List Creation: 12/21/15 03:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

FIELD PROCEDURES

APPENDIX E

FIELD PROCEDURES

This appendix describes the field procedures, field quality assurance/quality control (QA/QC) protocol, and the chemical testing program to be implemented during site activities. The field activities included the following activities:

- Collection of soil samples from hand tools;
- Collection of soil from hand augers;
- Location control;
- Decontamination procedures; and
- Handling of Investigation Derived Waste (IDW).

Collection of Soil Samples Using Hand Tools

Soil samples were collected from near-surface using tools such as spades, shovels, trowels, and scoops. At each sample location, hand tools were used to remove surface soil until the desired sample depth interval was reached. At that depth, a sample was collected using a stainless steel or plastic scoop. Representative soil samples were collected using this procedure with proper care. Chrome-plated tools were not be used.

If soil sample was a discrete sample, the sample was collected soil using a clean/decontaminated stainless-steel or plastic spoon. Composite soil samples were collected using a stainless-steel or plastic spoon, and transferred to new 1 gallon Ziploc bag. The samples were mixed in the bowl to make a single sample.

Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

Collection of Soil Samples from Hand Augers

This system consists of an auger, a series of extensions, and a "T" handle. The auger is used to bore a hole to a desired sampling depth, and is then withdrawn. The sample is collected directly from the auger. The hand auger sampling procedure is summarized below:

- Attach the auger bit to a drill rod extension, and attach the "T" handle to the drill rod.
- Clear the area to be sampled of any surface debris (e.g., twigs, rocks, litter). It may be advisable to remove the first three to six inches of surface soil for an area approximately six inches in radius around the drilling location.

- Begin augering, periodically removing and depositing accumulated soils onto a plastic sheet near the hole. This prevents accidental brushing of loose material back down the borehole when removing the auger or adding drill rods. It also facilitates refilling the hole, and avoids possible contamination of the surrounding area.
- After reaching the desired depth, slowly and carefully remove the auger from the hole. When sampling directly from the auger, collect the sample after the auger is removed from the hole.
- Place the sample into a stainless steel, plastic, or other appropriate homogenization container, and mix thoroughly to obtain a homogenous sample representative of the entire sampling interval. Then, place the sample into appropriate, labeled containers and secure the caps tightly. If another sample is to be collected in the same hole, but at a greater depth, reattach the auger bit to the drill and assembly, and follow the steps above.
- Abandon the hole according to applicable regulations. Generally, shallow holes can simply be backfilled with the removed soil material.

Location Control

Geosyntec will record the position of each exploration by measuring the location to known site features.

Decontamination Procedures

The objective of the decontamination procedure was to minimize the potential for cross contamination between exploration locations and between individual samples within a specific exploration. Sampling equipment was decontaminated in accordance with the following procedures before each sampling attempt or measurement.

- Brush equipment with a wire brush, if necessary, to remove large particulate matter;
- Rinse with potable tap water;
- Wash with non-phosphate low pH solution of Citrinox® detergent and potable tap water; and
- Rinse with potable tap water.

Handling of Investigation-Derived Waste

IDW generated during the project included soil cuttings and decontamination water. Soil cuttings were placed back in the exploration in the order removed. Purge water was also discharge back to an area of the Decision Unit that is set for excavation. Disposable

items, such as sample bags, gloves and protective overalls and paper towels, were placed in plastic bags after use and deposited in trash receptacles for disposal.

Laboratory Analytical Plan

Laboratory analyses were conducted in accordance with EPA approved methods. The project utilized the laboratories accepted method detection limits as our reporting goals. All samples were analyzed for total lead in soil using EPA Method 6010 and multiple extraction procedure for lead.

APPENDIX F

DECISION UNIT 9 DOCUMENTATION

Fig F-18
Boat
Houses

Fig F-13
Bldg S464

Fig F-14
Bldg 140

Fig F-11
Bldg 232
& 233

Fig F-7
Bldg 425
& S426

Fig F-12
Bldg 269,
2127, 2254

Fig F-15
Bldg
144

Fig F-17
Bldg S1126

Fig F-8
Bldg
5342

Fig F-5
Bldg
502

Fig F-16
Bldg
1124

Fig F-6
S598

Fig F-2
Bldgs
347, 3501,
S3126 & S3127

Fig F-3
Bldg
521

Fig F-10
Bldg
3521

Fig F-4
Bldg 520

Fig F-1
Bldg S361

Fig F-9
Bldg 309, 340,
354 & 9149

0 675 1,350

SCALE IN FEET

LEGEND

Fire Hydrant Lead Results in Soil (mg/kg)	Lead Results in Soil (mg/kg)
<75	<75
75 - 750	75 - 750
>750	>750
	Area Shown In Figure Set

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Ge
Community

LEAD RESULTS IN SOIL
DECISION UNIT 9
REMOVAL OF LEAD BASED PAINT FROM
STRUCTURES AND LEAD CONTAMINATED
SOIL AT MIDWAY ATOLL

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

PORTLAND, OR | FEB 2016

Figure:
F

Path: N:\MMidway\GIS\End_2015_Report\FigA_LeadResults_IslandWide_Post2014.mxd

P10

Depth (in)	Lead
0-6	37
12-18	9.6
24-30	0.36 J

P9

Depth (in)	Lead
0-6	43
12-18	18
24-30	9

P13

Depth (in)	Lead
0-6	34
12-18	12
24-30	62
30-36	7.6

P8

Depth (in)	Lead
0-6	38
12-18	38
24-30	14

P11

Depth (in)	Lead
0-6	51
12-18	87
24-30	43

P12

Depth (in)	Lead
0-6	59
12-18	24
24-30	35

P7

Depth (in)	Lead
0-6	41
12-18	4.3
24-30	3.5

P16

Depth (in)	Lead
0-6	54
12-18	9
24-30	21

P6

Depth (in)	Lead
0-6	36
12-18	15
24-30	2.3
30-36	1.1 U

Building S361
(Pesticide Storage)

P14

Depth (in)	Lead
0-6	40
12-18	6.3
24-30	5.7

P5

Depth (in)	Lead
0-6	60
12-18	69
24-30	7.7

P15

Depth (in)	Lead
0-6	31
12-18	30
24-30	19

P4

Depth (in)	Lead
0-6	43
12-18	25
24-30	14

P3

Depth (in)	Lead
0-6	42
12-18	4.6
24-30	10

P17

Depth (in)	Lead
0-6	42
12-18	2.8
24-30	1.1 U

P1

Depth (in)	Lead
0-6	31
12-18	13
24-30	0.59 J

P2

Depth (in)	Lead
0-6	57
12-18	19
24-30	0.34 J

N

0 20 40

SCALE IN FEET

Legend/Notes

15' Buffer

30' Buffer

45' Buffer

Current and Historical Sampling Locations

J indicates estimated amount

U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING S361
(PESTICIDE STORAGE)

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

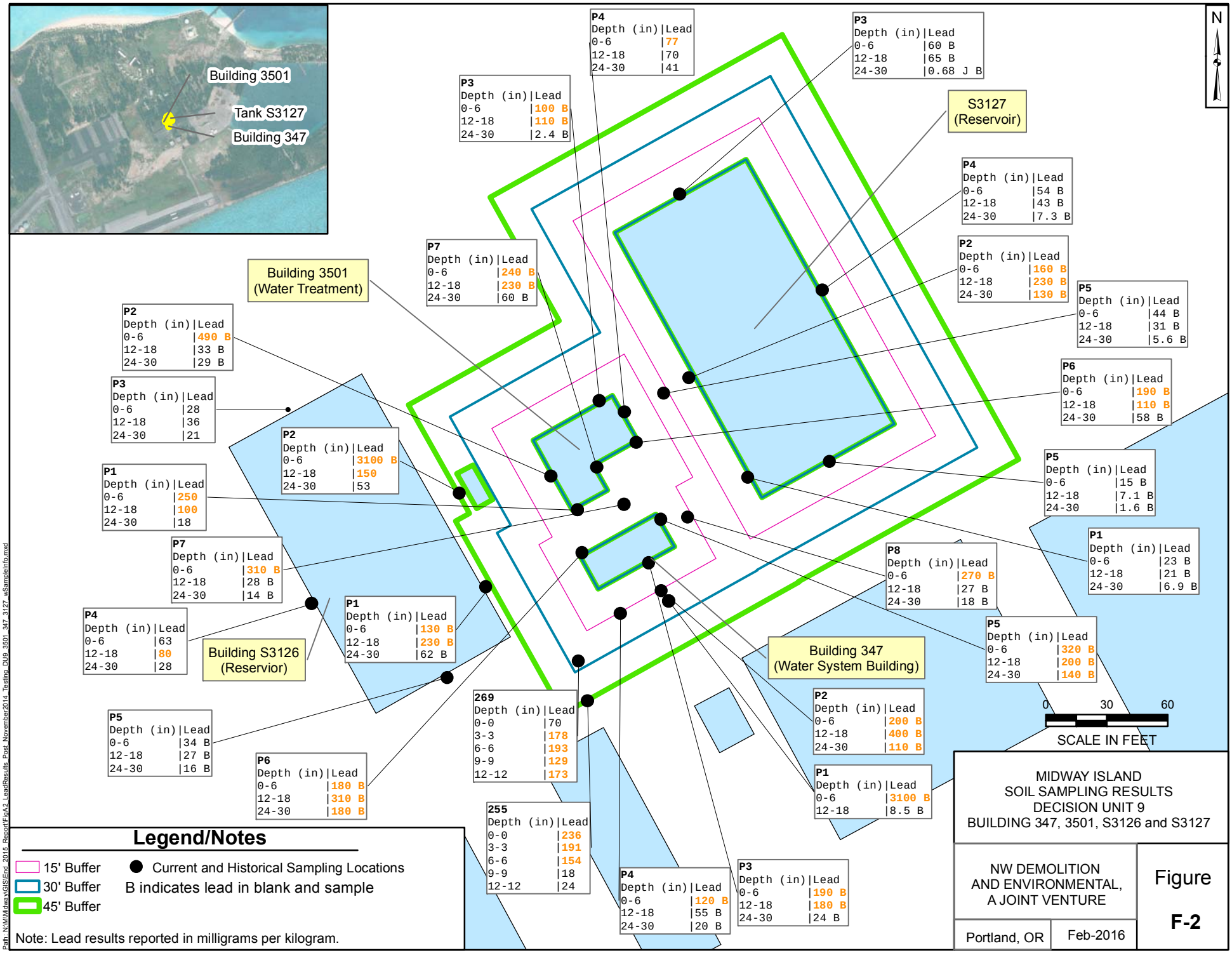
Portland, OR

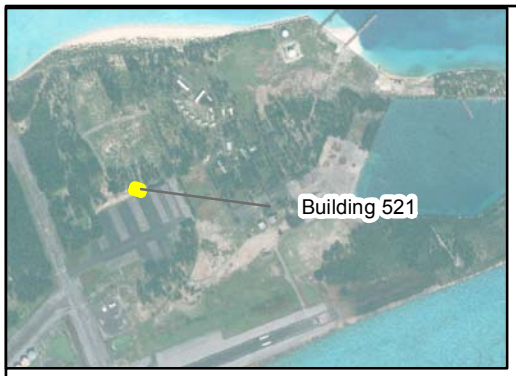
Feb-2016

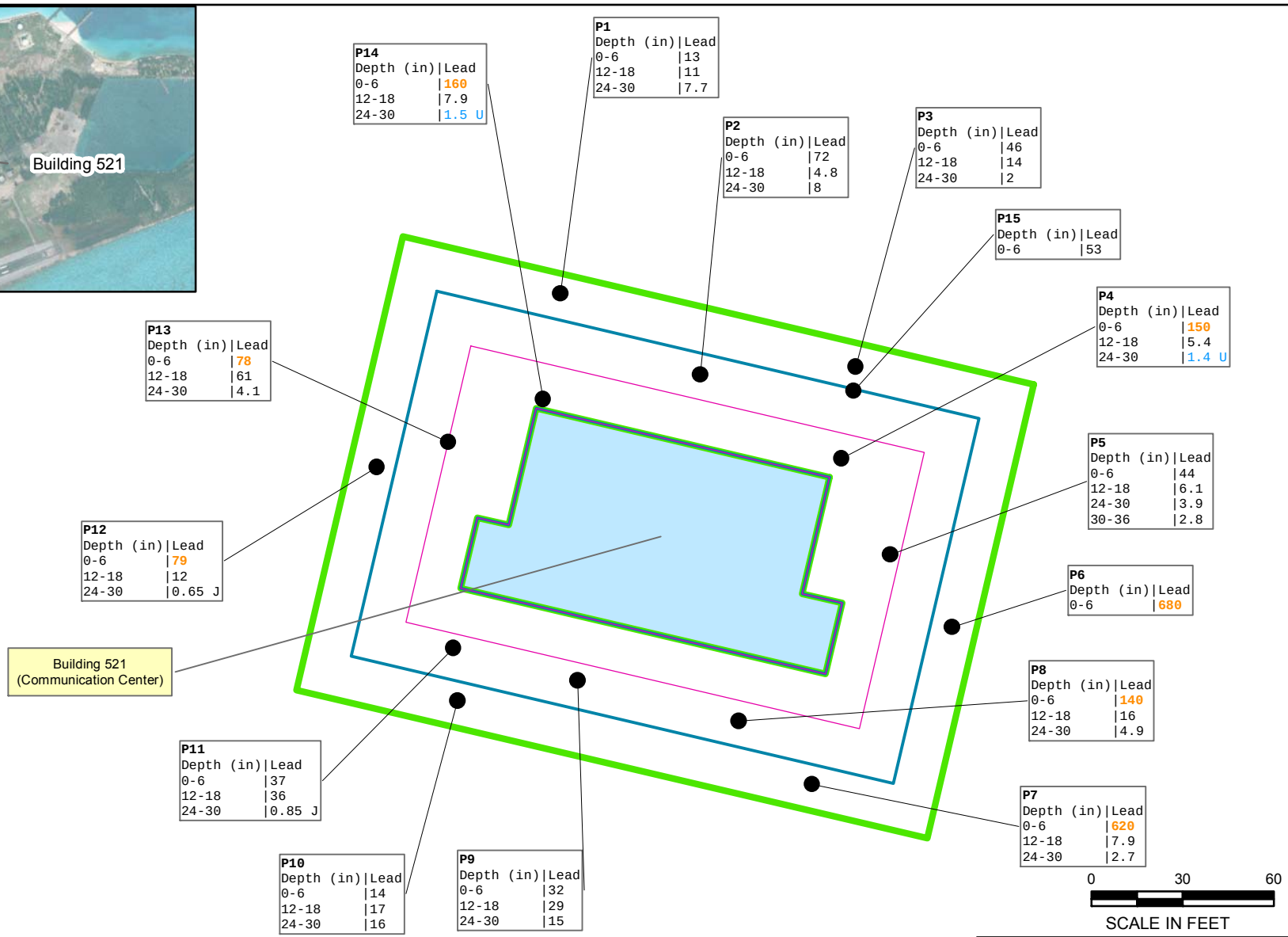
Figure

F-1

Path: N:\MMidway\GIS\End_2015_Report\FigA1_LeadResults_Pest_November2014_Testing_DU9_S361_Pest_wSampleInfo_v3.mxd


Building 3501
Tank S3127
Building 347
N
S3127 (Reservoir)
Building 3501 (Water Treatment)
Building S3126 (Reservior)
Building 347 (Water System Building)
P4 Depth (in) Lead 0-6 77 12-18 70 24-30 41
P3 Depth (in) Lead 0-6 60 B 12-18 65 B 24-30 0.68 J B
P3 Depth (in) Lead 0-6 100 B 12-18 110 B 24-30 2.4 B
P4 Depth (in) Lead 0-6 54 B 12-18 43 B 24-30 7.3 B
P7 Depth (in) Lead 0-6 240 B 12-18 230 B 24-30 60 B
P2 Depth (in) Lead 0-6 160 B 12-18 230 B 24-30 130 B
P5 Depth (in) Lead 0-6 44 B 12-18 31 B 24-30 5.6 B
P2 Depth (in) Lead 0-6 490 B 12-18 33 B 24-30 29 B
P6 Depth (in) Lead 0-6 190 B 12-18 110 B 24-30 58 B
P3 Depth (in) Lead 0-6 28 12-18 36 24-30 21
P2 Depth (in) Lead 0-6 3100 B 12-18 150 24-30 53
P5 Depth (in) Lead 0-6 15 B 12-18 7.1 B 24-30 1.6 B
P1 Depth (in) Lead 0-6 250 12-18 100 24-30 18
P1 Depth (in) Lead 0-6 23 B 12-18 21 B 24-30 6.9 B
P7 Depth (in) Lead 0-6 310 B 12-18 28 B 24-30 14 B
P8 Depth (in) Lead 0-6 270 B 12-18 27 B 24-30 18 B
P4 Depth (in) Lead 0-6 63 12-18 80 24-30 28
P1 Depth (in) Lead 0-6 130 B 12-18 230 B 24-30 62 B
P5 Depth (in) Lead 0-6 320 B 12-18 200 B 24-30 140 B
P2 Depth (in) Lead 0-6 200 B 12-18 400 B 24-30 110 B
P5 Depth (in) Lead 0-6 34 B 12-18 27 B 24-30 16 B
269 Depth (in) Lead 0-0 70 3-3 178 6-6 193 9-9 129 12-12 173
P6 Depth (in) Lead 0-6 180 B 12-18 310 B 24-30 180 B
P1 Depth (in) Lead 0-6 3100 B 12-18 8.5 B
255 Depth (in) Lead 0-0 236 3-3 191 6-6 154 9-9 18 12-12 24
P4 Depth (in) Lead 0-6 120 B 12-18 55 B 24-30 20 B
P3 Depth (in) Lead 0-6 190 B 12-18 180 B 24-30 24 B
0 30 60
SCALE IN FEET
Legend/Notes
15' Buffer
30' Buffer
45' Buffer
Current and Historical Sampling Locations
B indicates lead in blank and sample
Note: Lead results reported in milligrams per kilogram.
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 347, 3501, S3126 and S3127
NW DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE
Portland, OR
Feb-2016
Figure
F-2
Path: N:\MMidway\GIS\End_2015_Report\FigA2_LeadResults_Post_November2014_Testing_DU9_3501_347_3127_wSampleInfo.mxd





Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

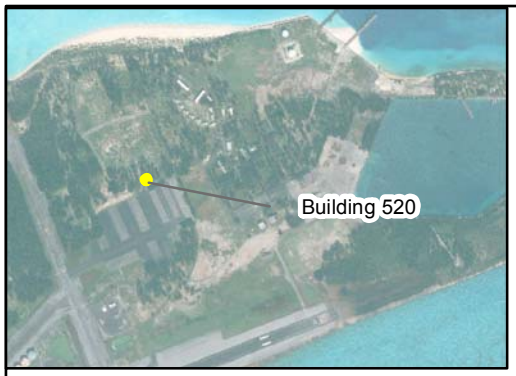
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 521

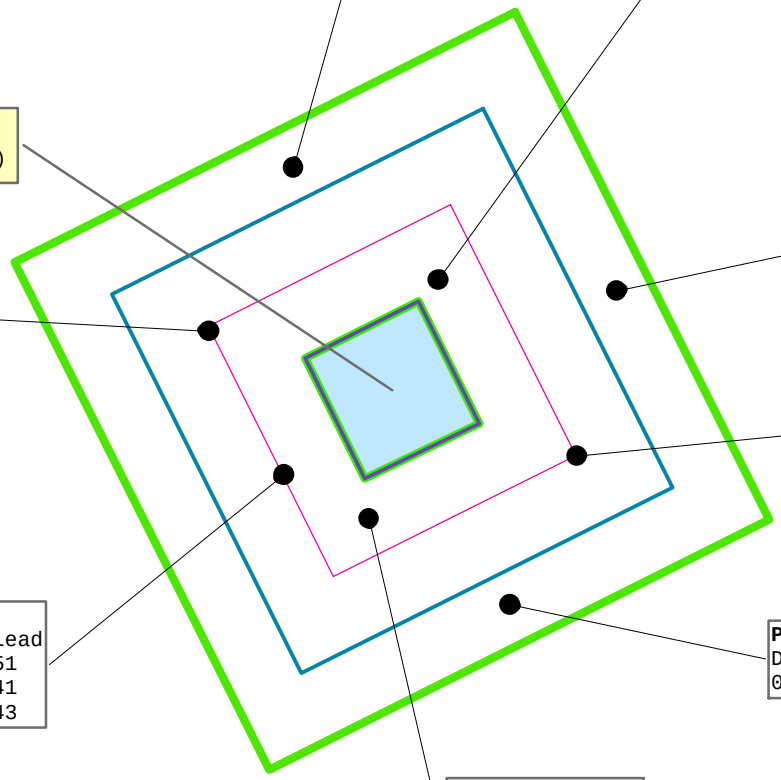
NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-3

Path: N:\MMidway\GIS\End_2015_Report\FigA3_LeadResults_Sept2015_Testing_DU9_521_wSampleInfo.mxd





P1

Depth (in)	Lead
0-6	17
12-18	21
24-30	15

P2

Depth (in)	Lead
0-6	670
12-18	850
24-30	70

P3

Depth (in)	Lead
0-6	320
12-18	720
24-30	170

P4

Depth (in)	Lead
0-6	200

P5

Depth (in)	Lead
0-6	270

P6

Depth (in)	Lead
0-6	78
12-18	63
24-30	76

P7

Depth (in)	Lead
0-6	51
12-18	41
24-30	43

P8

Depth (in)	Lead
0-6	43
12-18	41
24-30	5.7

N

0 20 40

SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 520

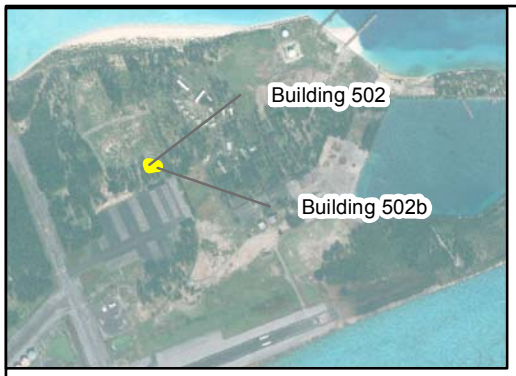
NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

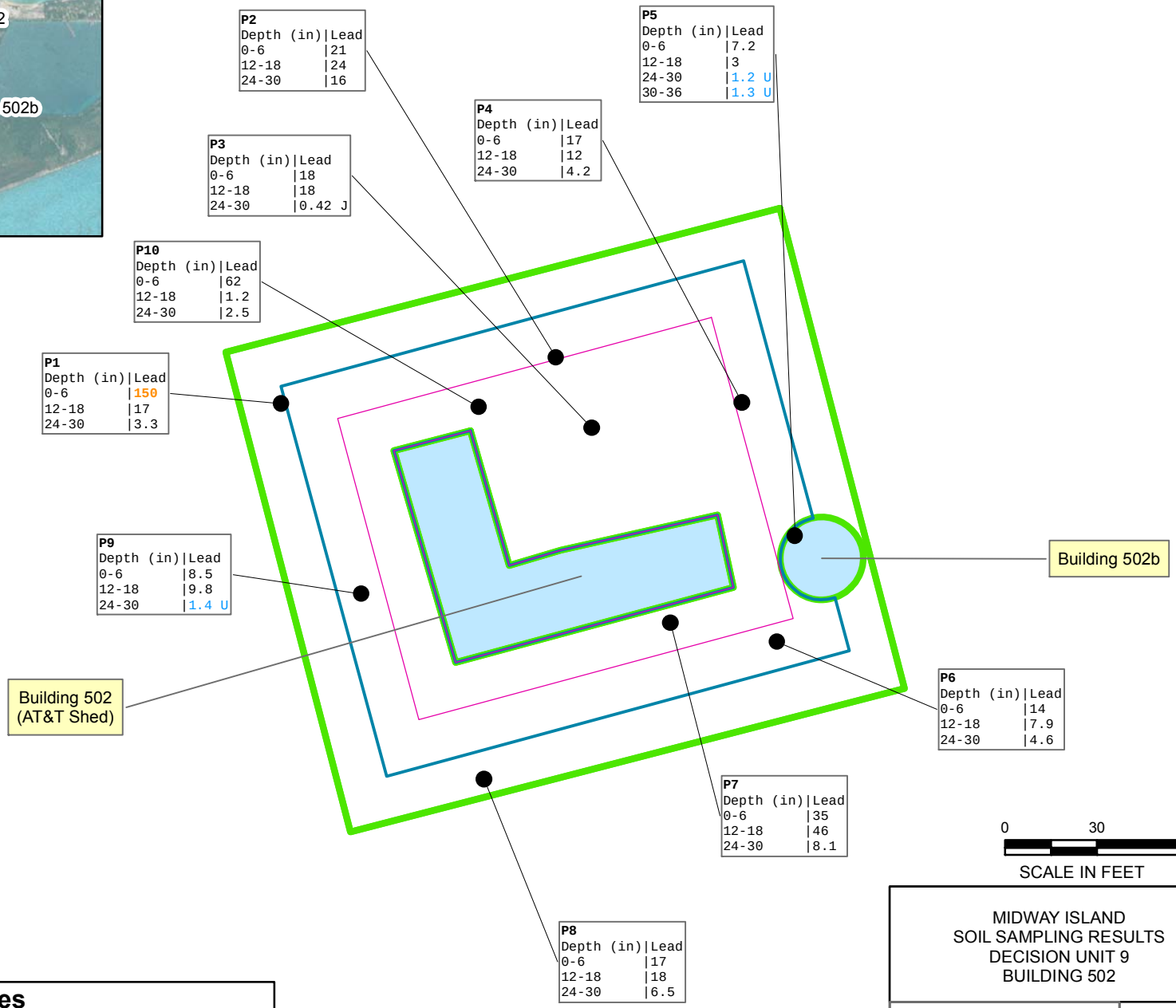
Portland, OR | Feb-2016

Figure

F-4

Path: N:\MMidway\GIS\End_2015_Report\FigA4_LeadResults_Sept2015_Testing_DU9_520_wSampleInfo.mxd





Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

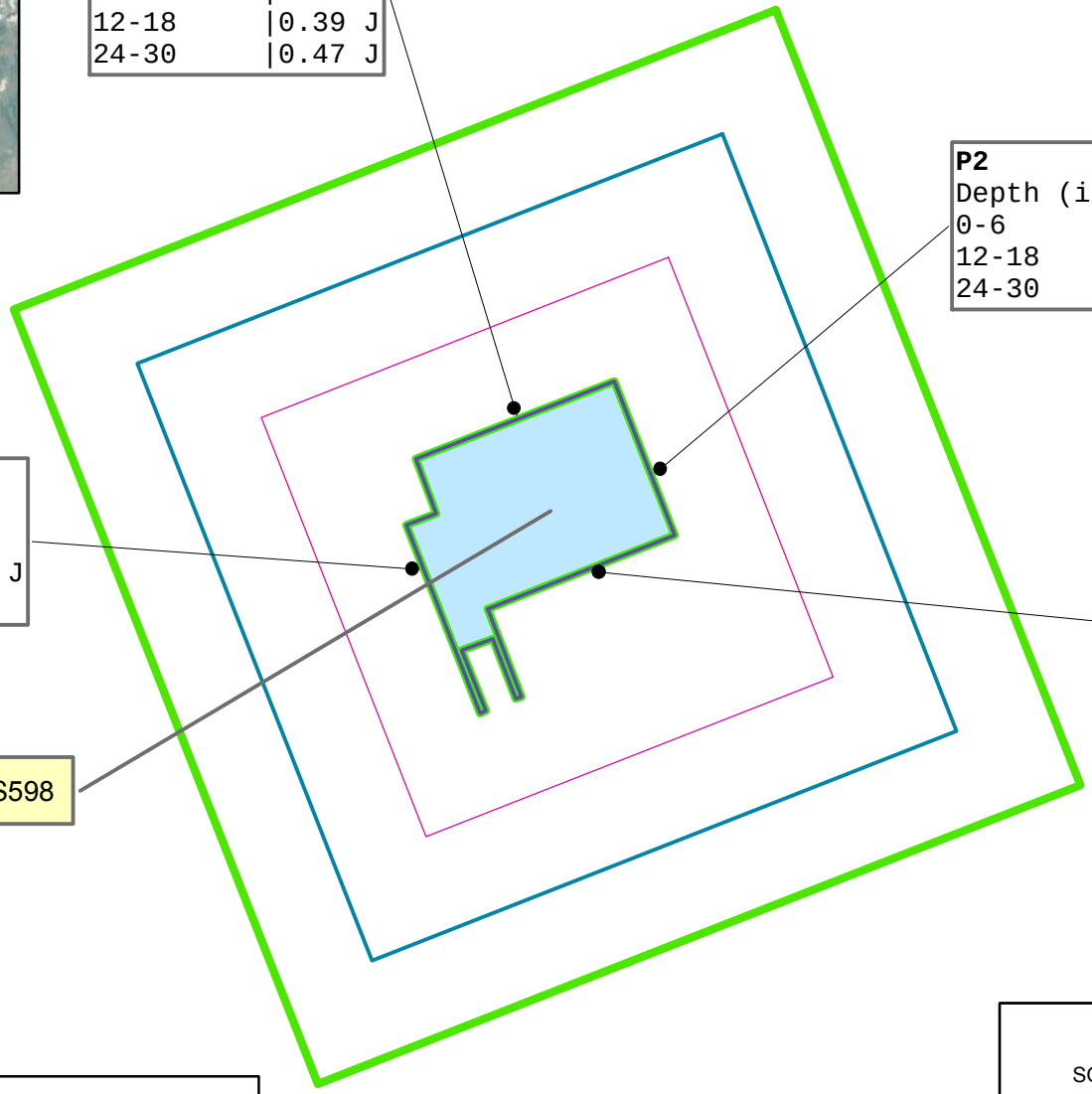
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 502

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-5

Path: N:\MMidway\GIS\End_2015_Report\FigA5_LeadResults_Sept2015_Testing_DU9_502_wSampleInfo.mxd



P1

Depth (in)	Lead
0-6	1.2 J
12-18	0.39 J
24-30	0.47 J

P2

Depth (in)	Lead
0-6	6.1
12-18	8.1
24-30	8.2

P3

Depth (in)	Lead
0-6	8.8
12-18	1.2 J
24-30	1.1 J

P4

Depth (in)	Lead
0-6	25
12-18	0.91 J
24-30	2.7

N

0 10 20

SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Sampling Locations
- Exisitng Building
- J indicates estimated amount

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING S598

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure

F-6

Path: N:\MMidway\GIS\End_2015_Report\FigA.6_LeadResults_September2015_Testing_DU9_Tank_wSampleInfo.mxd

N

P2

Depth (in)	Lead
0-6	24 B

Building S426
(Satellite TV)

Building 425
(Receiver Building)

P1

Depth (in)	Lead
0-6	15 B

P1

Depth (in)	Lead
0-6	50 B
12-18	45 B
24-30	0.41 J B

0 10 20
SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- B indicates lead in blank and sample
- J indicates estimated amount

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 425 and S426

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-7

Path: N:\MMidway\GIS\End_2015_Report\FigA7_LeadResults_Post_September2015_Testing_DU9_425_426_wSampleInfo.mxd

P5

Depth (in)	Lead
0-6	70
12-18	45
24-30	18

P4

Depth (in)	Lead
0-6	43
12-18	36
24-30	8.6

P1

Depth (in)	Lead
0-6	25
12-18	28
24-30	5.2

P6

Depth (in)	Lead
0-6	15
12-18	19
24-30	9.9

P3

Depth (in)	Lead
0-6	42
12-18	62
24-30	18

P2

Depth (in)	Lead
0-6	190
12-18	62
24-30	28

Building 5342
(Telephone South Bldg)

N

0 10 20 30
SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building

Note: Lead results reported in milligrams per kilogram.

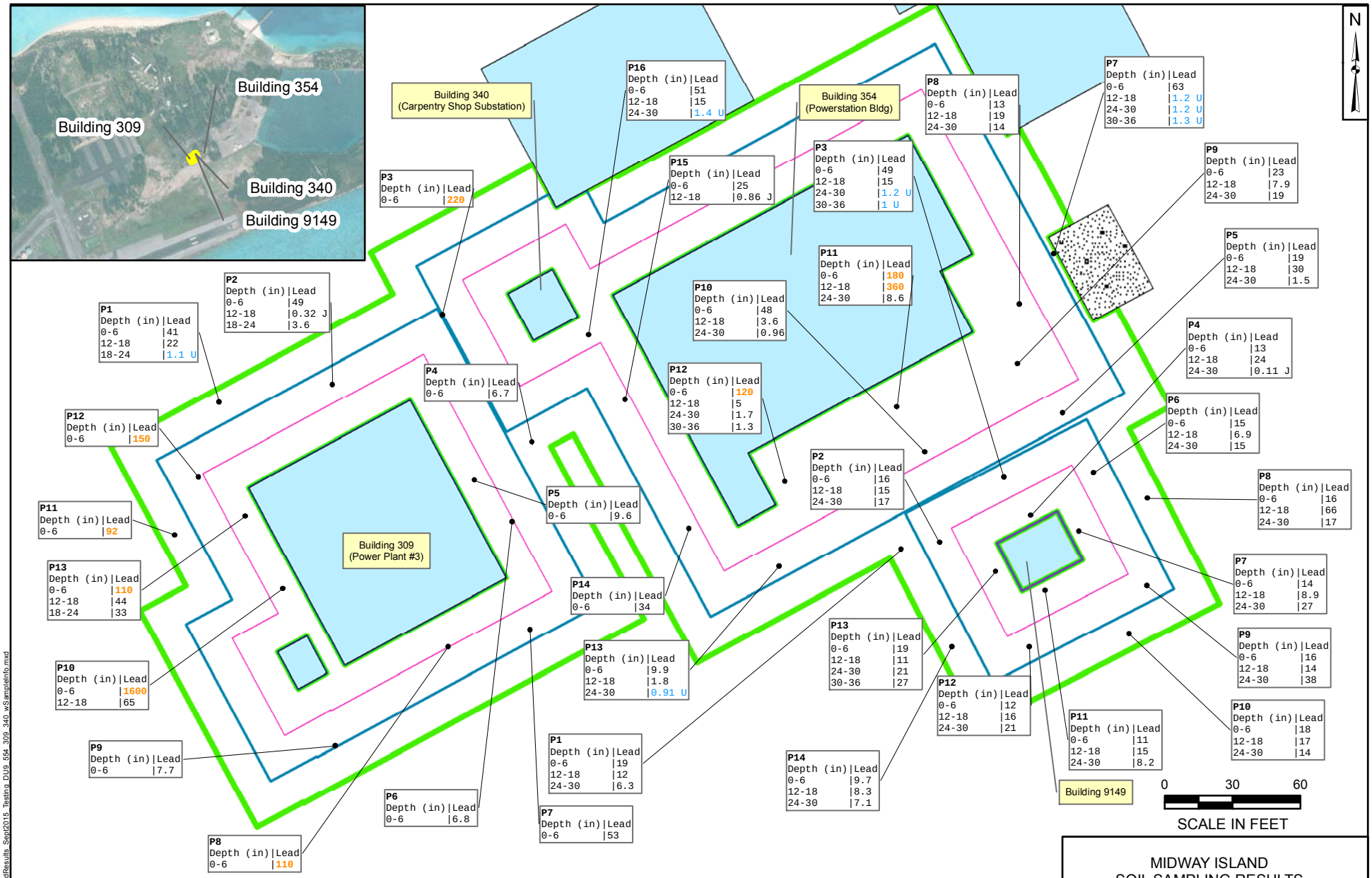
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 5342
(TELEPHONE SOUTH BLDG)

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-8

Path: N:\MMidway\GIS\End_2015_Report\FigA8_LeadResults_Post_September2015_Testing_DU9_5342_wSampleInfo.mxd



Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- Concrete Pad
- J indicates estimated amount
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDINGS 309, 340, 354 AND 9149

NW DEMOLITION AND ENVIRONMENTAL, A JOINT VENTURE

Portland, OR | Feb-2016

Figure F-9

Path: N:\MMidway\GIS\End_2015_Report\FigA9_LeadResults_Sept2015_Testing_DU9_554_309_340_wSampleInfo.mxd

N

P1

Depth (in)	Lead
0-6	18
12-18	1.3 U
24-30	1.4 U

P2

Depth (in)	Lead
0-6	37
12-18	26
24-30	4.9

P3

Depth (in)	Lead
0-6	100
12-18	170
24-30	130

P4

Depth (in)	Lead
0-6	62
12-18	39
24-30	64

P5

Depth (in)	Lead
0-6	69
12-18	18
24-30	49
30-36	56

P6

Depth (in)	Lead
0-6	26
12-18	23
24-30	0.14 J

P7

Depth (in)	Lead
0-6	22
12-18	1500
24-30	37

P8

Depth (in)	Lead
0-6	36
12-18	7.8
24-30	18

P9

Depth (in)	Lead
0-6	26
12-18	2.4
24-30	1.3 U

P10

Depth (in)	Lead
0-6	37
12-18	60
24-30	1.3 U

P11

Depth (in)	Lead
0-6	31
12-18	1.3 U
24-30	1.2 U

P12

Depth (in)	Lead
0-6	27
12-18	27
24-30	77
30-36	9.9

Building 3521
(FWS Office)

0 20 40
SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- J indicates estimated amount
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

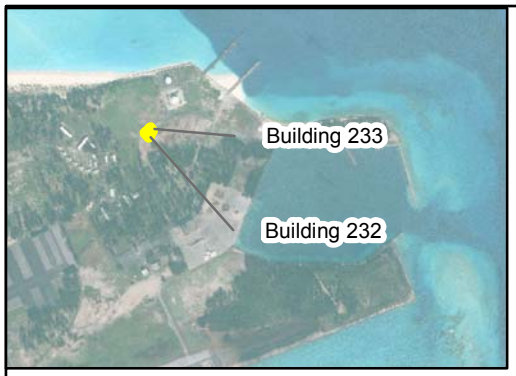
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 3521

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-10

Path: N:\MMidway\GIS\End_2015_Report\Fig\A.10_LeadResults_Sept2015_Testing_DU9_3521_wSampleInfo.mxd



N

P1

Depth (in)	Lead
0-6	11
12-18	2.8
24-30	1.3 J

P3

Depth (in)	Lead
0-6	19
12-18	6.3
24-30	4

Building 233
(Tin Shed Maintenance Shop)

P5

Depth (in)	Lead
0-6	22
12-18	9
24-30	9.4

P12

Depth (in)	Lead
0-6	23
12-18	20
24-30	10

P4

Depth (in)	Lead
0-6	13
12-18	1.1 J
24-30	15
30-36	21

Building 232
(Fuel Farm Storage)

P11

Depth (in)	Lead
0-6	5.4
12-18	0.9 J
24-30	5

P6

Depth (in)	Lead
0-6	23
12-18	1.4 U
24-30	1.3 U

P10

Depth (in)	Lead
0-6	16
12-18	0.41 J
24-30	2.7

P7

Depth (in)	Lead
0-6	14
12-18	25
24-30	1.2 U

0 20 40

SCALE IN FEET

P8

Depth (in)	Lead
0-6	31
12-18	1.9
24-30	1.2 U

P9

Depth (in)	Lead
0-6	22
12-18	180
24-30	0.37 J

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Concrete and Historical Sampling Locations
- Existing Building
- J indicates estimated amount
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDINGS 232 AND 233

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-11

Path: N:\MMidway\GIS\End_2015_Report\FigA11_LeadResults_Sept2015_Testing_DU9_232_233_wSamplelnfo.mxd

N

P2

Depth (in)	Lead
0-6	59
12-18	4.7
24-30	1.5

P1

Depth (in)	Lead
0-6	66

P3

Depth (in)	Lead
0-6	24
12-18	33
24-30	1.5
30-36	1.3 U

Building S225A
(Mogas Fueling Station)

P12

Depth (in)	Lead
0-6	200
12-18	82
24-30	18

P5

Depth (in)	Lead
0-6	12
12-18	4.5
24-30	1.3 U

P10

Depth (in)	Lead
0-6	63
12-18	16
24-30	40

P11

Depth (in)	Lead
0-6	19
12-18	8.9
24-30	13
30-36	14

P4

Depth (in)	Lead
0-6	80
12-18	83
24-30	1.6

P8

Depth (in)	Lead
0-6	71
12-18	16
24-30	26

P6

Depth (in)	Lead
0-6	21
12-18	17
24-30	20

Tank S269
(Mogas Tanks)

Building 2127
(POL Office)

0 5,700 11,400

SCALE IN FEET

P7

Depth (in)	Lead
0-6	18
12-18	46
24-30	62

P9

Depth (in)	Lead
0-6	66
12-18	210
24-30	54

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building

Note: Lead results reported in milligrams per kilogram.

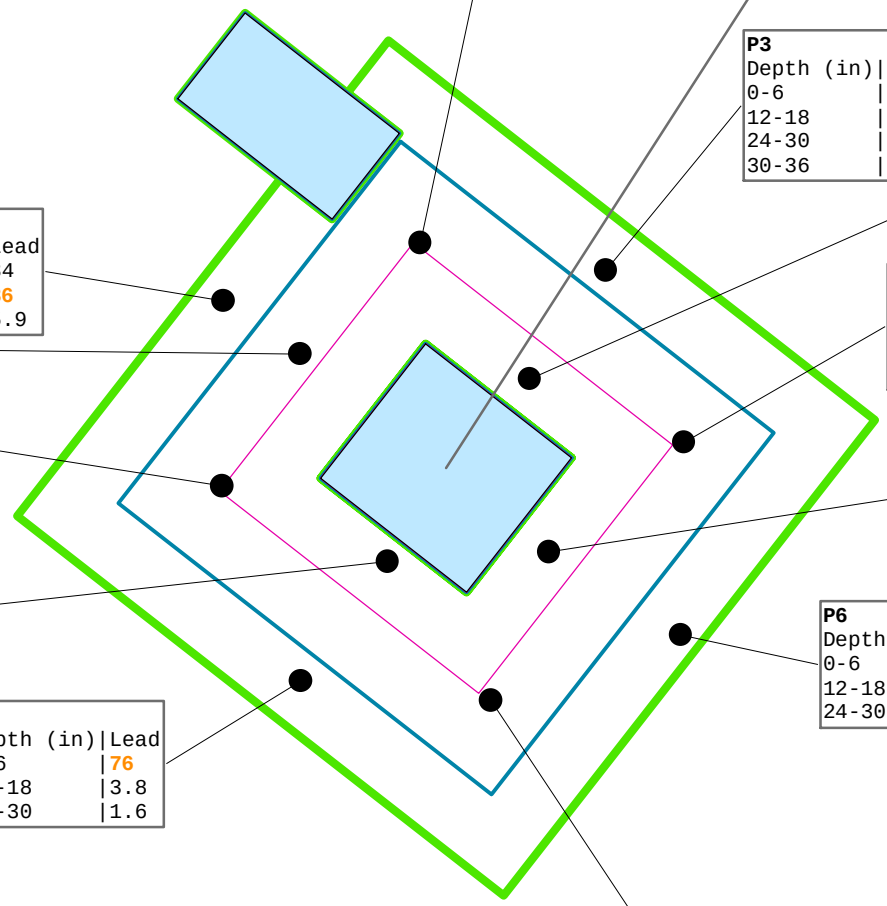
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING S269, S225A AND 2127

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-12

Path: N:\MMidway\GIS\End_2015_Report\Fig12_LeadResults_Sep2015_Testing_DU9_269_2127_2254_wSampleInfo.mxd



P1

Depth (in)	Lead
0-6	34
12-18	86
24-30	5.9

P2

Depth (in)	Lead
0-6	23
12-18	16
24-30	1.1 J

P3

Depth (in)	Lead
0-6	33
12-18	1.7
24-30	6.6
30-36	4.8

P4

Depth (in)	Lead
0-6	140
12-18	75
24-30	28

P5

Depth (in)	Lead
0-6	43
12-18	13
24-30	14

P6

Depth (in)	Lead
0-6	32
12-18	28
24-30	32

P7

Depth (in)	Lead
0-6	72
12-18	19
24-30	12
30-36	9.2

P8

Depth (in)	Lead
0-6	30
12-18	110
24-30	7.9

P9

Depth (in)	Lead
0-6	76
12-18	3.8
24-30	1.6

P10

Depth (in)	Lead
0-6	110
12-18	24
24-30	15

P11

Depth (in)	Lead
0-6	51
12-18	11
24-30	4

P12

Depth (in)	Lead
0-6	27
12-18	2.3
24-30	1.6
30-36	0.37 J

N

0 20 40

SCALE IN FEET

Legend/Notes

15' Buffer
30' Buffer
45' Buffer
Current And Historical Sampling Locations
Existing Building
J indicates estimated amount

Note: Lead results reported in milligrams per kilogram.

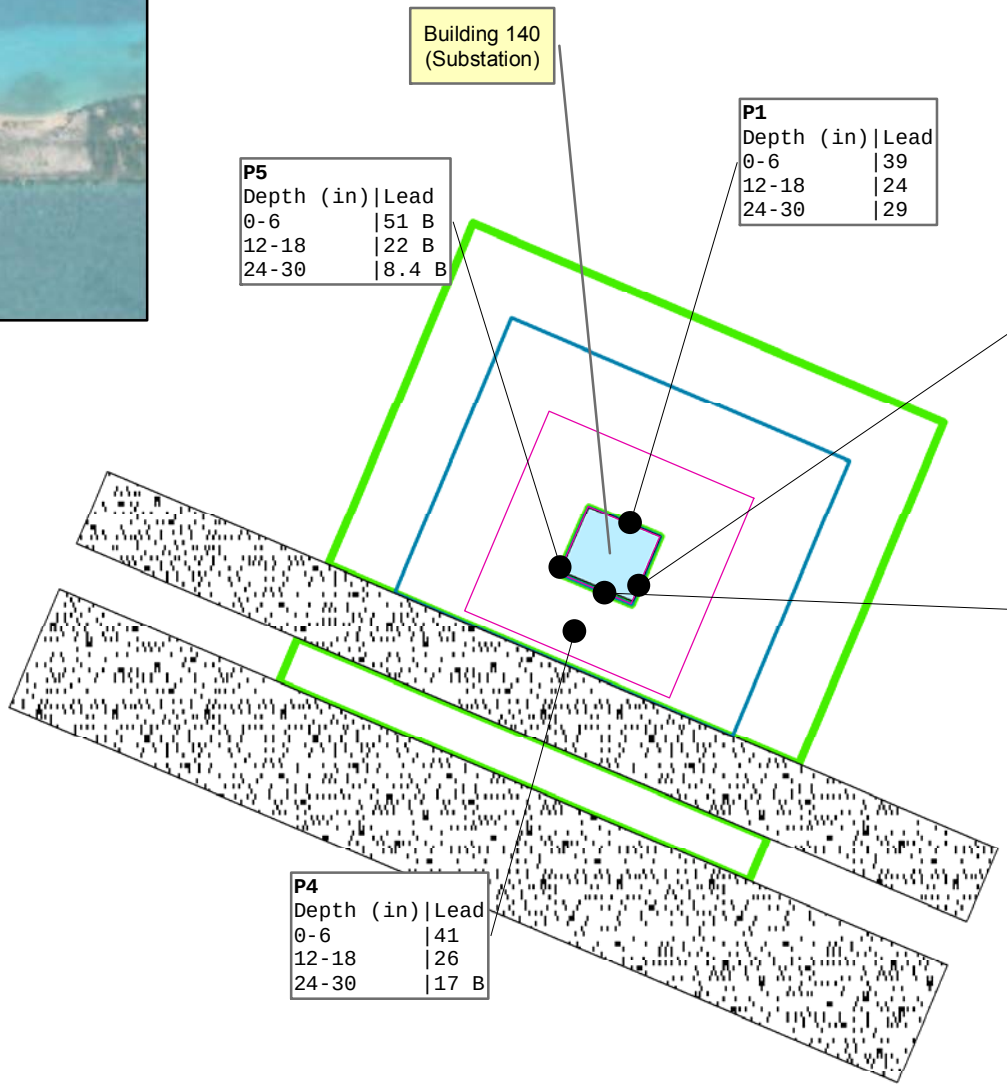
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING S464
(FUEL OIL PUMPHOUSE)

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-13

Path: N:\MMidway\GIS\End_2015_Report\Fig\A13_LeadResults_Sept2015_Testing_DU9_Pumphouse_wSampleInfo.mxd



Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Existing Building
- Concrete Pad
- Current and Historical Sampling Locations

B indicates lead in blank and sample

J indicates estimated amount

U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 140
(SUBSTATION)

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

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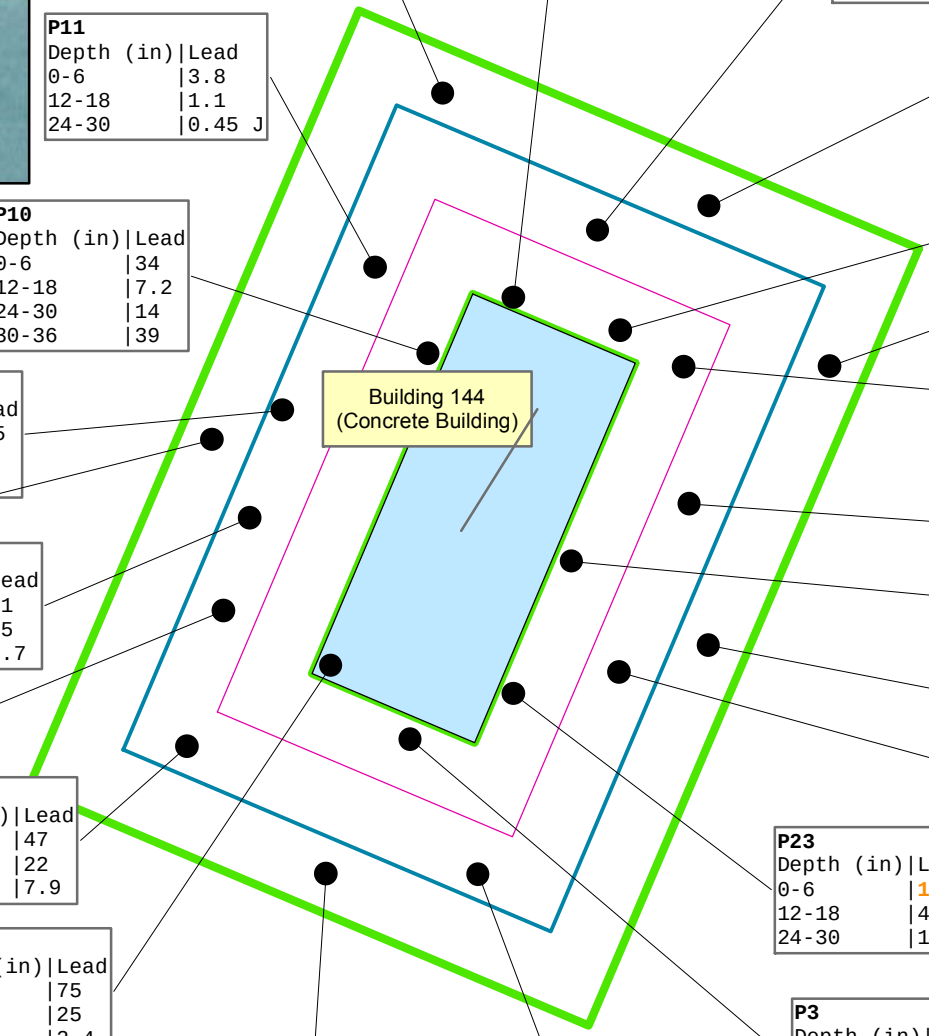
Figure

F-14

Path: N:\MMidway\GIS\End_2015_Report\Fig14_LeadResults_Post_November2014_Testing_DU9_140_wSampleInfo.mxd



P12

Depth (in)	Lead
0-6	54
12-18	37
24-30	2.2

P13

Depth (in)	Lead
0-6	120
12-18	46
24-30	49

P14

Depth (in)	Lead
0-6	110
12-18	4.4
24-30	0.32 J

P16

Depth (in)	Lead
0-6	110
12-18	4.8
24-30	0.51 J

P11

Depth (in)	Lead
0-6	3.8
12-18	1.1
24-30	0.45 J

P15

Depth (in)	Lead
0-6	560
12-18	110
24-30	8.1

P10

Depth (in)	Lead
0-6	34
12-18	7.2
24-30	14
30-36	39

P17

Depth (in)	Lead
0-6	120
12-18	5.3
24-30	100

P18

Depth (in)	Lead
0-6	410
12-18	83
24-30	3.6

P9

Depth (in)	Lead
0-6	8.5
12-18	16
24-30	11

P19

Depth (in)	Lead
0-6	410
12-18	1500
24-30	31

P8

Depth (in)	Lead
0-6	13
12-18	12
24-30	11

P7

Depth (in)	Lead
0-6	11
12-18	15
24-30	9.7

P20

Depth (in)	Lead
0-6	650
12-18	22
24-30	16

P21

Depth (in)	Lead
0-6	59
12-18	7.3
24-30	5.5
30-36	4

P6

Depth (in)	Lead
0-6	36
12-18	13
24-30	12

P5

Depth (in)	Lead
0-6	47
12-18	22
24-30	7.9

P22

Depth (in)	Lead
0-6	42
12-18	3
24-30	9.1

P23

Depth (in)	Lead
0-6	120
12-18	4
24-30	1.4

P4

Depth (in)	Lead
0-6	75
12-18	25
24-30	2.4

P3

Depth (in)	Lead
0-6	50
12-18	13
24-30	3.1

P2

Depth (in)	Lead
0-6	29
12-18	30
24-30	11

P1

Depth (in)	Lead
0-6	30
12-18	13
24-30	14

N

0 20 40

SCALE IN FEET

Legend/Notes

15' Buffer

30' Buffer

45' Buffer

Current and Historical Sampling Locations

J indicates estimated amount

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 144
(CONCRETE BUILDING)

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

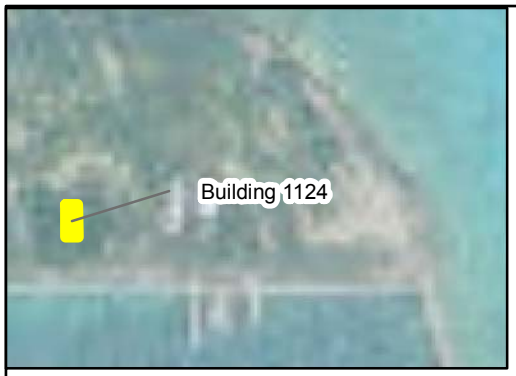
Portland, OR

Feb-2016

Figure

F-15

Path: N:\MMidway\GIS\End_2015_Report\FigA15_LeadResults_Post_November2014_Testing_DU9_144_wSampleInfo.mxd



N

16

Depth (in)	Lead
0-6	12
12-18	7.9

5

Depth (in)	Lead
0-6	9.7
12-18	2.5
24-28	2.4

17

Depth (in)	Lead
0-6	14
12-18	5
24-28	4.6

9

Depth (in)	Lead
0-6	3.6
12-18	5
24-28	4.7

4

Depth (in)	Lead
0-6	3.3
12-18	4.2

P3

Depth (in)	Lead
0-6	17 B
12-18	15 B
24-30	4.7 B

P4

Depth (in)	Lead
0-6	9.2 B
12-18	19 B
24-30	1.4 B

10

Depth (in)	Lead
0-6	14
12-18	17
24-28	2.4

15

Depth (in)	Lead
0-6	45
12-18	53
24-28	5.3

8

Depth (in)	Lead
0-6	30
12-18	18
24-28	12

3

Depth (in)	Lead
0-6	36
12-18	51
24-28	51

P5

Depth (in)	Lead
0-6	21 B
12-18	21 B
24-30	3.3
30-36	7.2

6

Depth (in)	Lead
0-6	13
12-18	39
24-28	6.8

P2

Depth (in)	Lead
0-6	30 B
12-18	30 B
24-30	27 B

14

Depth (in)	Lead
0-6	20
12-18	11
24-28	5.8

18

Depth (in)	Lead
0-6	2.3
12-18	2.3
24-28	5

P6

Depth (in)	Lead
0-6	28
12-18	20
24-30	8

2

Depth (in)	Lead
0-6	42
12-18	57
24-28	120
30-36	54

11

Depth (in)	Lead
0-6	42
12-18	3.1
24-28	2.6

13

Depth (in)	Lead
0-6	49
12-18	25
24-28	27

7

Depth (in)	Lead
0-6	40
12-18	2.4
24-28	5
30-36	4.8

1

Depth (in)	Lead
0-6	21
12-18	17
24-28	2.6

P1

Depth (in)	Lead
0-6	21 B
12-18	24 B
24-30	15 B

Building 1124
(Waste Storage Building)

0 20 40
SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- B indicates lead in blank and sample

Note: Lead results reported in milligrams per kilogram.

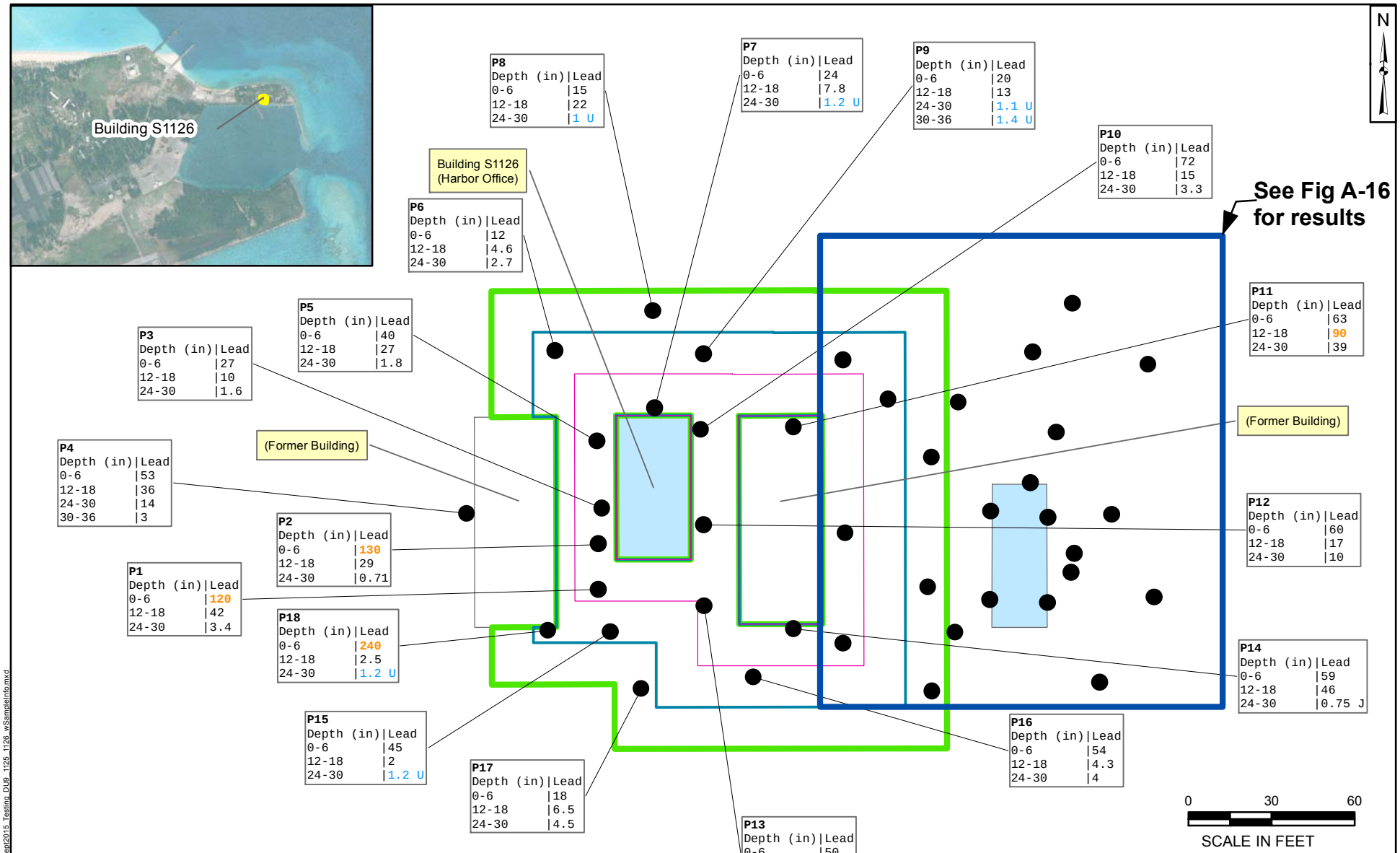
MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BUILDING 1124
(WASTE STORAGE BUILDING)

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-16

Path: N:\MMidway\GIS\End_2015_Report\Fig\A16_LeadResults_Post_November2014_Testing_DU9_1124_wSampleInfo.mxd



P8

Depth (in)	Lead
0-6	15
12-18	22
24-30	1 U

P7

Depth (in)	Lead
0-6	24
12-18	7.8
24-30	1.2 U

P9

Depth (in)	Lead
0-6	20
12-18	13
24-30	1.1 U
30-36	1.4 U

P10

Depth (in)	Lead
0-6	72
12-18	15
24-30	3.3

P6

Depth (in)	Lead
0-6	12
12-18	4.6
24-30	2.7

P5

Depth (in)	Lead
0-6	40
12-18	27
24-30	1.8

P3

Depth (in)	Lead
0-6	27
12-18	10
24-30	1.6

P11

Depth (in)	Lead
0-6	63
12-18	90
24-30	39

P4

Depth (in)	Lead
0-6	53
12-18	36
24-30	14
30-36	3

P2

Depth (in)	Lead
0-6	130
12-18	29
24-30	0.71

P12

Depth (in)	Lead
0-6	60
12-18	17
24-30	10

P1

Depth (in)	Lead
0-6	120
12-18	42
24-30	3.4

P18

Depth (in)	Lead
0-6	240
12-18	2.5
24-30	1.2 U

P14

Depth (in)	Lead
0-6	59
12-18	46
24-30	0.75 J

P15

Depth (in)	Lead
0-6	45
12-18	2
24-30	1.2 U

P16

Depth (in)	Lead
0-6	54
12-18	4.3
24-30	4

P17

Depth (in)	Lead
0-6	18
12-18	6.5
24-30	4.5

P13

Depth (in)	Lead
0-6	50
12-18	11
24-30	5.8

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Existing Building
- Former Building
- Current and Historical Sampling Locations
- J indicates estimated amount
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

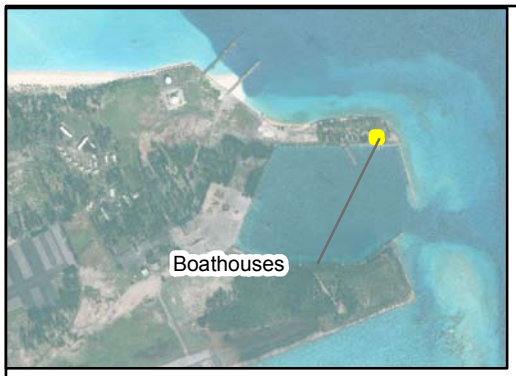
MIDWAY ISLAND
SOIL SAMPLING RESULTS
BUILDINGS S1126

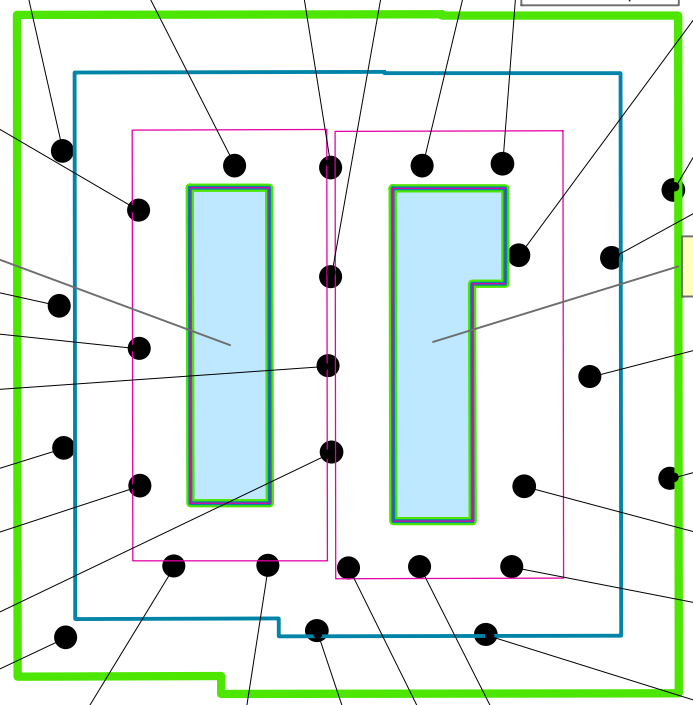
NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure
F-17

Path: N:\MMidway\GIS\End_2015_Report\FigA17_LeadResults_Sept2015_Testing_DUB_1125_1126_vSampleInfo.mxd





P1

Depth (in)	Lead
0-6	290
12-18	49
24-30	71

P2

Depth (in)	Lead
0-6	49
12-18	0.62 J
24-30	1.2

P3

Depth (in)	Lead
0-6	58
12-18	0.92 J
24-30	4.7

P4

Depth (in)	Lead
12-18	13
24-30	0.78 J

P5

Depth (in)	Lead
0-6	28
12-18	20
24-30	16

P6

Depth (in)	Lead
0-6	60
12-18	47
24-30	1.3 U

P7

Depth (in)	Lead
0-6	71
12-18	170
24-30	4.9

P8

Depth (in)	Lead
0-6	58
12-18	71
24-30	32

P9

Depth (in)	Lead
0-6	61
12-18	59
24-30	3.7

P10

Depth (in)	Lead
0-6	20
12-18	26
24-30	1.2 U
30-36	1.3 U

P11

Depth (in)	Lead
0-6	28
12-18	24
24-30	2

P12

Depth (in)	Lead
0-6	18
12-18	14
24-30	9.9

P13

Depth (in)	Lead
0-6	4.8
12-18	4.5
24-30	3.8

P14

Depth (in)	Lead
0-6	13
12-18	9.5
24-30	7.9

P15

Depth (in)	Lead
0-6	10
12-18	16
24-30	17

P16

Depth (in)	Lead
0-6	20
12-18	25

P17

Depth (in)	Lead
0-6	77
12-18	130

P18

Depth (in)	Lead
0-6	25
12-18	25
24-30	67

P19

Depth (in)	Lead
0-6	54
12-18	55
24-30	5.2

P20

Depth (in)	Lead
0-6	21
12-18	22
24-30	5.1

P21

Depth (in)	Lead
0-6	28
12-18	23
24-30	10

P22

Depth (in)	Lead
0-6	28
12-18	26
24-30	9.1
30-36	7

P23

Depth (in)	Lead
0-6	27
12-18	21
24-30	24

P24

Depth (in)	Lead
0-6	24
12-18	19
24-30	23
30-36	18

P25

Depth (in)	Lead
0-6	20
12-18	15
24-30	12

P26

Depth (in)	Lead
0-6	39
12-18	1100
24-30	44

P27

Depth (in)	Lead
0-6	38
12-18	58
24-30	12

N

0 30 60

SCALE IN FEET

Legend/Notes

- 15' Buffer
- 30' Buffer
- 45' Buffer
- Current and Historical Sampling Locations
- Existing Building
- J indicates estimated amount
- U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
BOAT HOUSES

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

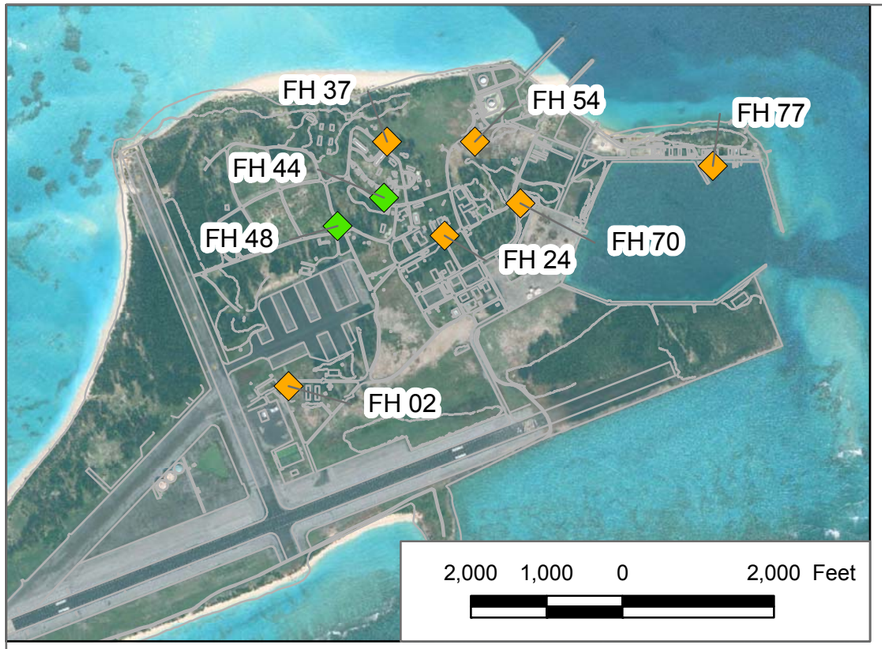
Portland, OR

Feb-2016

Figure

F-18

Path: N:\MMidway\GIS\End_2015_Report\Fig\A.18_LeadResults_Sept2015_Testing_DU9_Boathouse_wSampleInfo.mxd



N

FH 02

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	110	180	180 B
12-18	89	110 B	84 B
24-30	5.7	21 B	3.6 B

FH 24

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	73	160	180
12-18	96	86	110
24-30	22	32	41

FH 37

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	190	160	200
12-18	390	140	130
24-30	110	280	170

FH 44

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	11	11	15
12-18	18	11	6.6
24-30	27	2	2.1
30-36		1.9	

FH 48

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	18	16	18
12-18	18	21	16
24-30	38	24	15

FH 54

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	67	46	130
12-18	70	70	160
24-30	35	29	40

FH 70

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	110	250	170
12-18	110	48	180
24-30	130	34	53

FH 77

	P1	P2	P3
Depth (in)	Lead	Lead	Lead
0-6	110	62	97
12-18	350	27	120
24-30		36	130

0 1 2 4 Feet

SCALE IN FEET

Legend/Notes

Fire Hydrants Events

- <75
- 75 - 750
- >750

● Current and Historical Sampling Locations

B indicates Lead in Blank and Sample

J indicates estimated amount

U indicates non-detected at detection limit

Note: Lead results reported in milligrams per kilogram.

MIDWAY ISLAND
SOIL SAMPLING RESULTS
DECISION UNIT 9
FIRE HYDRANTS

NW DEMOLITION
AND ENVIRONMENTAL,
A JOINT VENTURE

Portland, OR | Feb-2016

Figure

F-19

N:\MMidway\GIS\End_2015_Report\FigA19_LeadResults_FireHydrants_2015.mxd; JOBryan; 3/18/2016

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
140 Building (Figure F14)				
140-P1 0-6"		10/16/2014	39	
140-P1 12-18"		10/16/2014	24	
140-P1 24-30"		10/16/2014	29	
140-P2 0-6"		10/16/2014	37	
140-P2 12-18"		10/16/2014	62	
140-P2 24-30"		10/16/2014	3.1	
140-P3 0-6"		10/17/2014	26	
140-P3 12-18"		10/17/2014	0.18	J
140-P3 24-30"		10/17/2014	1.2	U
140-P4 0-6"		10/17/2014	41	
140-P4 12-18"		10/17/2014	26	
140-P4 24-30"		10/17/2014	17	B
140-P5 0-6"		10/17/2014	51	B
140-P5 12-18"		10/17/2014	22	B
140-P5 24-30"		10/17/2014	8.4	B
144 Building (Figure F15)				
144 P1 (0-6)		03/26/2014	30	
144 P1 (12-18)		03/26/2014	13	
144 P1 (24-30)		03/26/2014	14	
144 P2 (0-6)		03/26/2014	29	
144 P2 (12-18)		03/26/2014	30	
144 P2 (24-30)		03/26/2014	11	
144 P3 (0-6)		03/26/2014	50	
144 P3 (12-18)		03/26/2014	13	
144 P3 (24-30)		03/26/2014	3.1	
144 P4 (0-6)		03/26/2014	75	
144 P4 (12-18)		03/26/2014	25	
144 P4 (24-30)		03/26/2014	2.4	
144 P5 (0-6)		03/26/2014	47	
144 P5 (12-18)		03/26/2014	22	
144 P5 (24-30)		03/26/2014	7.9	
144 P6 (0-6)		03/26/2014	36	
144 P6 (12-18)		03/26/2014	13	
144 P6 (24-30)		03/26/2014	12	
144 P7 (0-6)		03/26/2014	11	
144 P7 (12-18)		03/26/2014	15	
144 P7 (24-30)		03/26/2014	9.7	
144 P8 (0-6)		03/26/2014	13	
144 P8 (12-18)		03/26/2014	12	
144 P8 (24-30)		03/26/2014	11	
144 P9 (0-6)		03/26/2014	8.5	
144 P9 (12-18)		03/26/2014	16	
144 P9 (24-30)		03/26/2014	11	
144 P10 (0-6)		03/26/2014	34	
144 P10 (12-18)		03/26/2014	7.2	
144 P10 (24-30)		03/26/2014	14	
144 P10 (30-36)		03/26/2014	39	
144 P11 (0-6)		03/26/2014	3.8	
144 P11 (12-18)		03/26/2014	1.1	
144 P11 (24-30)		03/26/2014	0.45	J
144 P12 (0-6)		03/26/2014	54	
144 P12 (12-18)		03/26/2014	37	
144 P12 (24-30)		03/26/2014	2.2	
144 P13 (0-6)		03/26/2014	120	
144 P13 (12-18)		03/26/2014	46	
144 P13 (24-30)		03/26/2014	49	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
144 P14 (0-6)		03/26/2014	110	
144 P14 (12-18)		03/26/2014	4.4	
144 P14 (24-30)		03/26/2014	0.32	J
144 P15 (0-6)		03/26/2014	560	
144 P15 (12-18)		03/26/2014	110	
144 P15 (24-30)		03/26/2014	8.1	
144 P16 (0-6)		03/26/2014	110	
144 P16 (12-18)		03/26/2014	4.8	
144 P16 (24-30)		03/26/2014	0.51	J
144 P17 (0-6)		03/26/2014	120	
144 P17 (12-18)		03/26/2014	5.3	
144 P17 (24-30)		03/26/2014	100	
144 P18 (0-6)		03/26/2014	410	
144 P18 (12-18)		03/26/2014	83	
144 P18 (24-30)		03/26/2014	3.6	
144 P19 (0-6)		03/26/2014	410	
144 P19 (12-18)		03/26/2014	1,500	
144 P19 (24-30)		03/26/2014	31	
144 P20 (0-6)		03/26/2014	650	
144 P20 (12-18)		03/26/2014	22	
144 P20 (24-30)		03/26/2014	16	
144 P21 (0-6)		03/26/2014	59	
144 P21 (12-18)		03/26/2014	7.3	
144 P21 (24-30)		03/26/2014	5.5	
144 P21 (30-36)		03/26/2014	4.0	
144 P22 (0-6)		03/27/2014	42	
144 P22 (12-18)		03/27/2014	3.0	
144 P22 (24-30)		03/27/2014	9.1	
144 P23 (0-6)		03/27/2014	120	
144 P23 (12-18)		03/27/2014	4.0	
144 P23 (24-30)		03/27/2014	1.4	
233 Building (Figure F11)				
233 P1 (0-6)		12/11/2012	11	
233 P1 (12-18)		12/11/2012	2.8	
233 P1 (24-30)		12/11/2012	1.3	J
233 P3 (0-6)		12/11/2012	19	
233 P3 (12-18)		12/11/2012	6.3	
233 P3 (24-30)		12/11/2012	4.0	
233 P4 (0-6)		12/11/2012	13	
233 P4 (12-18)		12/11/2012	1.1	J
233 P4 (24-30)		12/11/2012	15	
233 P4 (30-36)		12/11/2012	21	
233 P5 (0-6)		12/11/2012	22	
233 P5 (12-18)		12/11/2012	9.0	
233 P5 (24-30)		12/11/2012	9.4	
233 P6 (0-6)		12/11/2012	23	
233 P6 (12-18)		12/11/2012	1.4	U
233 P6 (24-30)		12/11/2012	1.3	U
233 P7 (0-6)		12/11/2012	14	
233 P7 (12-18)		12/11/2012	25	
233 P7 (24-30)		12/11/2012	1.2	U
233 P8 (0-6)		12/11/2012	31	
233 P8 (12-18)		12/11/2012	1.9	
233 P8 (24-30)		12/11/2012	1.2	U
233 P9 (0-6)		12/11/2012	22	
233 P9 (12-18)		12/11/2012	180	
233 P9 (24-30)		12/11/2012	0.37	J

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
233 P10 (0-6)		12/11/2012	16	
233 P10 (12-18)		12/11/2012	0.41	J
233 P10 (24-30)		12/11/2012	2.7	
233 P11 (0-6)		12/11/2012	5.4	
233 P11 (12-18)		12/11/2012	0.9	J
233 P11 (24-30)		12/11/2012	5.0	
233 P12 (0-6)		12/11/2012	23	
233 P12 (12-18)		12/11/2012	20	
233 P12 (24-30)		12/11/2012	10	
309 Building (Figure F9)				
309 P1 (0-6)		12/13/2012	41	
309 P1 (12-18)		12/13/2012	22	
309 P1 (18-24)		12/13/2012	1.1	U
309 P2 (0-6)		12/13/2012	49	
309 P2 (12-18)		12/13/2012	0.32	J
309 P2 (18-24)		12/13/2012	3.6	
309 P3 (0-6)		12/13/2012	220	
309 P4 (0-6)		12/13/2012	6.7	
309 P5 (0-6)		12/13/2012	9.6	
309 P6 (0-6)		12/13/2012	6.8	
309 P7 (0-6)		12/13/2012	53	
309 P8 (0-6)		12/13/2012	110	
309 P9 (0-6)		12/13/2012	7.7	
309 P10 (0-6)		12/13/2012	1,600	
309 P10 (12-18)		12/13/2012	65	
309 P11 (0-6)		12/13/2012	92	
309 P12 (0-6)		12/13/2012	150	
309 P13 (0-6)		12/13/2012	110	
309 P13 (12-18)		12/13/2012	44	
309 P13 (18-24)	Lab report & COC use Sample ID: 309 P3 (18-24)	12/13/2012	33	
347 Building (Figure F2)				
347-P1 0-6"		10/18/2014	3,100	B
347-P1 12-18"		10/18/2014	8.5	B
347-P2 0-6"		10/31/2015	200	B
347-P2 12-18"		10/31/2015	400	B
347-P2 24-30"		10/31/2015	110	B
347-P3 0-6"		10/18/2014	190	B
347-P3 12-18"		10/18/2014	180	B
347-P3 24-30"		10/18/2014	24	B
347-P4 0-6"		10/31/2015	120	B
347-P4 12-18"		10/31/2015	55	B
347-P4 24-30"		10/31/2015	20	B
347-P5 0-6"		10/31/2015	320	B
347-P5 12-18"		10/31/2015	200	B
347-P5 24-30"		10/31/2015	140	B
347-P6 0-6"		10/18/2014	180	B
347-P6 12-18"		10/18/2014	310	B
347-P6 24-30"		10/18/2014	180	B
347-P7 0-6"		10/18/2014	310	B
347-P7 12-18"		10/18/2014	28	B
347-P7 24-30"		10/18/2014	14	B
347-P8 0-6"		10/31/2015	270	B
347-P8 12-18"		10/31/2015	27	B
347-P8 24-30"		10/31/2015	18	B
354 Building (Figure F9)				
554 P7 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	63	
554 P7 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	1.2	U

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
554 P7 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	1.0	U
554 P7 (30-36)	Samples labeled 554. Should have been 354	12/12/2012	1.3	U
554 P8 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	13	
554 P8 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	19	
554 P8 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	14	
554 P9 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	23	
554 P9 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	7.9	
554 P9 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	19	
554 P10 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	48	
554 P10 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	3.6	
554 P10 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	0.96	
554 P11 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	180	
554 P11 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	360	
554 P11 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	8.6	
554 P12 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	120	
554 P12 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	5.0	
554 P12 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	1.7	
554 P12 (30-36)	Samples labeled 554. Should have been 354	12/12/2012	1.3	
554 P13 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	9.9	
554 P13 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	1.8	
554 P13 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	0.91	U
554 P14 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	34	
554 P15 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	25	
554 P15 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	0.86	J
554 P16 (0-6)	Samples labeled 554. Should have been 354	12/12/2012	51	
554 P16 (12-18)	Samples labeled 554. Should have been 354	12/12/2012	15	
554 P16 (24-30)	Samples labeled 554. Should have been 354	12/12/2012	1.4	U
425 Building (Figure F7)				
425-P1 0-6"		10/18/2014	15	B
425-P2 0-6"		10/18/2014	24	B
426 Building (Figure F7)				
426-P1 0-6"		10/18/2014	50	B
426-P1 12-18"		10/18/2014	45	B
426-P1 24-30"		10/18/2014	0.41	J B
S464 (Figure F13)				
Pump House P1 (0-6)	Building is considered S464	12/10/2012	34	
Pump House P1 (12-18)	Building is considered S464	12/10/2012	86	
Pump House P1 (24-30)	Building is considered S464	12/10/2012	5.9	
Pump House P2 (0-6)	Building is considered S464	12/10/2012	23	
Pump House P2 (12-18)	Building is considered S464	12/10/2012	16	
Pump House P2 (24-30)	Building is considered S464	12/10/2012	1.1	J
Pump House P3 (0-6)	Building is considered S464	12/10/2012	33	
Pump House P3 (12-18)	Building is considered S464	12/10/2012	1.7	
Pump House P3 (24-30)	Building is considered S464	12/10/2012	6.6	
Pump House P3 (30-36)	Building is considered S464	12/10/2012	4.8	
Pump House P4 (0-6)	Building is considered S464	12/10/2012	140	
Pump House P4 (12-18)	Building is considered S464	12/10/2012	75	
Pump House P4 (24-30)	Building is considered S464	12/10/2012	28	
Pump House P5 (0-6)	Building is considered S464	12/10/2012	43	
Pump House P5 (12-18)	Building is considered S464	12/10/2012	13	
Pump House P5 (24-30)	Building is considered S464	12/10/2012	14	
Pump House P6 (0-6)	Building is considered S464	12/10/2012	32	
Pump House P6 (12-18)	Building is considered S464	12/10/2012	28	
Pump House P6 (24-30)	Building is considered S464	12/10/2012	32	
Pump House P7 (0-6)	Building is considered S464	12/10/2012	72	
Pump House P7 (12-18)	Building is considered S464	12/10/2012	19	
Pump House P7 (24-30)	Building is considered S464	12/10/2012	12	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
Pump House P7 (30-36)	Building is considered S464	12/10/2012	9.2	
Pump House P8 (0-6)	Building is considered S464	12/10/2012	30	
Pump House P8 (12-18)	Building is considered S464	12/10/2012	110	
Pump House P8 (24-30)	Building is considered S464	12/10/2012	7.9	
Pump House P9 (0-6)	Building is considered S464	12/10/2012	76	
Pump House P9 (12-18)	Building is considered S464	12/10/2012	3.8	
Pump House P9 (24-30)	Building is considered S464	12/10/2012	1.6	
Pump House P10 (0-6)	Building is considered S464	12/10/2012	110	
Pump House P10 (12-18)	Building is considered S464	12/10/2012	24	
Pump House P10 (24-30)	Building is considered S464	12/10/2012	15	
Pump House P11 (0-6)	Building is considered S464	12/10/2012	51	
Pump House P11 (12-18)	Building is considered S464	12/10/2012	11	
Pump House P11 (24-30)	Building is considered S464	12/10/2012	4.0	
Pump House P12 (0-6)	Building is considered S464	12/10/2012	27	
Pump House P12 (12-18)	Building is considered S464	12/10/2012	2.3	
Pump House P12 (24-30)	Building is considered S464	12/10/2012	1.6	
Pump House P12 (30-36)	Building is considered S464	12/10/2012	0.37	J
502 Building (Figure F5)				
502 P1 (0-6)		12/09/2012	150	
502 P1 (12-18)		12/09/2012	17	
502 P1 (24-30)		12/09/2012	3.3	
502 P2 (0-6)		12/09/2012	21	
502 P2 (12-18)		12/09/2012	24	
502 P2 (24-30)		12/09/2012	16	
502 P3 (0-6)		12/09/2012	18	
502 P3 (12-18)		12/09/2012	18	
502 P3 (24-30)		12/09/2012	0.42	J
502 P4 (0-6)		12/09/2012	17	
502 P4 (12-18)		12/09/2012	12	
502 P4 (24-30)		12/09/2012	4.2	
502 P5 (0-6)		12/09/2012	7.2	
502 P5 (12-18)		12/09/2012	3.0	
502 P5 (24-30)		12/09/2012	1.2	U
502 P5 (30-36)		12/09/2012	1.3	U
502 P6 (0-6)		12/09/2012	14	
502 P6 (12-18)		12/09/2012	7.9	
502 P6 (24-30)		12/09/2012	4.6	
502 P7 (0-6)		12/09/2012	35	
502 P7 (12-18)		12/09/2012	46	
502 P7 (24-30)		12/09/2012	8.1	
502 P8 (0-6)		12/09/2012	17	
502 P8 (12-18)		12/09/2012	18	
502 P8 (24-30)		12/09/2012	6.5	
502 P9 (0-6)		12/09/2012	8.5	
502 P9 (12-18)		12/09/2012	9.8	
502 P9 (24-30)		12/09/2012	1.4	U
502 P10 (0-6)		12/09/2012	62	
502 P10 (12-18)		12/09/2012	1.2	
502 P10 (24-30)		12/09/2012	2.5	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
520 Building (Figure F4)				
520 P1 (0-6)		12/08/2012	17	
520 P1 (12-18)		12/08/2012	21	
520 P1 (24-30)		12/08/2012	15	
520 P2 (0-6)		12/08/2012	670	
520 P2 (12-18)		12/08/2012	850	
520 P2 (24-30)		12/08/2012	70	
520 P3 (0-6)		12/08/2012	320	
520 P3 (12-18)		12/08/2012	720	
520 P3 (24-30)		12/08/2012	170	
520 P4 (0-6)		12/08/2012	200	
520 P5 (0-6)		12/08/2012	270	
520 P6 (0-6)		12/08/2012	78	
520 P6 (12-18)		12/08/2012	63	
520 P6 (24-30)		12/08/2012	76	
520 P7 (0-6)		12/08/2012	51	
520 P7 (12-18)		12/08/2012	41	
520 P7 (24-30)		12/08/2012	43	
520 P8 (0-6)		12/08/2012	43	
520 P8 (12-18)		12/08/2012	41	
520 P8 (24-30)		12/08/2012	5.7	
521 Building (Figure F3)				
521 P1 (0-6)		12/09/2012	13	
521 P1 (12-18)		12/09/2012	11	
521 P1 (24-30)		12/09/2012	7.7	
521 P2 (0-6)		12/09/2012	72	
521 P2 (12-18)		12/09/2012	4.8	
521 P2 (24-30)		12/09/2012	8	
521 P3 (0-6)		12/09/2012	46	
521 P3 (12-18)		12/09/2012	14	
521 P3 (24-30)		12/09/2012	2.0	
521 P4 (0-6)		12/09/2012	150	
521 P4 (12-18)		12/09/2012	5.4	
521 P4 (24-30)		12/09/2012	1.4	U
521 P5 (0-6)		12/09/2012	44	
521 P5 (12-18)		12/09/2012	6.1	
521 P5 (24-30)		12/09/2012	3.9	
521 P5 (30-36)		12/09/2012	2.8	
521 P6 (0-6)		12/09/2012	680	
521 P7 (0-6)		12/09/2012	620	
521 P7 (12-18)		12/09/2012	7.9	
521 P7 (24-30)		12/09/2012	2.7	
521 P8 (0-6)		12/09/2012	140	
521 P8 (12-18)		12/09/2012	16	
521 P8 (24-30)		12/09/2012	4.9	
521 P9 (0-6)		12/09/2012	32	
521 P9 (12-18)		12/09/2012	29	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
521 P9 (24-30)		12/09/2012	15	
521 P10 (0-6)		12/09/2012	14	
521 P10 (12-18)		12/09/2012	17	
521 P10 (24-30)		12/09/2012	16	
521 P11 (0-6)		12/09/2012	37	
521 P11 (12-18)		12/09/2012	36	
521 P11 (24-30)		12/09/2012	0.85	J
521 P12 (0-6)		12/09/2012	79	
521 P12 (12-18)		12/09/2012	12	
521 P12 (24-30)		12/09/2012	0.65	J
521 P13 (0-6)		12/09/2012	78	
521 P13 (12-18)		12/09/2012	61	
521 P13 (24-30)		12/09/2012	4.1	
521 P14 (0-6)		12/09/2012	160	
521 P14 (12-18)		12/09/2012	7.9	
521 P14 (24-30)		12/09/2012	1.5	U
521 P15 (0-6)		12/13/2012	53	
S598 Building (Figure F6)				
Tank-P1 0-6"	Building is considered S598	10/17/2014	1.2	J
Tank-P1 12-18"	Building is considered S598	10/17/2014	0.39	J
Tank-P1 24-30"	Building is considered S598	10/17/2014	0.47	J
Tank-P2 0-6"	Building is considered S598	10/17/2014	6.1	
Tank-P2 12-18"	Building is considered S598	10/17/2014	8.1	
Tank-P2 24-30"	Building is considered S598	10/17/2014	8.2	
Tank-P3 0-6"	Building is considered S598	10/17/2014	8.8	
Tank-P3 12-18"	Building is considered S598	10/17/2014	1.2	J
Tank-P3 24-30"	Building is considered S598	10/17/2014	1.1	J
Tank-P4 0-6"	Building is considered S598	10/17/2014	25	
Tank-P4 12-18"	Building is considered S598	10/17/2014	0.91	J
Tank-P4 24-30"	Building is considered S598	10/17/2014	2.7	
1124 Building (Figure F16)				
1124 1 (0-6)		01/01/2011	21	
1124 1 (12-18)		12/06/2010	17	
1124 1 (24-28)		12/06/2010	2.6	
1124 2 (0-6)		12/06/2010	42	
1124 2 (12-18)		12/06/2010	57	
1124 2 (24-28)		12/06/2010	120	
1124 2 (30-36)		12/06/2010	54	
1124 3 (0-6)		12/06/2010	36	
1124 3 (12-18)		12/06/2010	51	
1124 3 (24-28)		01/01/2011	51	
1124 4 (0-6)		12/06/2010	3.3	
1124 4 (12-18)		12/06/2010	4.2	
1124 5 (0-6)		12/06/2010	9.7	
1124 5 (12-18)		12/06/2010	2.5	
1124 5 (24-28)		12/06/2010	2.4	
1124 6 (0-6)		12/06/2010	13	
1124 6 (12-18)		12/06/2010	39	
1124 6 (24-28)		12/06/2010	6.8	
1124 7 (0-6)		12/06/2010	40	
1124 7 (12-18)		12/06/2010	2.4	
1124 7 (24-28)		12/06/2010	5.0	
1124 7 (30-36)		12/06/2010	4.8	
1124 8 (0-6)		12/06/2010	30	
1124 8 (12-18)		12/06/2010	18	
1124 8 (24-28)		12/06/2010	12	
1124 9 (0-6)		12/06/2010	3.6	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
1124 9 (12-18)		12/06/2010	5.0	
1124 9 (24-28)		12/06/2010	4.7	
1124 10 (0-6)		12/06/2010	14	
1124 10 (12-18)		12/06/2010	17	
1124 10 (24-28)		12/06/2010	2.4	
1124 11 (0-6)		12/06/2010	42	
1124 11 (12-18)		12/06/2010	3.1	
1124 11 (24-28)		12/06/2010	2.6	
1124 13 (0-6)		12/06/2010	49	
1124 13 (12-18)		01/01/2011	25	
1124 13 (24-28)		12/06/2010	27	
1124 14 (0-6)		12/06/2010	20	
1124 14 (12-18)		12/06/2010	11	
1124 14 (24-28)		12/06/2010	5.8	
1124 15 (0-6)		12/06/2010	45	
1124 15 (12-18)		12/06/2010	53	
1124 15 (24-28)		12/06/2010	5.3	
1124 16 (0-6)		01/01/2011	12	
1124 16 (12-18)		12/06/2010	7.9	
1124 17 (0-6)		12/06/2010	14	
1124 17 (12-18)		12/06/2010	5.0	
1124 17 (24-28)		12/06/2010	4.6	
1124 18 (0-6)		12/06/2010	2.3	
1124 18 (12-18)		12/06/2010	2.3	
1124 18 (24-28)		12/06/2010	5.0	
1124-P1 0-6"		10/17/2014	21	B
1124-P1 12-18"		10/17/2014	24	B
1124-P1 24-30"		10/17/2014	15	B
1124-P2 0-6"		10/17/2014	30	B
1124-P2 12-18"		10/17/2014	30	B
1124-P2 24-30"		10/17/2014	27	B
1124-P3 0-6"		10/17/2014	17	B
1124-P3 12-18"		10/17/2014	15	B
1124-P3 24-30"		10/17/2014	4.7	B
1124-P4 0-6"		10/17/2014	9.2	B
1124-P4 12-18"		10/17/2014	19	B
1124-P4 24-30"		10/17/2014	1.4	B
1124-P5 0-6"		10/17/2014	21	B
1124-P5 12-18"		10/17/2014	21	B
1124-P5 24-30"		10/17/2014	3.3	
1124-P5 30-36"		10/17/2014	7.2	
1124-P6 0-6"		10/17/2014	28	
1124-P6 12-18"		10/17/2014	20	
1124-P6 24-30"		10/17/2014	8.0	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
1126 Building (Figure F17)				
1126 P1 (0-6)		03/24/2014	120	
1126 P1 (12-18)		03/24/2014	42	
1126 P1 (24-30)	Lab report used sample ID: 4211 P1 (24-30)	03/24/2014	3.4	
1126 P2 (0-6)		03/24/2014	130	
1126 P2 (12-18)		03/24/2014	29	
1126 P2 (24-30)		03/24/2014	0.71	
1126 P3 (0-6)		03/24/2014	27	
1126 P3 (12-18)		03/24/2014	10	
1126 P3 (24-30)		03/24/2014	1.6	
1126 P4 (0-6)		03/24/2014	53	
1126 P4 (12-18)		03/24/2014	36	
1126 P4 (24-30)		03/24/2014	14	
1126 P4 (30-36)		03/24/2014	3.0	
1126 P5 (0-6)		03/24/2014	40	
1126 P5 (12-18)		03/24/2014	27	
1126 P5 (24-30)		03/24/2014	1.8	
1126 P6 (0-6)		03/24/2014	12	
1126 P6 (12-18)		03/24/2014	4.6	
1126 P6 (24-30)		03/24/2014	2.7	
1126 P7 (0-6)		03/24/2014	24	
1126 P7 (12-18)		03/24/2014	7.8	
1126 P7 (24-30)		03/24/2014	1.2	U
1126 P8 (0-6)		03/24/2014	15	
1126 P8 (12-18)		03/24/2014	22	
1126 P8 (24-30)		03/24/2014	1.0	U
1126 P9 (0-6)		03/24/2014	20	
1126 P9 (12-18)		03/24/2014	13	
1126 P9 (24-30)		03/24/2014	1.1	U
1126 P9 (30-36)		03/24/2014	1.4	U
1126 P10 (0-6)		03/24/2014	72	
1126 P10 (12-18)		03/24/2014	15	
1126 P10 (24-30)		03/24/2014	3.3	
1126 P11 (0-6)		03/24/2014	63	
1126 P11 (12-18)		03/24/2014	90	
1126 P11 (24-30)		03/24/2014	39	
1126 P12 (0-6)		03/24/2014	60	
1126 P12 (12-18)		03/24/2014	17	
1126 P12 (24-30)		03/24/2014	10	
1126 P13 (0-6)		03/24/2014	50	
1126 P13 (12-18)		03/24/2014	11	
1126 P13 (24-30)		03/24/2014	5.8	
1126 P14 (0-6)		03/24/2014	59	
1126 P14 (12-18)		03/24/2014	46	
1126 P14 (24-30)		03/24/2014	0.75	J
1126 P15 (0-6)		03/24/2014	45	
1126 P15 (12-18)		03/24/2014	2.0	
1126 P15 (24-30)		03/24/2014	1.2	U
1126 P16 (0-6)		03/24/2014	54	
1126 P16 (12-18)		03/24/2014	4.3	
1126 P16 (24-30)		03/24/2014	4.0	
1126 P17 (0-6)		03/25/2014	18	
1126 P17 (12-18)		03/25/2014	6.5	
1126 P17 (24-30)		03/25/2014	4.5	
1126 P18 (0-6)		03/25/2014	240	
1126 P18 (12-18)		03/25/2014	2.5	
1126 P18 (24-30)		03/25/2014	1.2	U

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
2127 Building (Figure F12)				
2127 P1 (0-6)		12/11/2012	66	
2127 P2 (0-6)		12/11/2012	59	
2127 P2 (12-18)		12/11/2012	4.7	
2127 P2 (24-30)		12/11/2012	1.5	
2127 P3 (0-6)		12/11/2012	24	
2127 P3 (12-18)		12/11/2012	33	
2127 P3 (24-30)		12/11/2012	1.5	
2127 P3 (30-36)		12/11/2012	1.3	U
2127 P4 (0-6)		12/11/2012	80	
2127 P4 (12-18)		12/11/2012	83	
2127 P4 (24-30)		12/11/2012	1.6	
2127 P5 (0-6)		12/11/2012	12	
2127 P5 (12-18)		12/11/2012	4.5	
2127 P5 (24-30)		12/11/2012	1.3	U
2127 P6 (0-6)		12/11/2012	21	
2127 P6 (12-18)		12/11/2012	17	
2127 P6 (24-30)		12/11/2012	20	
2127 P7 (0-6)		12/11/2012	18	
2127 P7 (12-18)		12/11/2012	46	
2127 P7 (24-30)		12/11/2012	62	
2127 P8 (0-6)		12/11/2012	71	
2127 P8 (12-18)		12/11/2012	16	
2127 P8 (24-30)		12/11/2012	26	
2127 P9 (0-6)		12/11/2012	66	
2127 P9 (12-18)		12/11/2012	210	
2127 P9 (24-30)		12/11/2012	54	
2127 P10 (0-6)		12/11/2012	63	
2127 P10 (12-18)		12/11/2012	16	
2127 P10 (24-30)		12/11/2012	40	
2127 P11 (0-6)		12/11/2012	19	
2127 P11 (12-18)		12/11/2012	8.9	
2127 P11 (24-30)		12/11/2012	13	
2127 P11 (30-36)		12/11/2012	14	
2127 P12 (0-6)		12/11/2012	200	
2127 P12 (12-18)		12/11/2012	82	
2127 P12 (24-30)		12/11/2012	18	
S3126 Reservoir (Figure F2)				
3126E-P1 0-6"	Lab report & COC use Sample ID: 3127W-P1 0-6"	10/18/2014	130	B
3126E-P1 12-18"	Lab report & COC use Sample ID: 3127W-P1 12-18"	10/18/2014	230	B
3126E-P1 24-30"	Lab report & COC use Sample ID: 3127W-P1 24-30"	10/18/2014	62	B
3126E-P2 0-6"		10/31/2015	3,100	B
3126E-P2 12-18"		10/31/2015	150	
3126E-P2 24-30"		10/31/2015	53	
3126E-P3 0-6"		10/31/2015	28	
3126E-P3 12-18"		10/31/2015	36	
3126E-P3 24-30"		10/31/2015	21	
3126E-P4 0-6"		10/31/2015	63	
3126E-P4 12-18"		10/31/2015	80	
3126E-P4 24-30"		10/31/2015	28	
3126E-P5 0-6"		10/31/2015	34	B
3126E-P5 12-18"		10/31/2015	27	B
3126E-P5 24-30"		10/31/2015	16	B

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
S3127 Reservoir (Figure F2)				
3127W-P1 0-6"		10/31/2015	23	B
3127W-P1 12-18"		10/31/2015	21	B
3127W-P1 24-30"		10/31/2015	6.9	B
3127W-P2 0-6"	Lab report & COC use Sample ID: 3126E-P2 0-6"	10/18/2014	160	B
3127W-P2 12-18"	Lab report & COC use Sample ID: 3126E-P2 12-18"	10/18/2014	230	B
3127W-P2 24-30"	Lab report & COC use Sample ID: 3126E-P2 24-30"	10/18/2014	130	B
3127W-P3 0-6"		10/31/2015	60	B
3127W-P3 12-18"		10/31/2015	65	B
3127W-P3 24-30"		10/31/2015	0.68	J B
3127W-P4 0-6"		10/31/2015	54	B
3127W-P4 12-18"		10/31/2015	43	B
3127W-P4 24-30"		10/31/2015	7.3	B
3127W-P5 0-6"		10/31/2015	15	B
3127W-P5 12-18"		10/31/2015	7.1	B
3127W-P5 24-30"		10/31/2015	1.6	B
3501 Building (Figure F2)				
3501-P1 0-6"		10/31/2015	250	
3501-P1 12-18"		10/31/2015	100	
3501-P1 24-30"		10/31/2015	18	
3501-P2 0-6"		10/18/2014	490	B
3501-P2 12-18"		10/18/2014	33	B
3501-P2 24-30"		10/18/2014	29	B
3501-P3 0-6"		10/18/2014	100	B
3501-P3 12-18"		10/18/2014	110	B
3501-P3 24-30"		10/18/2014	2.4	B
3501-P4 0-6"		10/31/2015	77	
3501-P4 12-18"		10/31/2015	70	
3501-P4 24-30"		10/31/2015	41	
3501-P5 0-6"		10/31/2015	44	B
3501-P5 12-18"		10/31/2015	31	B
3501-P5 24-30"		10/31/2015	5.6	B
3501-P6 0-6"		10/31/2015	190	B
3501-P6 12-18"		10/31/2015	110	B
3501-P6 24-30"		10/31/2015	58	B
3501-P7 0-6"		10/18/2014	240	B
3501-P7 12-18"		10/18/2014	230	B
3501-P7 24-30"		10/18/2014	60	B
3521 Building (Figure F10)				
3521 P1 (0-6)		12/10/2012	18	
3521 P1 (12-18)		12/10/2012	1.3	U
3521 P1 (24-30)		12/10/2012	1.4	U
3521 P2 (0-6)		12/10/2012	37	
3521 P2 (12-18)		12/10/2012	26	
3521 P2 (24-30)		12/10/2012	4.9	
3521 P3 (0-6)		12/10/2012	100	
3521 P3 (12-18)		12/10/2012	170	
3521 P3 (24-30)		12/10/2012	130	
3521 P4 (0-6)		12/10/2012	62	
3521 P4 (12-18)		12/10/2012	39	
3521 P4 (24-30)		12/10/2012	64	
3521 P5 (0-6)		12/10/2012	69	
3521 P5 (12-18)		12/10/2012	18	
3521 P5 (24-30)		12/10/2012	49	
3521 P5 (30-36)		12/10/2012	56	
3521 P6 (0-6)		12/10/2012	26	
3521 P6 (12-18)		12/10/2012	23	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
3521 P6 (24-30)		12/10/2012	0.14	J
3521 P7 (0-6)		12/10/2012	22	
3521 P7 (12-18)		12/10/2012	1,500	
3521 P7 (24-30)		12/10/2012	37	
3521 P8 (0-6)		12/10/2012	36	
3521 P8 (12-18)		12/10/2012	7.8	
3521 P8 (24-30)		12/10/2012	18	
3521 P9 (0-6)		12/10/2012	26	
3521 P9 (12-18)		12/10/2012	2.4	
3521 P9 (24-30)		12/10/2012	1.3	U
3521 P10 (0-6)		12/10/2012	37	
3521 P10 (12-18)		12/10/2012	60	
3521 P10 (24-30)		12/10/2012	1.3	U
3521 P11 (0-6)		12/10/2012	31	
3521 P11 (12-18)		12/10/2012	1.3	U
3521 P11 (24-30)		12/10/2012	1.2	U
3521 P12 (0-6)		12/10/2012	27	
3521 P12 (12-18)		12/10/2012	27	
3521 P12 (24-30)		12/10/2012	77	
3521 P12 (30-36)		12/10/2012	9.9	
5342 Building (Figure F8)				
5342-P1 0-6"		10/16/2014	25	
5342-P1 12-18"		10/16/2014	28	
5342-P1 24-30"		10/16/2014	5.2	
5342-P2 0-6"		10/16/2014	190	
5342-P2 12-18"		10/16/2014	62	
5342-P2 24-30"		10/16/2014	28	
5342-P3 0-6"		10/16/2014	42	
5342-P3 12-18"		10/16/2014	62	
5342-P3 24-30"		10/16/2014	18	
5342-P4 0-6"		10/16/2014	43	
5342-P4 12-18"		10/16/2014	36	
5342-P4 24-30"		10/16/2014	8.6	
5342-P5 0-6"		10/16/2014	70	
5342-P5 12-18"		10/16/2014	45	
5342-P5 24-30"		10/16/2014	18	
5342-P6 0-6"		10/16/2014	15	
5342-P6 12-18"		10/16/2014	19	
5342-P6 24-30"		10/16/2014	9.9	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
9149 Building (Figure F9)				
9149 P1 (0-6)		03/25/2014	19	
9149 P1 (12-18)		03/25/2014	12	
9149 P1 (24-30)		03/25/2014	6.3	
9149 P2 (0-6)		03/25/2014	16	
9149 P2 (12-18)		03/25/2014	15	
9149 P2 (24-30)		03/25/2014	17	
9149 P3 (0-6)		03/25/2014	49	
9149 P3 (12-18)		03/25/2014	15	
9149 P3 (24-30)		03/25/2014	1.2	U
9149 P3 (30-36)		03/25/2014	1.0	U
9149 P4 (0-6)		03/25/2014	13	
9149 P4 (12-18)		03/25/2014	24	
9149 P4 (24-30)		03/25/2014	0.11	J
9149 P5 (0-6)		03/26/2014	19	
9149 P5 (12-18)		03/26/2014	30	
9149 P5 (24-30)		03/26/2014	1.5	
9149 P6 (0-6)		03/26/2014	15	
9149 P6 (12-18)		03/26/2014	6.9	
9149 P6 (24-30)		03/26/2014	15	
9149 P7 (0-6)		03/26/2014	14	
9149 P7 (12-18)		03/26/2014	8.9	
9149 P7 (24-30)		03/26/2014	27	
9149 P8 (0-6)		03/26/2014	16	
9149 P8 (12-18)		03/26/2014	66	
9149 P8 (24-30)		03/26/2014	17	
9149 P9 (0-6)		03/26/2014	16	
9149 P9 (12-18)		03/26/2014	14	
9149 P9 (24-30)		03/26/2014	38	
9149 P10 (0-6)		03/26/2014	18	
9149 P10 (12-18)		03/26/2014	17	
9149 P10 (24-30)		03/26/2014	14	
9149 P11 (0-6)		03/26/2014	11	
9149 P11 (12-18)		03/26/2014	15	
9149 P11 (24-30)		03/26/2014	8.2	
9149 P12 (0-6)		03/26/2014	12	
9149 P12 (12-18)		03/26/2014	16	
9149 P12 (24-30)		03/26/2014	21	
9149 P13 (0-6)		03/26/2014	19	
9149 P13 (12-18)		03/26/2014	11	
9149 P13 (24-30)		03/26/2014	21	
9149 P13 (30-36)		03/26/2014	27	
9149 P14 (0-6)		03/26/2014	9.7	
9149 P14 (12-18)		03/26/2014	8.3	
9149 P14 (24-30)		03/26/2014	7.1	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
Boat House (Figure F18)				
Boat House #1/2 P1 (0-6)		03/22/2014	290	
Boat House #1/2 P1 (12-18)		03/22/2014	49	
Boat House #1/2 P1 (24-30)		03/22/2014	71	
Boat House #1/2 P2 (0-6)		03/22/2014	49	
Boat House #1/2 P2 (12-18)		03/22/2014	0.62	J
Boat House #1/2 P2 (24-30)		03/22/2014	1.2	
Boat House #1/2 P3 (0-6)		03/23/2014	58	
Boat House #1/2 P3 (12-18)		03/23/2014	0.92	J
Boat House #1/2 P3 (24-30)		03/23/2014	4.7	
Boat House #1/2 P4 (0-6)		03/23/2014	50	
Boat House #1/2 P4 (12-18)		03/23/2014	13	
Boat House #1/2 P4 (24-30)		03/23/2014	0.78	J
Boat House #1/2 P5 (0-6)		03/23/2014	28	
Boat House #1/2 P5 (12-18)		03/23/2014	20	
Boat House #1/2 P5 (24-30)		03/23/2014	16	
Boat House #1/2 P6 (0-6)		03/23/2014	60	
Boat House #1/2 P6 (12-18)		03/23/2014	47	
Boat House #1/2 P6 (24-30)		03/23/2014	1.3	U
Boat House #1/2 P7 (0-6)		03/23/2014	71	
Boat House #1/2 P7 (12-18)		03/23/2014	170	
Boat House #1/2 P7 (24-30)		03/23/2014	4.9	
Boat House #1/2 P8 (0-6)		03/23/2014	58	
Boat House #1/2 P8 (12-18)		03/23/2014	71	
Boat House #1/2 P8 (24-30)		03/23/2014	32	
Boat House #1/2 P9 (0-6)		03/23/2014	61	
Boat House #1/2 P9 (12-18)		03/23/2014	59	
Boat House #1/2 P9 (24-30)		03/23/2014	3.7	
Boat House #1/2 P10 (0-6)		03/23/2014	20	
Boat House #1/2 P10 (12-18)		03/23/2014	26	
Boat House #1/2 P10 (24-30)		03/23/2014	1.2	U
Boat House #1/2 P10 (30-36)		03/23/2014	1.3	U
Boat House #1/2 P11 (0-6)		03/23/2014	28	
Boat House #1/2 P11 (12-18)		03/23/2014	24	
Boat House #1/2 P11 (24-30)		03/23/2014	2.0	
Boat House #1/2 P12 (0-6)		03/23/2014	18	
Boat House #1/2 P12 (12-18)		03/23/2014	14	
Boat House #1/2 P12 (24-30)		03/23/2014	9.9	
Boat House #1/2 P13 (0-6)		03/23/2014	4.8	
Boat House #1/2 P13 (12-18)		03/23/2014	4.5	
Boat House #1/2 P13 (24-30)		03/23/2014	3.8	
Boat House #1/2 P14 (0-6)		03/23/2014	13	
Boat House #1/2 P14 (12-18)		03/23/2014	9.5	
Boat House #1/2 P14 (24-30)		03/23/2014	7.9	
Boat House #1/2 P15 (0-6)		03/24/2014	10	
Boat House #1/2 P15 (12-18)		03/24/2014	16	
Boat House #1/2 P15 (24-30)		03/24/2014	17	
Boat House #1/2 P16 (0-6)		03/24/2014	20	
Boat House #1/2 P16 (12-18)		03/24/2014	25	
Boat House #1/2 P17 (0-6)		03/24/2014	77	
Boat House #1/2 P17 (12-18)		03/24/2014	130	
Boat House #1/2 P18 (0-6)		03/24/2014	25	
Boat House #1/2 P18 (12-18)		03/24/2014	25	
Boat House #1/2 P18 (24-30)		03/24/2014	67	
Boat House #1/2 P19 (0-6)		03/24/2014	54	
Boat House #1/2 P19 (12-18)		03/24/2014	55	
Boat House #1/2 P19 (24-30)		03/24/2014	5.2	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
Boat House #1/2 P20 (0-6)		03/24/2014	21	
Boat House #1/2 P20 (12-18)		03/24/2014	22	
Boat House #1/2 P20 (24-30)		03/24/2014	5.1	
Boat House #1/2 P21 (0-6)		03/24/2014	28	
Boat House #1/2 P21 (12-18)		03/24/2014	23	
Boat House #1/2 P21 (24-30)		03/24/2014	10	
Boat House #1/2 P22 (0-6)		03/24/2014	28	
Boat House #1/2 P22 (12-18)		03/24/2014	26	
Boat House #1/2 P22 (24-30)		03/24/2014	9.1	
Boat House #1/2 P22 (30-36)		03/24/2014	7.0	
Boat House #1/2 P23 (0-6)		03/24/2014	27	
Boat House #1/2 P23 (12-18)		03/24/2014	21	
Boat House #1/2 P23 (24-30)		03/24/2014	24	
Boat House #1/2 P24 (0-6)		03/24/2014	24	
Boat House #1/2 P24 (12-18)		03/24/2014	19	
Boat House #1/2 P24 (24-30)		03/24/2014	23	
Boat House #1/2 P24 (30-36)		03/24/2014	18	
Boat House #1/2 P25 (0-6)		03/24/2014	20	
Boat House #1/2 P25 (12-18)		03/24/2014	15	
Boat House #1/2 P25 (24-30)		03/24/2014	12	
Boat House #1/2 P26 (0-6)		03/24/2014	39	
Boat House #1/2 P26 (12-18)		03/24/2014	1,100	
Boat House #1/2 P26 (24-30)		03/24/2014	44	
Boat House #1/2 P27 (0-6)		03/24/2014	38	
Boat House #1/2 P27 (12-18)		03/24/2014	58	
Boat House #1/2 P27 (24-30)		03/24/2014	12	
Fire Hydrant 02 (Figure F19)				
FH 02-P1 0-6"		10/14/2014	110	
FH 02-P1 12-18"		10/14/2014	89	
FH 02-P1 24-30"		10/14/2014	5.7	
FH 02-P2 0-6"		10/14/2014	180	
FH 02-P2 12-18"		10/14/2014	110	B
FH 02-P2 24-30"		10/14/2014	21	B
FH 02-P3 0-6"		10/14/2014	180	B
FH 02-P3 12-18"		10/14/2014	84	B
FH 02-P3 24-30"		10/14/2014	3.6	B
Fire Hydrant 24 (Figure F19)				
FH 24-P1 0-6"		10/13/2014	73	
FH 24-P1 12-18"		10/13/2014	96	
FH 24-P1 24-30"		10/13/2014	22	
FH 24-P2 0-6"		10/13/2014	160	
FH 24-P2 12-18"		10/13/2014	86	
FH 24-P2 24-30"		10/13/2014	32	
FH 24-P3 0-6"		10/13/2014	180	
FH 24-P3 12-18"		10/13/2014	110	
FH 24-P3 24-30"		10/13/2014	41	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)
Fire Hydrant 37 (Figure F19)			
FH 37-P1 0-6"		10/13/2014	190
FH 37-P1 12-18"		10/13/2014	390
FH 37-P1 24-30"		10/13/2014	110
FH 37-P2 0-6"		10/13/2014	160
FH 37-P2 12-18"		10/13/2014	140
FH 37-P2 24-30"		10/13/2014	280
FH 37-P3 0-6"		10/13/2014	200
FH 37-P3 12-18"		10/13/2014	130
FH 37-P3 24-30"		10/13/2014	170
Fire Hydrant 44 (Figure F19)			
FH 44-P1 0-6"		10/13/2014	11
FH 44-P1 12-18"		10/13/2014	18
FH 44-P1 24-30"		10/13/2014	27
FH 44-P2 0-6"		10/13/2014	11
FH 44-P2 12-18"		10/13/2014	11
FH 44-P2 24-30"		10/13/2014	2.0
FH 44-P2 30-36"		10/13/2014	1.9
FH 44-P3 0-6"		10/13/2014	15
FH 44-P3 12-18"		10/13/2014	6.6
FH 44-P3 24-30"		10/13/2014	2.1
Fire Hydrant 48 (Figure F19)			
FH 48-P1 0-6"		10/09/2014	18
FH 48-P1 12-18"		10/09/2014	18
FH 48-P1 24-30"		10/09/2014	38
FH 48-P2 0-6"		10/09/2014	16
FH 48-P2 12-18"		10/09/2014	21
FH 48-P2 24-30"		10/09/2014	24
FH 48-P3 0-6"		10/09/2014	18
FH 48-P3 12-18"		10/09/2014	16
FH 48-P3 24-30"		10/09/2014	15
Fire Hydrant 54 (Figure F19)			
FH 54-P1 0-6"		10/10/2014	67
FH 54-P1 12-18"		10/10/2014	70
FH 54-P1 24-30"		10/10/2014	35
FH 54-P2 0-6"		10/10/2014	46
FH 54-P2 12-18"		10/10/2014	70
FH 54-P2 24-30"		10/10/2014	29
FH 54-P3 0-6"		10/10/2014	130
FH 54-P3 12-18"		10/10/2014	160
FH 54-P3 24-30"		10/10/2014	40
Fire Hydrant 70 (Figure F19)			
FH 70-P1 0-6"		10/13/2014	110
FH 70-P1 12-18"		10/13/2014	110
FH 70-P1 24-30"		10/13/2014	130
FH 70-P2 0-6"		10/13/2014	250
FH 70-P2 12-18"		10/13/2014	48
FH 70-P2 24-30"		10/13/2014	34
FH 70-P3 0-6"		10/13/2014	170
FH 70-P3 12-18"		10/13/2014	180
FH 70-P3 24-30"		10/13/2014	53

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)	
Fire Hydrant 77 (Figure F19)				
FH 77-P1 0-6"		10/10/2014	110	
FH 77-P1 12-18"		10/10/2014	350	
FH 77-P2 0-6"		10/10/2014	62	
FH 77-P2 12-18"		10/10/2014	27	
FH 77-P2 24-30"		10/10/2014	36	
FH 77-P3 0-6"		10/10/2014	97	
FH 77-P3 12-18"		10/10/2014	120	
FH 77-P3 24-30"		10/10/2014	130	
Pesticide Building (Figure F1)				
PEST. STORAGE P1 (0-6)		03/25/2014	31	
PEST. STORAGE P1 (12-18)		03/25/2014	13	
PEST. STORAGE P1 (24-30)		03/25/2014	0.59	J
PEST. STORAGE P2 (0-6)		03/25/2014	57	
PEST. STORAGE P2 (12-18)		03/25/2014	19	
PEST. STORAGE P2 (24-30)		03/25/2014	0.34	J
PEST. STORAGE P3 (0-6)		03/25/2014	42	
PEST. STORAGE P3 (12-18)		03/25/2014	4.6	
PEST. STORAGE P3 (24-30)		03/25/2014	10	
PEST. STORAGE P4 (0-6)		03/25/2014	43	
PEST. STORAGE P4 (12-18)		03/25/2014	25	
PEST. STORAGE P4 (24-30)		03/25/2014	14	
PEST. STORAGE P5 (0-6)		03/25/2014	60	
PEST. STORAGE P5 (12-18)		03/25/2014	69	
PEST. STORAGE P5 (24-30)		03/25/2014	7.7	
PEST. STORAGE P6 (0-6)		03/25/2014	36	
PEST. STORAGE P6 (12-18)		03/25/2014	15	
PEST. STORAGE P6 (24-30)		03/25/2014	2.3	
PEST. STORAGE P6 (30-36)		03/25/2014	1.1	U
PEST. STORAGE P7 (0-6)		03/25/2014	41	
PEST. STORAGE P7 (12-18)		03/25/2014	4.3	
PEST. STORAGE P7 (24-30)		03/25/2014	3.5	
PEST. STORAGE P8 (0-6)		03/25/2014	38	
PEST. STORAGE P8 (12-18)		03/25/2014	38	
PEST. STORAGE P8 (24-30)		03/25/2014	14	
PEST. STORAGE P9 (0-6)		03/25/2014	43	
PEST. STORAGE P9 (12-18)		03/25/2014	18	
PEST. STORAGE P9 (24-30)		03/25/2014	9.0	
PEST. STORAGE P10 (0-6)		03/25/2014	37	
PEST. STORAGE P10 (12-18)		03/25/2014	9.6	
PEST. STORAGE P10 (24-30)		03/25/2014	0.36	J
PEST. STORAGE P11 (0-6)		03/25/2014	51	
PEST. STORAGE P11 (12-18)		03/25/2014	87	
PEST. STORAGE P11 (24-30)		03/25/2014	43	
PEST. STORAGE P12 (0-6)		03/25/2014	59	
PEST. STORAGE P12 (12-18)		03/25/2014	24	
PEST. STORAGE P12 (24-30)		03/25/2014	35	
PEST. STORAGE P13 (0-6)		03/25/2014	34	
PEST. STORAGE P13 (12-18)		03/25/2014	12	
PEST. STORAGE P13 (24-30)		03/25/2014	62	
PEST. STORAGE P13 (30-36)		03/25/2014	7.6	
PEST. STORAGE P14 (0-6)		03/25/2014	40	
PEST. STORAGE P14 (12-18)		03/25/2014	6.3	
PEST. STORAGE P14 (24-30)		03/25/2014	5.7	
PEST. STORAGE P15 (0-6)		03/25/2014	31	
PEST. STORAGE P15 (12-18)		03/25/2014	30	
PEST. STORAGE P15 (24-30)		03/25/2014	19	

Table F-1
Soil Sampling Results - DU9
Midway Atoll NWR

Sample Identification	Notes	Sample Date	Lead Concentration (mg/kg)
PEST. STORAGE P16 (0-6)		03/25/2014	54
PEST. STORAGE P16 (12-18)		03/25/2014	9.0
PEST. STORAGE P16 (24-30)		03/25/2014	21
PEST. STORAGE P17 (0-6)		03/25/2014	42
PEST. STORAGE P17 (12-18)		03/25/2014	2.8
PEST. STORAGE P17 (24-30)		03/25/2014	1.1 U

Notes:

1. For samples with duplicates, the results shown on the table are the higher of the two samples.

U Indicates non-detected compound at Reporting Limit

J Indicates estimated amount

B Indicates compound was found in the blank and sample

mg/kg = milligrams per kilogram

Shading indicates concentrations ≥ 75 mg/kg