

# EXPLOSIVE SAFETY RISK ASSESSMENT

FOR

San Miguel Island & Prince Island

MARCH 2015

NAVAL BASE VENTURA COUNTY



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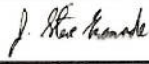

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**RECORD OF REVIEW AND APPROVAL**

**EXPLOSIVE SAFETY RISK ASSESSMENT FOR San Miguel Island & Prince Island**

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**VALIDATING OFFICIAL:** Geoff Buckner, Naval Facilities Engineering Command Southwest

APPROVAL	SIGNATURE	DATE
Explosives Safety Office (NBVC)		10 Mar 15
Environmental Office (NBVC)		6 Mar 15
NAVFAC Southwest	BUCKNER.GEOFFREY.T.12397 18201 <small>Digitally signed by BUCKNER.GEOFFREY.T.1239718201 DN: cn=BUCKNER.GEOFFREY.T.1239718201, ou=BUCKNER.GEOFFREY.T.1239718201, Date: 2015.03.12.06:31:53 -0700</small>	12 Mar 15
Commanding Officer, Naval Base Ventura County		25 MAR 15



## Findings, Conclusions and Recommendations

**Findings:** A surface and subsurface unexploded ordnance (UXO) survey was performed along the 18 miles of marked trails; nine identified high use areas, and other areas of interest on San Miguel Island (SMI), California with the goal of preparing Explosive Safety Risk Assessment evaluating public access to the island. Field activities began at SMI on October 6, 2014 and were completed on October 29, 2014. The Completion Report, UXO Survey, San Miguel Island, California is contained in Attachment C.

The following are the key statistics related to this effort:

- Surface sweeps and geophysical mapping surveys of marked trails extending east to Cardwell Point, west to Point Bennett, north to Harris Point as well as other marked and unmarked trails in the interior of the island. Surface sweeps along the trails extended approximately three to four feet on either side of each trail.
- Surface sweeps and geophysical mapping surveys of high use recreational areas, including beach and campground areas, airfields, National Park Service (NPS) wildlife monitoring areas, and other points of interest. Open and accessible high use areas were surveyed and cleared as follows:
  - Campgrounds and similar areas received 100 percent surface coverage,
  - Beach clearance was performed via transects spaced on 3 to 5 foot offsets, and
  - Runway clearances were performed via transects spaced on 3 to 5 foot offsets.

The records review indicated extensive but somewhat sporadic military operations beginning in the WWII era and concluding following the Vietnam era. The majority of training operations consisted of air to ground target practice by all of the services during WWII, Korea, and Vietnam. The majority of RDT&E consisted of missile testing during and following the Korea conflict. Training and RDT&E utilized onshore targets mostly at Cardwell Point, the south shore, and the green mountain areas. At one time targets may have been set up on the beach at Cuyler Harbor. Offshore targets were extensively used at Prince Island and adjacent to the Cardwell point area. Training included use of both live (HE) and practice munitions.

The field survey was highly biased concentrating only on the trails and open areas where the NPS and/or the public spend most of their time. The vast majority of the island land mass was not surveyed. The field effort identified evidence of target areas (craters, munitions fragments, and unexploded munitions (UXO) etc.) in the vicinity of Green Mountain, Cardwell Point, Crook Point, Hoffman Point, and Cuyler Harbor (including Prince Island).

No live (HE) munitions were encountered below or near the trails. No sensitive munitions (e.g. sub munitions) were encountered below or near the trails. Several practice bombs and flare canisters were recovered below or near the trails. One item was classified as UXO. It is likely that there are a large number of military munitions (including UXO) that are buried or covered by vegetation that was not discovered during the survey. It is possible that munitions, including UXO, will become unburied or uncovered due to erosion or other processes in the future.

**Conclusions:** Following the survey and recovery of munitions along the trails and commonly used open areas, the risk of encountering UXO in these areas is reduced but not eliminated. Risks of encountering UXO in areas not surveyed remains the same as before the survey. Based on the records review documenting past training and testing, it is possible that UXO can be encountered anywhere on the island. In addition, it is possible and likely that UXO exists in shallow offshore waters. Based on the results of the investigation, risks do not appear to preclude the NPS from continuing to manage the natural and cultural resources on the island.

**Recommendations:** It is recommended that all NPS employees and affiliated personnel be trained on the potential risks of encountering UXO as well as how to incorporate UXO avoidance procedures at all times while performing work on the island. It is further recommended that Land Use Controls (LUCs) be developed and implemented to reduce explosive safety risks to manageable levels. The list of LUCs to be jointly developed by Navy and National Park Service staff are included in Attachment A. The LUCs in Attachment A were developed based the Activity Hazard Analyses contained in Attachment B. The fully developed LUCs should be documented in a Land Use Control Implementation Plan that is approved by the Commanding Officer of Naval Base Ventura County and subsequently be included in the fed-to-fed use agreement for San Miguel Island and Prince Island.

Based on the results of the investigation, risks do not appear to preclude the public be allowed back on the island for limited visits after implementation of all LUCs included in the fed-to-fed use agreement for San Miguel Island and Prince Island. It is recommended that the public be escorted at all times by NPS personnel and be trained on the potential risks of encountering UXO as well as how to incorporate UXO avoidance procedures at all times while visiting the island.

Attachment A  
Land Use Controls

## Land Use Controls for San Miguel Island

### **Administrative Controls for Individuals:**

#### General Public:

1. Individual access permit required for everyone to include acknowledgement of risk, agreement to obey rules, and hold harmless agreement.
2. UXO safety training. The training shall be jointly developed by Navy and CINP.
3. Unescorted access:
  - a. Nidever trail from Cuyler Harbor Beach to the Ranger Station, Airfield, and campground location.
  - b. Cuyler Harbor Beach.
4. Access to all other island trails only when escorted by NPS personnel or official designee.
5. No off trail access allowed.
6. All potential UXO must be reported to NPS Ranger.
7. Handling or removing UXO from island is forbidden.
8. Total digging restriction.
  - a. Use of tent stakes not longer than 12" in length and no digging activities deeper than 12" is allowed at the SMI Campground.

#### Government Personnel:

1. UXO Safety Training.
2. Digging restriction:
  - a. No digging restriction around Ranger Station, campground, airfields, and NOAA Station.
  - b. UXO clearance required prior to any digging in known historic target areas.
  - c. Anomaly avoidance techniques are required in all other areas of

#### SMI. Non-government Researchers:

1. UXO Safety Training.
2. Permit required for access including language for acknowledgement of risk, agreement to obey rules, and hold harmless agreement.
3. Digging restriction:
  - a. No digging restriction around Ranger Station, campground, airfields, and NOAA Station.
  - b. UXO clearance required prior to any digging in known historic target areas. Any cost for clearance to be covered by permittee.
  - c. Anomaly avoidance techniques are required in all other areas of SMI. Any cost for anomaly avoidance to be covered by permittee.



Contractors:

1. UXO Safety Training.
2. Contract language to include UXO risk and SMI access rules.
3. If digging required by contract, digging restrictions shall apply:
  - a. No digging restriction around Ranger Station, campground, airfields, and NOAA Station.
  - b. UXO clearance required prior to any digging in known historic target areas. Any cost for clearance to be covered by the contractor.
  - c. Anomaly avoidance techniques are required in all other areas of SMI. Any cost for anomaly avoidance to be covered by the contractor.
  - d. H&S Plan with Activity Hazard Analyses to specifically include UXO.

**Institutional Administrative Controls:**

NPS:

1. Administer Access Permit system. Records submitted to Navy annually.
2. Administer UXO safety training. Records submitted to Navy annually.
3. Administer UXO discovery and reporting process.
4. Maintain all warning signage and delimiters.
5. Provide UXO information/warning on CINP website.
6. Provide escorts for general public as needed in areas where unescorted public access is not authorized.
7. Report any potential UXO discoveries to NBVC Explosive Safety Officer at 805-989-7050.
8. Periodically inspect the beach areas for UXO, including following major storm events.

NAVAIR:

1. Revise the Range Condition Assessment Report, to include new information on SMI, during the next scheduled update.
2. Update Range Clearance Plan to include

SMI. NBVC:

1. Oversee explosive safety program at SMI.
  - a. Receive and maintain records of Access Permit system.
  - b. Receive and maintain records of UXO safety training.
  - c. Receive and maintain records of UXO discoveries.
  - d. Coordinate explosive safety activities with NPS and NAVAIR.

EOD:

1. Respond to reported UXO discoveries.

**Engineering Controls:**

1. Warning signage at entry points. Full information included at Nidever Trail wayside exhibit and at the Ranger Station. Signs shall include the following information:
  - a. Navy property.
  - b. Warning statement regarding bombing range to include text and pictograms.
  - c. Access by permit only via CINP.
2. Trail markers around “safe” areas (campground, Ranger Station, and Airfields) at the trail intersections locations for each area.
3. Trail markers along trails at entry points to known target areas.

Attachment B  
Activity Hazard Analyses

# Activity Hazard Analysis (AHA) 1.0

Activity/Work Task: <b>General Public Access</b>	Overall Risk Assessment Code (RAC) (Use highest code)				L
<b>Risk Assessment Code (RAC) Matrix</b>					
Contract Number:	<b>Severity</b>				
Date Prepared: 5 March 2015	<b>Probability</b>				
Prepared by (Name/Title): Steve Granade/Environmental Engineer	Frequent	Likely	Occasional	Seldom	Unlikely
Reviewed by (Name/Title): Tom McLeod/Explosive Safety Officer	E	E	H	H	M
	E	H	H	M	L
	H	M	M	L	L
	M	L	L	L	L
<b>Notes:</b> (Field Notes, Review Comments, etc.)	Step 1: Review each “ <b>Hazard</b> ” with identified safety “ <b>Controls</b> ” and determine RAC (See above)				
	“ <b>Probability</b> ” is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom, or Unlikely.				
	“ <b>Severity</b> ” is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible				
	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each “Hazard” on AHA. Annotate the overall highest RAC at the top of AHA.				
	<b>Controls</b>				
<b>Activity</b>	<b>RAC Chart</b>				
General Public access to island.	E = Extremely High Risk H = High Risk M = Moderate Risk L = Low Risk				
Unfamiliarity with: island UXO hazards, island access requirements, and emergency procedures.	1) All members of the general public shall attend the SMI UXO safety training via CINP before access to the island is allowed. 2) All members of the general public ages 18 and over shall review and sign the SMI Access Permit before access to the island is allowed. All personnel members of the general public are required to keep a copy this Permit in their possession while visiting SMI. No unattended minors shall be allowed access to SMI.				
Unauthorized access of SMI by the general public.	1) All members of the general public must obtain a SMI Access Permit prior to visiting SMI. 2) Access to SMI by the general public is limited to the airfield by the Ranger Station and at Cuyler Harbor Beach. 3) Cuyler Harbor Beach shall be posted with signs with warnings about the risk from UXO and Access Permit requirement.				
Encountering UXO on the surface on the ground.	1) Members of the general public shall be escorted at all times by CINP personnel with the following exceptions: The campground area by the Ranger Station, the trail from Cuyler Harbor Beach to the Ranger Station, and Cuyler Harbor Beach. 2) No off trail access is allowed at any time. 3) Boundary markers shall be placed around the campground area and the general public area at Cuyler Harbor Beach. 4) Boundary markers shall be placed along trails at their entry points to known munitions target areas. 5) All suspected UXO items discovered must be immediately reported to the CINP Ranger. Removing any UXO item from SMI is forbidden.				

<b>Job Steps</b>	<b>Hazards</b>	<b>Controls</b>	<b>RAC</b>
General Public access to island, continued	Encountering UXO underneath the surface on the ground.	1) No digging or any other activity that penetrates the ground surface shall be allowed by the general public with the following exception: Tent stakes or similar can be used in the campground area.	L

<b>Equipment to be Used</b>	<b>Training Requirements</b>	<b>Inspection Requirements</b>
None	SMI UXO safety training SMI Access Permit	CINP Ranger inspection of SMI Access Permit. CINP Ranger inspection of signs and boundary markers. NBVC inspection of SMI Access Permit logs. NBVC inspection of SMI UXO safety training logs.

# Activity Hazard Analysis (AHA) 2.0

Activity/Work Task: <b>CINP Personnel Access</b>	Overall Risk Assessment Code (RAC) (Use highest code)	<b>L</b>			
Project Location: San Miguel Island, CA	<b>Risk Assessment Code (RAC) Matrix</b>				
Contract Number:	<b>Probability</b>				
Date Prepared: 5 March 2015	Frequent	Unlikely			
Prepared by (Name/Title): Steve Granade/Environmental Engineer	Likely	Seldom			
Reviewed by (Name/Title): Tom McLeod/Explosive Safety Officer	Occasional	Unlikely			
<b>Notes:</b> (Field Notes, Review Comments, etc.)	Catastrophic	<b>E</b>	<b>H</b>	<b>H</b>	<b>M</b>
	Critical	<b>E</b>	<b>H</b>	<b>H</b>	<b>M</b>
	Marginal	<b>H</b>	<b>M</b>	<b>M</b>	<b>L</b>
	Negligible	<b>M</b>	<b>L</b>	<b>L</b>	<b>L</b>
Step 1: Review each <b>"Hazard"</b> with identified safety <b>"Controls"</b> and determine RAC (See above)					
<b>"Probability"</b> is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom, or Unlikely.					
<b>"Severity"</b> is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible					
Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.					
<b>Activity</b>			<b>Controls</b>		
Channel Islands National Park personnel, including government employees, non-government research groups, CINP concessionaires, and contractor access to island.	Unfamiliarity with: island UXO hazards, island access requirements, and emergency procedures.		<ol style="list-style-type: none"> <li>All CINP personnel shall attend the SMI UXO safety training via CINP before access to the island is allowed.</li> <li>All non-Navy and NPS government entities must obtain an access license prior to visiting and performing research at SMI.</li> <li>All contracts with contractors and concessionaires performing work at SMI shall include a description of SMI UXO hazards, island access requirements, and emergency procedures.</li> </ol>		
Unauthorized access to restricted areas SMI by non-Navy and NPS government entities, non-government research groups, CINP concessionaires, and contractors.	Unauthorized access to restricted areas SMI by non-Navy and NPS government entities, non-government research groups, CINP concessionaires, and contractors.		<ol style="list-style-type: none"> <li>All non-Navy and NPS government entities must obtain an access license prior to visiting and performing research at SMI. All access licenses shall include areas approved for access.</li> <li>All contracts shall include areas approved for access.</li> <li>Access to general public accessible areas of SMI is allowed.</li> <li>Cuyler Harbor Beach shall be posted with signs with warnings about the risk from UXO and Access requirements.</li> </ol>		
Encountering UXO on the surface on the ground.	Encountering UXO on the surface on the ground.		<ol style="list-style-type: none"> <li>All CINP personnel shall develop Activity Hazard Analysis for all activities that occur outside of the general public access areas or off trail.</li> <li>Boundary markers shall be placed around the campground area and the general public area at Cuyler Harbor Beach.</li> <li>Boundary markers shall be placed along trails at their entry points to known munitions target areas.</li> <li>All suspected UXO items discovered must be immediately reported to the CINP Ranger. Removing any UXO item from SMI is forbidden.</li> </ol>		
			<b>RAC Chart</b>		
			<b>E = Extremely High Risk</b>		
			<b>H = High Risk</b>		
			<b>M = Moderate Risk</b>		
			<b>L = Low Risk</b>		
			<b>RAC</b>		
			<b>L</b>		

Job Steps	Hazards	Controls	RAC
Channel Islands National Park personnel access to island, continued	Encountering UXO underneath the surface on the ground.	<ol style="list-style-type: none"> <li>1) Digging or any other activity that penetrates the ground surface shall be allowed by CINP personnel without restriction in the following areas: The Ranger Station, the NOAA Station, both airfields, and the campground.</li> <li>2) At all other locations on SMI, anomaly avoidance techniques shall be used when performing digging or any other activity that penetrates the ground surface.</li> <li>3) At all other locations on SMI, if digging or any other activity that penetrates the ground surface is required at an underground anomaly location, EOD or UXO qualified construction support shall be required prior to the activity.</li> </ol>	L

Equipment to be Used	Training Requirements	Inspection Requirements
Geophysical Detectors	SMI UXO safety orientation SMI Access License Geophysical Detector use	CINP Ranger inspection of SMI Access Permit. CINP Ranger inspection of signs and boundary markers. CINP inspection geophysical detector calibration and instrument verification logs. NBVC inspection of SMI Access Permit logs. NBVC inspection of SMI UXO safety training logs.

Attachment C  
Completion Report, UXO Survey,  
San Miguel Island, California



**FINAL  
COMPLETION REPORT  
UXO SURVEY  
SAN MIGUEL ISLAND, CALIFORNIA**

**Department of the Navy  
Contract No. N62473-10-D-4009  
Contract Task Order 0106**



**NAVFAC Southwest  
1220 Pacific Highway  
San Diego, CA 92132**

**March 2015**

**FINAL**  
**COMPLETION REPORT**  
**UXO SURVEY**  
**SAN MIGUEL ISLAND, CALIFORNIA**

**Contract No. N62473-10-D-4009**

**Contract Task Order 0106**

Prepared for:

**DEPARTMENT OF THE NAVY**

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Date

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March 2, 2015

Richard Wong  
Program Manager

Date

## EXECUTIVE SUMMARY

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CB&I Federal Services LLC (CB&I) has been contracted by Naval Facilities Engineering Command Southwest to perform a surface and subsurface unexploded ordnance (UXO) survey along the 18 miles of marked trails, nine identified high use areas, and other areas of interest on San Miguel Island (SMI), California.

The survey and clearance work was authorized under the Department of the Navy Contract No. N62473-10-D-4009, Task Order No. 106. This report describes the activities that were performed to execute the UXO survey at SMI, reaffirming satisfactory project completion in accordance with the Navy Scope of Work issued September 5, 2014.

Field activities began at SMI on October 6, 2014 with placement of the instrument verification strip and were completed on October 29, 2014. The project had field duration of 24 calendar days.

The following are the key statistics related to this effort:

- Surface sweeps and EM61-MK2A (EM61) digital geophysical mapping surveys of marked trails extending east to Cardwell Point, west to Point Bennett, north to Harris Point as well as other marked and unmarked trails in the interior of the island. Surface sweeps along the trails extended approximately three to four feet on either side of each trail.
- Surface sweeps and EM61 digital geophysical mapping surveys of high use recreational areas, including beach and campground areas, airfields, National Park Service (NPS) wildlife monitoring areas, and other points of interest. Open and accessible high use areas were surveyed and cleared as follows:
  - Campgrounds and similar areas received 100 percent surface coverage,
  - Beach clearance was performed via transects spaced on 3 to 5 foot offsets, using tracks left in the sand for guidance,
  - Runways were temporarily marked with flagging spaced on 3 to 5 foot offsets to identify the transect lines.

### *Survey Results:*

- Number of Material Documented As Safe (MDAS) munition items – 11

- Number of Material Potentially Presenting An Explosive Hazard (MPPEH) munition items – 1
- Distance traversed with EM61 – 17.81 miles
- Distance traversed with metal detectors – 182.3 miles (metal detectors were used for transect surveys and not to survey areas)
- Area covered with EM61 – 16.05 acres

#### Material Storage and Handling:

- MDAS munition items – approximately 125 pounds
- MDAS and MPPEH munitions items were stored at the Ranger Station. An explosive ordnance disposal team from China Lake arrived on SMI on January 18, 2015 and removed the recovered items.

The following findings and conclusions are drawn from the UXO survey at SMI:

In reviewing the historical records and military use of SMI, it is evident that the island was used (or planned) for extensive military operations and training activities. Nevertheless, this training was somewhat sporadic, beginning in the World War II era and concluding following the Vietnam era. Activities included air-to-surface, surface-to-air, and surface-to-surface ordnance training. What is not known is to what extent the planned training was actually implemented using land-based targets. The small number of ordnance items found during the October 2014 UXO survey, coupled with the rugged terrain of the island and limited scope of the survey, does not fully confirm the extensive training (using land-based targets) conducted by the military as discussed in the Historic Context Study for SMI prepared by JRP Historical Consulting LLC (2010). Limited information is available concerning the May 1965 ordnance removal performed by the Navy. It is possible that this historical clearance effort already removed ordnance along the trails and high use areas that were addressed during the current effort. Other likely possibilities include that due to the pervasive soft sand there continues to be deeply buried ordnance or many of the training events used offshore targets (e.g. Prince Island).

The October 2014 UXO survey-specific findings and conclusions include the following:

- Training included the use of both high explosive-filled and practice munitions, as evidenced by the presence of bomb fragments, craters, and Bomb Dummy Units (BDUs).
- The majority of Research, Development, Testing, and Evaluation consisted of missile testing during and following the Korea conflict. Training and Research, Development,

Testing & Evaluation utilized onshore targets mostly at Cardwell Point, the south shore, and the Green Mountain areas. At one time targets may have been set up on the beach at Cuyler Harbor.

- Offshore targets were used extensively at Prince Island and adjacent to the Cardwell Point area.
- Only a very small percentage (less than 1%) of the island was actually investigated during the field work and surface identification of ordnance was limited due to thick vegetation covering the ground surface.
- The field survey was highly biased, concentrating mainly on the trails and open areas where the NPS personnel and/or the public spend most of their time.
- The field effort identified evidence of target areas (craters, bomb fragments, munitions etc.) in the Green Mountain, Cardwell Point, Hoffman Point, and south shore areas. However, no physical evidence of actual targets was found.
- No high explosive bearing munitions were encountered under or near the trails or along transects. Two practice bombs were recovered directly under the trails. Several other surface and subsurface MDAS munitions items were found off the trails. One item found on the surface was classified as MPPEH.
- There was no high explosive fragmentation or munitions debris found on the surface of the major trails or trails leading to study areas that were investigated.
- No munitions-type items were found on the campground areas.
- No high explosive munitions were found on the Cuyler Harbor Beach.
- The likelihood exists that there is an undetermined number of military munitions (including UXO) which remain buried or covered by vegetation and were not discovered during the survey. It should be expected that the highest concentration of remaining munitions would be encountered on or near former target areas.
- Following the survey and recovery of munitions (if found) along the trails and commonly used open areas, the risk of encountering UXO in these areas is reduced but not eliminated.
- Risks of encountering UXO in areas not surveyed remains the same as before the survey. Based on the records review documenting past training and testing, it is possible that

UXO can be encountered anywhere on the island. In addition, it is possible and likely that UXO exists in shallow offshore waters.

- The MPPEH items previously identified by island study staff were not documented. Blue flagging tape was observed next to two BDU-33 items.
- It is possible that munitions, including UXO, can be exposed due to erosion or other processes in the future. It should be expected that UXO could potentially be uncovered anywhere on the island (including on or below the trail system).

Based on a review of the available historical island data and the results of the October 2014 UXO survey, the following recommendations are provided:

- The beach area around Cuyler Harbor and other beach areas of lesser public use should be inspected periodically, after major storm events, for the presence of munitions. This recommendation is made because the beaches around the island are very dynamic and historical records identify numerous off-shore targets. Munitions currently off-shore could be washed onto the beach during severe weather events. Because the public historically has been authorized unescorted beach access, it is also recommended that signs be installed above the high tide line warning visitors of the dangers of encountering UXO.
- Based on the results of the survey, risks do not appear to preclude the NPS from continuing to manage the natural and cultural resources on the island. It is recommended that all NPS employees and affiliated personnel be trained on the potential risks of encountering UXO as well as how to incorporate UXO avoidance and reporting procedures at all times while performing work on the island.
- Based on the results of the survey, risks do not appear to preclude the public from access to the island for limited visits. It is recommended that the public be escorted at all times by NPS personnel when away from common areas. Also that the public attend a UXO avoidance briefing on the potential risks of encountering UXO as well as how to incorporate UXO avoidance procedures at all times while visiting the island. Non-escorted public access to Cuyler Harbor Beach and the trail from Cuyler Harbor to the Ranger Station could be allowed if additional land use controls, such as warning signs, are put in place.

It is recommended that land use controls, including dig restrictions incorporating UXO avoidance procedures, be put in place for the entire island.

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## **List of Acronyms**

BDU	Bomb Dummy Unit
CB&I	CB&I Federal Services LLC
EOD	Explosive Ordnance Disposal
EM61	EM61-MK2A
GIS	Geographic Information System
GPS	Global Positioning System
MDAS	Material Documented as Safe
MEC	Munitions and Explosives of Concern
MK	Mark
MPPEH	Material Potentially Presenting An Explosive Hazard
NAVFACSW	Naval Facilities Engineering Command Southwest
NOAA	National Oceanic and Atmospheric Administration
NPS	National Park Service
SMI	San Miguel Island
UXO	Unexploded Ordnance

## 1.0 INTRODUCTION

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CB&I Federal Services LLC (CB&I) was contracted by Naval Facilities Engineering Command Southwest (NAVFACSW) to perform a surface and subsurface unexploded ordnance (UXO) survey along the 18 miles of marked trails, nine identified high use areas, and other areas of interest on San Miguel Island (SMI), California. The survey work was authorized under the Department of the Navy Contract No. N62473-10-D-4009, Task Order No. 106. SMI is a Navy operational range that is concurrently a part of the Channel Islands National Park and managed by the National Park Service (NPS).

### 1.1 PURPOSE

This report describes the activities that were performed to execute a UXO Survey at SMI, affirming the satisfactory project completion in accordance with the Navy Statement of Work issued September 5, 2014. The purpose of the survey was to assess the risk of encountering UXO on SMI and was accomplished by performing a historical records review to determine the nature of past military activities followed by a limited field UXO survey of trails, high use areas, and random transects across the island.

### 1.2 PROJECT BACKGROUND

SMI is located off the southern coast of California, approximately 40 miles southwest of Santa Barbara (**Figure 1**), and is the westernmost of the eight Channel Islands. At its furthest extent, the island is 8 miles long and 3.5 miles wide. The Navy holds SMI and Prince Island in its real property inventory, with Naval Air Warfare Center Weapons Development and Commander Pacific Fleet as mission claimants. The Navy has no property records for any facilities or equipment at SMI or Prince Island.

The island is currently managed by the NPS via a Memorandum of Agreement with the Navy as part of the Channel Islands National Park. The NPS mission is to preserve and protect the natural and cultural resources of the Channel Islands National Park as well as promote opportunities for the public to visit the islands.

The NPS has a varied footprint across the island as a result of its role in managing natural and cultural resources for the Navy and promoting public visitation on SMI. There are high use areas around the ranger station & guest house, runways, campsites, and some beach areas where activity is allowed with little restriction. The majority of the island (**Figure 2**) is accessed by

marked primary trails and unmarked secondary trails. At prearranged times, small groups of the general public are transported to the island by a private outfitter for recreational opportunities but must be accompanied by a Park Ranger and stay on the primary trail system. The general public can also gain access to the island at Cuyler Harbor Beach via privately owned boats. The trail system is used by both NPS Park Rangers and the visiting public while traversing the island to limit trampling of fragile natural and cultural resources. Use of motorized vehicles is not generally permitted on the island. The trail system is also used by NPS Park Rangers, biologists, and National Oceanic and Atmospheric Administration (NOAA) personnel for research, conservation, and natural/cultural resource management activities. Typically, off-trail hiking is not allowed, however, researchers do perform some recurring limited off-trail activities in specific areas. There are no support services or utilities at SMI other than the NPS Ranger Station & guest house, and primitive camp sites.

On January 14, 2014, NPS staff found and reported an object that Navy Explosive Safety staff assessed as potential UXO. The island was subsequently closed by the Navy to the public and NPS staff. Following identification of the object and a determination that it was not UXO, the island was reopened to the NPS but remains closed to the public.

### **1.3 GENERAL SCOPE AND OBJECTIVES**

The general scope of the UXO survey effort was to perform a historical records review and a field survey to assess impacts of military munitions on SMI.

An archive record search was performed to document historical use of SMI by the military. The records search documented to the extent possible the type of military training and the munitions that were fired or dropped on or near the island. The results of the records and aerial photograph search are presented in Section 2.0.

The primary objective of the field survey was to determine if military munitions or their components remain on the island in the areas used by the public, NPS Rangers and scientists, or NOAA researchers. To accomplish this objective, a surface visual survey and subsurface survey using geophysical equipment was performed in the following areas:

- 1) Trails and high-use areas - users are NPS staff and the visiting public (higher risk potential).
- 2) Off-trail areas accessed for natural/cultural resource management (differentiated between low, med, and high priority areas) - users are NPS staff and NOAA (lower risk potential).

As described above, the intent of the survey was to be highly biased toward frequently used trails between key points (**Figure 2**) and commonly used open areas. Also, the intent was to assess only what was visible on the surface or what could be detected in the very near subsurface. The assessment was not intended to address all areas of the island where military munitions might occur or people may transit or to investigate the deep subsurface.

The field survey included both surface and subsurface detection and identification. A general description of field activities is summarized as follows:

- Perform a visual reconnaissance of the trails, off trail research areas, and high traffic areas.
- Installation of an Instrument Verification Strip in a non-iron bearing rock formation area to verify that the EM61-MK2A (EM61) geophysical equipment was working properly.
- Perform a ferrous metal detector-aided survey and visual surface clearance over the ground with metal detectors capable of detecting ferrous objects in the near subsurface.
- Perform a ferrous and non-ferrous subsurface metal detection survey (following the initial surface clearance) with an EM61 (or appropriate instrument for the terrain) for the detection of subsurface metal.
- The surface and subsurface surveys in the high use areas and at other areas of interest was conducted similarly to the survey along the trails except that in these areas, pin flags or other visual indicators were used to temporarily mark lanes along the ground in order to maintain straight survey lines and ensure the entire area was investigated.
- Using a dig list of anomaly locations generated from the Electromagnetic data processing, anomaly locations were reacquired using a hand-held Global Positioning System (GPS) instrument during intrusive field work.
- Anomaly selection/investigation was dependent on the signal strength from the EM61 and the physical location of the item. Anomalies identified within the main trails and high use areas were considered to be more important than anomaly locations in seldom used/traversed areas.
- The intrusive investigation involved hand excavation up to a depth of 24-inches at the reacquired anomaly locations in an attempt to identify the source of each selected

anomaly. If the source was deeper than 24 inches, the location was logged with a GPS unit and the field crew continued to the next anomaly location.

- If a military munition or a component item was identified, its location and description was logged with the GPS unit. The item was left in place until the Senior Unexploded Ordnance Supervisor determined it was safe to move or directed by the Navy to leave in place, per Department of Defense Explosive Safety Board Technical Paper 18 (2004).
- If an item was determined to be Material Potentially Presenting An Explosive Hazard (MPPEH) and could not be certified/verified as Material Documented As Safe (MDAS), the Navy was notified that an item had been found that required an active duty Explosive Ordnance Disposal (EOD) response. Since the island inhabitation was limited to contractor and one NPS personnel, items requiring EOD response could be identified, marked, then left for disposition by EOD or relocated to a secure area on the island (i.e. NPS Ranger Station) towards the end of the field work.
- Items recovered underwent a 100% verification and certification to classify as MDAS.
- Items verified as MDAS were containerized and secured awaiting possession by the Navy.

The above activities were performed under the direction of the Department of Navy. As each work activity was completed (i.e. main trails, high use areas, and off trail areas), the Navy was notified and a conference call set up (as necessary) to discuss the findings and work planned for the next activity.

#### **1.4 PROJECT ORGANIZATION**

The work activities for this project were performed by a project-dedicated team responsible for the management and completion of the overall project according to established protocol as outlined in the Work Plan (CB&I, 2014). The key project team leaders included the following:

**Project Manager:** Dan Pringle

**Senior Unexploded Ordnance Supervisor/UXO Safety Officer:** Shawn Meyer

**UXO Quality Control:** Richard Ricks

**Project Geophysicist:** Mark Kick

In addition to the CB&I personnel who supported this project, key Navy and NPS personnel were responsible for oversight, daily monitoring, and points of contact. These key Navy and NPS personnel included:

<p><b><u>NAVFACSW Project Manager</u></b></p> <p>Name: Eric Green</p> <p>Address: NAVFAC Southwest          Special Projects Team          Code EV4.EG          1220 Pacific Hwy          San Diego, CA 92132</p> <p>Phone: 619-532-1487</p> <p>E-mail: <b>Eric.C.Green@navy.mil</b></p>	<p><b><u>NAVFACSW Technical Lead</u></b></p> <p>Name: Geoff Buckner</p> <p>Address: NAVFAC Southwest          Special Projects Team          Code EV4.EG          1220 Pacific Hwy          San Diego, CA 92132</p> <p>Phone: 619-532-4560</p> <p>E-mail: <b>geoff.buckner@navy.mil</b></p>
<p><b><u>Environmental Engineer – Naval Base          Ventura County</u></b></p> <p>Name: Steve Granade</p> <p>Address: Building 632, Laguna Rd          Point Mugu, CA          93042</p> <p>Phone: 805-989-3806 office          805-340-9013 cell</p> <p>E-mail: <b>steve.granade@navy.mil</b></p>	<p><b><u>National Park Service – Ranger</u></b></p> <p>Name: Ian Williams</p> <p>Address: Channel Islands National Park          1901 Spinnaker Drive          Ventura, CA          93001</p> <p>Phone: 760-252-6169 Ext. 9110</p> <p>E-mail: <b>Ian_Williams@NPS.gov</b></p>

## 1.5 REPORT ORGANIZATION

The remainder of this report is organized as follows:

- **Section 2.0** provides a summary of the military history records search;
- **Section 3.0** provides a summary of the fieldwork performed;
- **Section 4.0** provides a summary of site documentation, including geophysical data management, health and safety, quality control, and project schedule;
- **Section 5.0** provides conclusions and recommendations;
- **Section 6.0** provides a list of references used in the preparation of this report;
- **Appendix A** presents photographic documentation of the project;

- **Appendix B** provides the material documentation for the project;
- **Appendix C** presents the health and safety documentation; and
- **Appendix D** presents the contractor reporting documentation.



## 2.0 SUMMARY OF MILITARY HISTORY RECORDS SEARCH

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Historical records were reviewed to identify types of training and where on or near the island training activities may have occurred.

### 2.1 HISTORICAL AERIAL PHOTOGRAPHS

A review of available historical aerial photographs of SMI from the period 1940 – 2012, provided by Environmental Data Resources (Environmental Data Resources, 2014), was performed to augment the records search for determining the historical land use and possible target/impact areas on the island prior to initiating the field survey.

Historical aerial photographs from 1940, 1954, 1955, 1960, 1964, 1977, 1983, 1994, 2002, 2003, and 2012 were reviewed. Unfortunately, the photographs were obtained from a high altitude, low resolution survey and detailed analysis was impractical. The photographs did not yield sufficient detail to identify targets, impact areas, or structures on the island. In addition, the lack of vegetation and drifting sand made it impossible to identify areas of stressed vegetation caused by air-to-ground ordnance impacts.

Observations made from a 2007 high resolution overflight did yield some useful information. Details seen on the high resolution aerial photograph included the NPS Ranger Station, NOAA building, two runways, and main walking trails. Impact craters located near Crook Point on the south of the island and northwest of Hoffman Point on the northeast of the island could also be identified. No additional features of interest other than those identified on the previous photos were observed. Therefore, due to the lack of low altitude, high resolution photography and the abundance of white blowing sand on the island, the detailed analysis of the historical aerial photographs did not yield pertinent information regarding historical military use of SMI.

### 2.2 HISTORICAL RECORDS REVIEW

The following summary of the military use of SMI is taken from the *Historic Context Study for San Miguel Island* (JRP Historical Consulting LLC, 2010) and the NPS Park Ranger daily journal entries for San Miguel Island (various dates). Specific areas of the island identified as target areas or locations where ordnance was found are presented in bold print. A summary of known munitions used on the island is included in **Table 1**.

### 1930s

The first documented military use of SMI occurred in February 1933 when US Marines set up a temporary radio and observation outpost at Point Bennett, on the western tip of the island, as part of a training exercise with the battleship USS Tennessee. Through Executive Order, the Department of the Navy assumed control and jurisdiction of the island from the Department of Commerce in November 1934. Following acquisition of the island, the Navy investigated the potential for military uses of the island in February 1935 and reportedly considering constructing a standard airplane landing field. In 1937, the island was used as a target for a 14-inch railway-mounted mobile artillery coastal defense gun based out of Fort McArthur in Los Angeles. The railway gun fired 1,400 pound shells at the island, however all shells fell short and landed in the water offshore.

### 1940s

A Coastal Lookout Station was established in January 1942 following the entry of the United States into World War II. The original station was located at the former ranch house near Cuyler Harbor and later moved to the summit of San Miguel Hill. The station remained in use until July 1945. Also in January 1942, a landing field constructed in the dry lake on the western end of the island was documented during an inspection of the island. The construction history of the dry lake strip remains unknown, including whether it was established by the Navy or some other party. The graded dirt landing strip remains in use today and is one of two active airfields on the island.

Although undocumented, it is presumed that SMI was used as a practice bombing range for Marine Corps Air Station Santa Barbara. Because of the human presence on the island, it is **likely that Wilson's Rock** (*located approximately 2 miles northwest of Harris Point*) **or other offshore landmarks were the targets** of these bombing runs and the lack of documentation suggests that range facilities such as permanent bombing targets were not present on SMI.

In July 1943, a B-24 bomber on a search mission crashed into the north slope of Green Mountain at an elevation of about 500 feet. Much of the plane virtually disintegrated on impact and wreckage was strewn over a wide area. Scattered remains of the wreckage are reportedly still visible to the present day.

Following the end of World War II, SMI became part of the Naval Air Missile Test Center missile range in 1946. No documentation exists to suggest that Naval Air Missile Test Center,

located on the mainland at Point Mugu, built or installed shore establishments on SMI in support of its guided missile testing and evaluation program.

In 1948, SMI was activated as a bombing range for use by the Navy and other services, particularly the Air Force, and in October 1949 the Air Force 93rd Bombardment Wing began using **SMI for high-altitude practice bombing missions**. Ordnance dropped included live 4,000-pound light case bombs from altitudes up to 30,000 feet. The Navy VC-5 and VC-6 training squadrons also used SMI for high-altitude bombing practice. **Targets were located in the waters offshore. Green Mountain served as a target onshore** and was demarcated with a large circle of lime.

### 1950s

With the outbreak of the Korean War in June 1950, bombing exercises increased at SMI with the Navy notifying the Coast Guard and local boaters of the “stepped-up armed forces gunnery and bombing practice program.” Navy practice bombing included 100-pound general purpose bombs with **Prince Island at the mouth of Cuyler Harbor serving as the target**.

The Air Force also performed low altitude (1,000 foot) bombing practice using inert “Blue Whistler” practice bombs. The “Blue Whistler” practice bombs consisted of a sand-filled casing topped with a five-pound powder charge that made a whistling sound and left a powdery mark at the point of impact.

Bombing exercises on SMI reached their peak during the Korean War years (1950-1953), and by the end of the decade had subsided considerably. In 1957 the NPS reported, “It is known that no use of the island is being made at this time by the Navy, all facilities there having been withdrawn some time ago.”

The Naval Air Missile Test Center was redesignated as the Pacific Missile Range in June 1958. Under Pacific Missile Range command, SMI’s chief use was as a target range for various air-to-surface and surface-to-surface missile systems.

### 1960s

In January of 1962, SMI was confirmed to have a role in the development of the Polaris missile system when a private Navy research contractor was reported to have been conducting highly classified tests on the island. Specifically where the research took place and what facilities, if any, may have been built or installed to support the work remains unknown.

In 1963, the Army tested the Sergeant, a nuclear-capable surface-to-surface missile, by firing at a target on SMI from a mobile launcher 62 miles away on San Nicolas Island. The Army desired to test the weapon at sea level in more dense and salt-laden air. The Army announced that the test was a success, but did not indicate if the missile hit any designated target on the island, nor did they divulge the size of any target.

In 1964, under its Land Mass Background studies program, Pacific Missile Range used SMI in a series of exercises to test radar guidance systems in various surface-to-surface and surface-to-air guided missiles. Exercises involved launching missiles from a boat in the channel in a southerly direction over the island to an offshore target. Pacific Missile Range ran two exercises of this type using Talos missiles in 1964.

In response to a local television program, “The Secret of San Miguel”, which, by its nature, encouraged civilians to go out to the island and search for buried treasure, the Navy conducted ordnance clearance across SMI in May 1965. The sweep was reported as a 100% surface coverage, but due to the continuous high winds and shifting sand it was believed additional items of ordnance might be revealed. Documentation providing details of the type(s) and quantities of ordnance recovered during the clearance effort was not available for this report.

As American involvement in the Vietnam War increased, the Navy began practicing tactical missile operations against combat-type targets at SMI in June 1965. Exercises were performed with inert (initially) and live (later) Bullpup air-to-surface missiles equipped with 250- and 1,000-pound semi-armor piercing warheads. The program called for Bullpup guided missiles to be launched at **a barge anchored 720 yards southeast of Bat Rock in Cuyler Harbor** and at various other target sites. The Navy planned to engage in missile and bombing exercises about 29 days out of every month.

The near-constant training schedule and the difficulties experienced with small boat owners and vandals ignoring warnings to stay away from the island forced the Navy to establish a danger zone in October 1965. The Danger Zone encompassed the eastern  $\frac{2}{3}$  of the island, marked by Range poles topped with triangular signs at Simonton Cove on the north shore and at South Green Mountain Canyon on the south shore, and extended three miles off shore to the north, east, and south. Following establishment of the danger zone, Bullpup missile exercises commenced using **a target barge anchored about  $\frac{1}{2}$  mile off Cardwell Point** on the eastern end of the island.

Additional training exercises included dropping bombs or firing missiles at onshore and offshore targets. Missiles fired included the Bullpup, Walleye, Condor, Zuni, and Nike-Zeus. The training exercises also employed 20mm cannon fire. Ordnance reportedly used in 1966 totaled:

Bombs	22 complete operations	250 + bombs
FFAR, Zuni	11 complete operations	numerous
Bullpup	21 completed operations	80 + missiles
20mm	2 completed operations	24,000 rounds.

Targets installed on the island included inflatable targets for the Bullpup, as well as simulated truck convoys, surface-to-air missile sites, tanks, and revetted aircraft **targets on the southeastern portion of the island between the escarpment and the beach**. Additional targets such as bridges and radio frequency radiating equipment were also planned. Naval missile firing ships also requested shore targets for surface-to-surface missile testing and pilot spotting training.

In November 1967 a Navy aircraft dropped a flare to warn off unauthorized visitors during hazardous naval operations and inadvertently caused a fire that burned the Lester ranch house, barns and surrounding grassland.

### 1970s

In May 1970 a Bullpup missile caused a second fire that blackened the eastern portion of the island.

By 1977 the frequency of bombing exercises at SMI had decreased and the island was used only for sighting purposes, with fire directed at an offshore target - **a barge anchored one mile south of Cardwell Point**. Aircraft dropped inert, 100-pound Blue Whistler bombs and inert Mark (MK) 76 practice bombs at the target.

Ordnance was discovered in late 1977 by Archaeologist Roberta Greenwood, who reported finding a ‘missile warhead’ at an unrecorded location. In January 1978, NPS Ranger Mike Hill discovered ordnance, painted blue and marked **‘Guided Missile Warhead’, near Cardwell Point**.

### 1980s

Range operations slowed at SMI and the island became part of the Channel Islands National Park in March 1980. Although the Navy retains ownership of the island, the NPS, per the

Memorandum of Agreement with the Navy, is responsible for controlling visitor access and overseeing resource management and protection.

As part of the Channel Islands National Park system, the increased presence of NPS staff resulted in increased discoveries of ordnance:

- September 1980 - NPS Ranger Don Unser located **UXO on Harris Point**.
- August 1982 - NPS Ranger Reed McLuskey reports that a Navy EOD team detonated an obsolete **250-pound general purpose bomb near Hoffman's Point**.
- July 1985 - NPS Ranger Don Unser located two 25-pound Bomb Dummy Unit (BDU) Navy **practice bombs ¾ miles west of Cardwell Point and 60-80 feet in from the cliff edge**; items were removed by Navy EOD.

### 3.0 SUMMARY OF FIELD WORK PERFORMED

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Details of the UXO survey performed at SMI are summarized in the following sections.

#### 3.1 PRE-SURVEY ACTIVITIES

A pre-survey meeting was held between CB&I, Navy, and NPS personnel to coordinate the field work and finalize the schedule for the project. At the pre-survey meeting, CB&I presented the project schedule as well as the detailed steps of the survey activities and the planned access restrictions during the field work. Lines of communication between CB&I, NAVFACSW, and the NPS were established during the meeting, as well as emergency procedures and coordination with Navy China Lake EOD personnel.

#### 3.2 MOBILIZATION AND SITE PREPARATION

CB&I personnel, equipment, and materials mobilized by small airplane from Camarillo, CA to SMI on October 5, 2014. A site orientation/preparatory meeting was held upon arrival at the NPS Ranger Station on SMI. Site preparation activities continued on October 6, 2014 with the installation of the Instrument Verification Strip and equipment checks of metal detectors (Schonstedt, EM61, and MineLabs all metals locator), GPS (base station, rovers, and hand-held receivers), and two-way radios. **Photographs 1 through 45 in Appendix A** document site conditions during the UXO survey.

#### 3.3 SURVEY ACTIVITIES

CB&I implemented a targeted approach for the survey consisting of visual identification of military munitions and their components, munitions debris, and range-related debris from the surface. Augmenting the visual survey the team used a metal detector for shallow subsurface assessment and, if appropriate, followed by a ferrous and non-ferrous subsurface metal detector survey using digital geophysical mapping equipment (EM61). Only metallic range-related debris that could be picked up by hand was removed. Non-metallic debris (such as wood) that did not interfere with the EM61 response was left in place. In some limited terrain situations, the ferrous metal detectors were used for subsurface anomaly surveys. Vegetation removal was not authorized for this survey; therefore the EM61 survey was restricted to trails and other open and accessible areas. However, the hand-held metal detectors were more maneuverable and were used throughout the island.

The UXO survey was performed between October 6 and October 29, 2014 with surface sweeps and EM61 digital geophysical mapping surveys of marked trails extending east to Cardwell Point, west to Point Bennett, north to Harris Point as well as other marked and unmarked trails in the interior of the island. High use recreational areas, including beach and campground areas, airfields, NPS wildlife monitoring areas, and other points of interest were also investigated. **Figures 3, 4, and 5** show the trails and areas that were surveyed. Photographs of survey activities are provided in **Photographs 4 through 42 in Appendix A**.

### 3.3.1 SURFACE SURVEY

The surface sweep team conducted a ferrous metal detector assisted visual surface clearance of marked and unmarked trails, high use recreational areas, NPS wildlife monitoring areas, and other points of interest between October 6 and October 29, 2014. The surface sweep along the marked trails extended approximately three to four feet on either side of the trail where possible. The EM61 and metal detectors were used to sweep these areas with the EM61 following a minimum of 20 feet behind the UXO technicians with metal detectors. Open and accessible high use areas were investigated with the EM61 as follows:

- Individual campgrounds and similar areas received 100 percent surface coverage,
- Beach clearance was performed via EM61 transects spaced on 3 to 5 foot offsets, using tracks left in the sand for guidance,
- Runways were temporarily marked with flagging spaced on 3 to 5 foot offsets to identify the transect lines.

All discovered surface metallic items were visually identified as safe-to-move Munitions and Explosives of Concern (MEC)/MPPEH, unsafe-to-move MEC/MPPEH, or miscellaneous scrap metal debris. After recording the location and description of any discovered MEC/MPPEH in an electronic data file, the UXO technicians collected the safe-to-move MEC/MPPEH items and placed them into 5-gallon plastic containers, as appropriate or left them in place until retrieved later in the project. Safe-to-move MEC/MPPEH were further identified as MPPEH or certified as MDAS and stored at a designated location near the ranger station. No unsafe to move MEC/MPPEH was identified during the four week survey.

Items detected during the surface sweep that were considered culturally or historically significant were set aside when possible and the area underneath was scanned with the metal detector before replacing the item. A large number of historically significant items were found in the area of the Lester Ranch House. These items were left in place upon completion of the sweep. Other items



detected during the surface and subsurface sweep that were not considered culturally or historically significant (e.g. tent stakes and coins in the camp ground areas) were considered scrap material and removed.

Numerous subsurface anomalies were detected during the metal detector aided surface clearance and flagged for investigation during the anomaly investigation (**Section 3.3.2**).

### **3.3.2 SUBSURFACE SURVEY**

EM61 digital geophysical mapping was used to conduct the subsurface detection of ferrous and non-ferrous metal objects. This instrument was used along the main island trails, airplane landing strips, camp sites, and along the main/central portion of Cuyler Harbor Beach. The EM61 was coupled with a GPS unit that provided accurate real-time location data utilizing a GPS rover on the EM61 and a GPS base station set up at a known survey point on the island. Because of the rugged terrain on the island, it was necessary to reposition the GPS base station among several known control points throughout the island as different parts of the island were surveyed with the EM61. This system resulted in location surveys with an accuracy of an inch or less.

Prior to starting each day of the subsurface survey, each of the two EM61 units was checked for proper operation by traversing over the Instrument Verification Strip (similar to the verification process for the metal detectors). For reasons unknown, the static tests would sometimes have erratic responses. Troubleshooting the instruments, consisting of checking/replacing batteries and cables, did not produce an acceptable response. It was concluded that, periodically (typically in the morning), the instruments were being affected by a signal coming from the mainland. The interference would render one or both instruments unusable until the EM61 response became constant. On two separate occasions, the EM61 was influenced by this external signal and the instrument recorded very high readings for an extended period of time during the day. This data was later deleted and the affected location re-investigated with the EM61.

Traversing the island with the EM61 proved to be more difficult than originally anticipated. The wheelbase of the EM61 unit was wider than the main island trails and vegetation on both sides of the trail made pulling the instrument difficult. In some cases, the instrument had to be dismantled and carried for a distance. The best example of this is the trail leading from just west of the campground to the main Cuyler Harbor Beach. In order to get to the beach, the EM61 instrument had to be disassembled and required the entire team to backpack the instrument to and from the beach.

The EM61 instruments were used for the subsurface survey along the trails and high use areas. These high use areas included the campground, airplane landing strips, and the main beach area at Cuyler Harbor as well as the main island trails. Whenever possible, several passes were made with the EM61 along trails with limited vegetation. For most trails, the width of the trail and adjacent vegetation limited the use of the EM61 to those portions of the trails shown on **Figure 3**.

The majority of the subsurface survey was conducted using hand-held metal detectors. Two types of metal detectors were used: an all-metals detector (MineLab) and a ferrous metal detector (Schonstedt). These metal detectors proved effective in areas the EM61 was not able to survey due to terrain or vegetation.

The hand-held metal detectors were used to traverse the island in search of subsurface anomalies. A hand-held GPS unit accompanied the UXO team and tracked the movement of the team across the island. Prior to the start of the field work, the Navy identified areas or transects of interest that became part of the survey area for the metal detectors. These areas included:

- High use areas
  - Airplane runways
  - Campgrounds
  - Beach
  - Ranger Station, and
  - NPS wildlife monitoring areas
- Main Trails
- Erosion ravines

The proposed transects identified by the Navy are shown on **Figure 4**, along with the actual transect lines and areas that were investigated using the metal detectors

### 3.3.3 DATA PROCESSING

Data collected by the EM61 unit required processing prior to selection of subsurface anomalies. Data processing included the following steps:

*GPS interpolation* – GPS positions were recorded at 1.0 second intervals during data acquisition, while EM61 readings were recorded at 0.1 second intervals. This stage of data processing

interpolates between the recorded GPS positions and assigns coordinates to individual EM61 readings.

*Data Leveling (“Drift” Correction)* – the “zero” or background response of the EM61 shifts (“drifts”) gradually over the course of time due to factors such as temperature variations and declining battery power. Leveling is the process of normalizing all the data to a common zero or background level. The background level is determined by analysis of the daily calibration tests.

*Latency Correction* – a small but measurable time delay occurs between the acquisition of an EM61 reading and the recording of its position. This tends to manifest as a “herringbone” pattern in the data. The latency correction factor is determined by recording data on multiple passes in opposite directions over a small fixed metal object such as a survey nail. The latency correction shifts the peak response of the object back to its actual location.

*Gridding and Contouring* - the data is gridded and color contoured to create a map illustrating the distribution of EM61 response values over the survey area. This process also tends to smooth the data and reduce the effects of background noise.

Target Selection - Subsurface anomalies were selected from the contoured results using the following process. Initially, an automated target-picking algorithm known as the Blakely Test was applied to select anomalies with a millivolt response of 5 millivolt or greater. The initial results were then evaluated for anomalies caused by cultural items such as old metal fencing, reinforced concrete, or old homestead artifacts, and these were removed from the data set by the senior geophysicist. Other erroneous readings such as those caused by the signals from the mainland (discussed previously), were also removed from the data set. Once the data processing was complete, a dig list of several hundred locations was generated. The data was then re-evaluated and a higher electromagnetic threshold value was selected (approximately 10 millivolt) to narrow down the dig list.

### **3.3.4 SUBSURFACE ANOMALY PROSECUTION**

Once an anomaly location was reacquired using a hand-held GPS rover unit, the UXO technicians slowly removed the soil while refining the location and approximate depth with a smaller hand-held metal detector. The smaller metal detector was only sensitive to within a few inches of an object but gave a very good indication of exact location and approximate depth when close to the object.

After the anomaly item was identified, the UXO technicians documented its depth and description. If the item was ordnance-related (MPPEH or MDAS), it was photographed and possibly removed; some **bomb fragments (identified on and south of Green Mountain and around the impact craters northwest of Hoffman Point)** were left in place if they were small and deteriorated. In one instance, a 100 pound MK 15 practice bomb was left in place due to its size and depth below ground surface (greater than 24-inches). This item was verified to be filled with sand and the spotting charge expended. This item was found **southwest of Green Mountain** as shown on **Figures 3, 4, and 5**. A summary of the dig list and resulting finds is presented in **Table 2**.

### **3.3.5 RESULTS OF THE ANOMALY INVESTIGATION**

The subsurface anomaly MEC/MPPEH items identified and recovered included a BDU-33 tail fin assembly, unidentified fuze, two BDU-33 practice bombs, and a 100 pound MK 15 MOD3 sand-filled practice bomb. A complete list of MEC/MPPEH items recovered from the surface and subsurface during the UXO survey is provided in **Table 3**. The locations of all MEC/MPPEH items are shown in **Figures 3, 4, and 5**, except for the MK 45 flare canister found on October 5, 2014, which was found near the ranger station. Two of the surface BDU-33 items were marked with blue ribbon attached to vegetation, apparently having been found previously by personnel conducting other unrelated studies on the island as the items were far from any known trail. These particular items were found just **west of Cardwell Point**, as shown on **Figures 3, 4, and 5**.

All items found and removed during the anomaly survey were either certified and verified as MDAS or, in a single case, determined to be MPPEH by the unexploded ordnance quality control and Senior Unexploded Ordnance Supervisor. The disposition of the MDAS and MPPEH items are documented in the two DD Form 1348-1A Issue Release/Receipt forms provided in **Appendix B**.

In addition to the subsurface items, several surface MEC/MPPEH items were discovered while traversing the island. These items are also presented in **Table 3** and include flare canisters, practice bombs (BDU-33 and MK 106), and a marine marker. All but one of these items were certified and verified as MDAS. The one item not classified as MDAS, a **BDU-33 practice bomb found on the ground surface west of Cardwell Point**, was determined to still contain its spotting charge. This item was relocated to the Ranger Station where it was placed in a lidded plastic bucket along with its DD Form 1348-1A form and was buried approximately 1-foot

below ground surface at a marked location near the ranger station building. The item was stored there under the NPS Park Ranger's custody and periodic monitoring until a Navy EOD Team from China Lake was able to respond to the site and provide proper disposal (**Section 3.5**).

The items certified as MDAS were placed in plastic buckets (with completed DD Form 1348-1A) and stored in a locked storage shed adjacent to the Ranger Station, pending pick up and disposal by Navy EOD personnel (**Section 3.5**).

In addition to the items discussed above, numerous cultural items were identified in the subsurface and typically consisted of nails, wire, fencing, pipe, etc. which may be related to the former sheep ranching operation on the island; these items were not collected.

Photographs of some of the MEC/MPPEH items and debris recovered during the anomaly surveys are shown in **Photographs 27 through 42 in Appendix A**.

### **3.4 SITE RESTORATION**

As site clearance activities were completed, each excavated area was restored to pre-clearance conditions by backfilling the hole with the excavated dirt. No other restoration activities were required.

### **3.5 EXPLOSIVE ORDNANCE DISPOSAL RESPONSE**

On January 18, 2015, EOD personnel from China Lake arrived on SMI to recover the military munitions items previously discovered as well as items found during the October 2014 survey. The EOD team was successful in rendering safe the BDU-33 containing a spotting charge (MPPEH item) without conducting demolition. Other items previously certified/verified as MDAS were removed from the island along with the rendered safe BDU-33.

The EOD team was unable to locate the MK 15 sand-filled practice bomb (buried over 24-inches below ground surface) due to incorrect location coordinates provided during the initial survey. The correct coordinates of the item have been provided and the EOD team will remove the item at a later date.

## **4.0 SITE DOCUMENTATION AND SCHEDULE**

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### **4.1 GEOPHYSICAL DATA MANAGEMENT**

ArcGIS™ Software 10.1 was used to maintain, manage, evaluate, and report site information. The existing Geographic Information System (GIS) consists of data sets used by the NPS. Additional data collected during the operational range clearance will be incorporated into the existing GIS system. All GPS data collected was referenced to the 1983 North American Datum, State Plane California IV (U.S. feet).

Data collected and included in GIS are:

- Location/description of MEC/MPPEH;
- MEC/MPPEH recorded by weight by grid; and
- Location of subsurface anomaly survey.

All GIS data for the operational range clearance effort covered in this report will be delivered to the Navy in a GEOFidelis format geodatabase upon request.

### **4.2 HEALTH AND SAFETY**

The CB&I team provided a safe and accident free workplace during the execution of the Navy Statement of Work. There was a full-time unexploded ordnance safety officer on site during the project execution. The CB&I team executed many safety initiatives during this project so as to ensure the safety of its personnel, as well as visitors to the site. Tailgate Safety Meetings were conducted daily before each day's work activities, as well as the institution of a Safety Observer Program where worker participation was encouraged. Site-specific safety orientation was given to all personnel who worked at the site. A Safety Incentive Program was also established for the project, rewarding the personnel for safe work practices. A total of 759 field hours were recorded for this project without a worker accident or workplace incident.

#### **4.2.1 MANAGEMENT SAFETY INSPECTIONS**

Daily safety observations were conducted by the UXO safety officer and relayed to the site personnel at the next morning's safety meeting. These observations and morning discussions were an integral part of the overall accident prevention program and helped to demonstrate management's commitment to safety.

#### 4.2.2 DOCUMENTATION

The following types of health and safety documentation were maintained on site as active files for the duration of the project:

- Daily Tailgate Safety Meetings;
- Employee Sign-in/Sign-out Sheets;
- Job Safety Analyses; and
- Site-Specific Health and Safety Plan

The site health and safety documents can be found in **Appendix C**. In addition to the above, specific munitions publications and site specific operating procedures were available for review on site by CB&I personnel and visitors upon request.

#### 4.3 QUALITY CONTROL

The CB&I team provided and maintained an effective quality control program for the UXO survey at SMI. The purpose of the quality control program for this project was to ensure compliance with the Navy Statement of Work, the Work Plan (CB&I, 2014), and Best Management Practices as they apply to the work activities. Quality control responsibilities included:

- Conducting daily instrument checks and documenting the results of those checks;
- Verifying the GPS Base Station instrument was functioning properly via daily checks for the days used; and
- Maintaining an accurate photographic log of the work progress.

The UXO quality control specialist visually verified that all MEC/MPPEH and scrap were removed as required. The Contractor Report Documentation, including quality control documentation, is provided in **Appendix D**. MDAS and MPPEH material disposition documentation is provided in **Appendix B**.

#### 4.4 SCHEDULE

Early site preparation (installation of Instrument Verification Strip) at SMI began October 6, 2014 and site work was completed on October 29, 2014. The project had field duration of 24 calendar days.

An EOD team from China Lake mobilized to SMI on January 18, 2015 and removed the items found during the UXO survey.



## 5.0 CONCLUSIONS AND RECOMMENDATIONS

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The following conclusions are the result of the UXO field survey conducted by CB&I between October 6, 2014 to October 29, 2014, and the information obtained during the review of historical SMI documents and aerial photographs. Recommendations are provided by the NAVFACSW Special Projects Team.

### 5.1 CONCLUSIONS

In reviewing the historical records and military use of SMI, it is evident that the island was used (or planned) for extensive military operations and training activities. However, this training was somewhat sporadic, beginning in the World War II era and concluding following the Vietnam era. Activities included air-to-surface, surface-to-air, and surface-to-surface ordnance training. What is not known is to what extent the planned training was actually implemented. The small number of ordnance items found during the October 2014 UXO survey, coupled with the rugged terrain of the island and limited scope of the survey, does not fully confirm the extensive training conducted by the military as discussed in the *Historic Context Study for San Miguel Island* prepared by JRP Historical Consulting LLC (2010). If information regarding the ordnance removal performed by the Navy in May 1965 was available, perhaps more specific conclusions could be made regarding the extent of the training activities that were conducted at SMI.

The October 2014 UXO survey-specific conclusions include:

- Training included the use of both high explosive-filled and practice munitions, as evidenced by the presence of bomb fragments, craters, and BDUs.
- The majority of Research, Development, Testing, and Evaluation consisted of missile testing during and following the Korea conflict. Training and Research, Development, Testing, and Evaluation utilized onshore targets mostly at Cardwell Point, the south shore, and the Green Mountain areas. At one time targets may have been set up on the beach at Cuyler Harbor.
- Offshore targets were extensively used at Prince Island and adjacent to the Cardwell Point area.
- Only a very small percentage (less than 1%) of the island was actually investigated during the field work and surface identification of ordnance was limited due to thick vegetation covering the ground surface.

- The field survey was highly biased, concentrating mainly on the trails and open areas where the NPS personnel and/or the public spend most of their time.
- The field effort identified evidence of target areas (craters, bomb fragments, munitions etc.) in the Green Mountain, Cardwell Point, Hoffman Point, and south shore areas. However, no physical evidence of actual targets was found.
- No live high explosive munitions were encountered under or near the trails or along transects. Two practice bombs were recovered directly under the trails. Several other surface and subsurface MDAS munitions items were found off the trails. One item found on the surface was classified as MPPEH.
- There were no high explosive fragmentation or munitions debris found on the surface of the major trails or trails leading to study areas that were investigated.
- No munitions-type items were found on the campground areas.
- No high explosive munitions were found on the Cuyler Harbor Beach.
- The likelihood exists that there is an undetermined number of military munitions (including UXO) which remain buried or covered by vegetation and were not discovered during the survey. It should be expected that the highest concentration of remaining munitions would be encountered on or near former target areas.
- Following the survey and recovery of munitions (if found) along the trails and commonly used open areas, the risk of encountering UXO in these areas is significantly reduced but not eliminated.
- Risks of encountering UXO in areas not surveyed remains the same as before the survey. Based on the records review documenting past training and testing, it is possible that UXO can be encountered anywhere on the island. In addition, it is possible and likely that UXO exists in shallow offshore waters.
- MPPEH items were previously identified by island study staff but were not documented. Blue flagging tape was observed next to two BDU-33 items.
- It is possible that munitions, including UXO, can be exposed due to erosion or other processes in the future. It should be expected that UXO could potentially be uncovered anywhere on the island (including on or below the trail system).

## 5.2 RECOMMENDATIONS

Based on a review of the available historical island data and the results of the October 2014 UXO survey, the following recommendations are provided:

- The beach area around Cuyler Harbor and other beach areas of lesser public use should be inspected periodically, after major storm events, for the presence of munitions. This recommendation is made because the beaches around the island are very dynamic and historical records identify numerous off-shore targets. Munitions currently off-shore could be washed onto the beach during severe weather events.
- Based on the results of the survey, risks do not appear to preclude the NPS from continuing to manage the natural and cultural resources on the island. It is recommended that all NPS employees and affiliated personnel visiting SMI be trained on the potential risks of encountering UXO as well as how to incorporate UXO avoidance and reporting procedures at all times while performing work on the island.
- Based on the results of the survey, risks do not appear to preclude the public from access to the island for limited visits. It is recommended that the public be escorted at all times by NPS personnel when away from common areas. Also that the public attend a UXO avoidance briefing on the potential risks of encountering UXO as well as how to incorporate UXO avoidance procedures at all times while visiting the island. Non-escorted public access to Cuyler Harbor Beach and the trail from Cuyler Harbor to the Ranger Station could be allowed if additional land use controls, such as warning signs, are put in place.
- It is recommended that land use controls, including dig restrictions incorporating UXO avoidance procedures, be put in place for the entire island.

## 6.0 REFERENCES

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CB&I Federal Services LLC, 2014, *Work Plan, UXO Investigation, San Miguel Island, California*, October.

JRP Historical Consulting LLC, 2010, *Historic Context Study for San Miguel Island*, August.

National Park Service, various dates, *Park Ranger Daily Journal Entries for San Miguel Island*.

Environmental Data Resources, 2014, *Inquiry No. 4090361.1, USGS Large Site, San Miguel Island*, September 30,

Department of Defense Explosives Safety Board, 2004, *Minimum Qualifications for Unexploded Ordnance (UXO) Technicians and Personnel, Department of Defense Explosive Safety Board Technical Paper Number 18*, December 20.

# TABLES

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**TABLE 1**  
**HISTORICAL MILITARY MUNTIONS SUMMARY**  
**UXO SURVEY**  
**SAN MIGUEL ISLAND, CA**

Date	Service/Unit	Training Type	Target	Munition Type
1933	United States Marine Corps (USMC)	Radio outpost for battleship USS Tennessee	No Target	Not Applicable
1937	United States Army (USA)	Target for Railway mounted mobile artillery	San Miguel Island	14 inch guns, 1,400 lb shells
1942	United States Navy (USN)/Aviation	Practice bombing range	Unknown	Unknown
1948	USN/Aviation, United States Air Force (USAF)	Reactivation of practice bombing range. Frequent use. High altitude air-to-ground (ATG).	Offshore, Green Mtn	Unknown
1949	USAF	High altitude ATG	San Miguel Island	4,000 lb light cased bomb
1950	USN/Aviation	ATG	Prince Island	100 lb general purpose (GP) bomb
1950	USAF	Low altitude ATG	Unknown	Inert blue whistler powder charge
1962	USN	Surface-to-surface (STS)	No Target	Polaris Missile system
1963	USA	STS	Unknown	Nuclear capable Sergeant STS
1964	USN/Pacific Missile Range	STS, surface-to-air (STA)	Unknown	Various STS, STA systems
1965	USN, USMC/Aviation	ATG	Barge in Cuyler Harbor, Various other targets	Inert and live Bullpup missile, 250 and 1,000 lb semi-armor piercing warhead
1966	USN/Aviation	ATG	Barge ½ mi off Cardwell pont	Bullpup missile
1966	USN, USMC Aviation	ATG	Onshore and offshore targets. Inflatable targets for Bullpup, SAM sites, tanks, and truck convoy targets	Inert bombs, 20 mm cannon, Bullpup, Zuni, Walleye, Condor, and Nike-Zeus
1970	USN/Aviation	ATG	Eastern portion of island	Bullpup

**TABLE 1**  
**HISTORICAL MILITARY MUNTIONS SUMMARY**  
**UXO SURVEY**  
**SAN MIGUEL ISLAND, CA**

1977	USN/Aviation	ATG	Offshore, 1 mi south of Cardwell Pt	Unknown
1982	Park ranger sighting	Unknown	Hoffman Pt	250 lb GP Bomb
1985	Park ranger sighting	Unknown	¾ mi west Cardwell pt	25 lb practice bomb
1990	Park ranger sighting	Unknown	Unknown	Rocket fragment, flare casing

Notes:

ATG = air-to-ground

GP = general purpose

STA = surface-to-air

STS = surface-to-surface

USA = United States Army

USAF = United States Air Force

USMC = United States Marine Corps

USN = United States Navy

Sources:           Historic Context Study for San Miguel Island, JRP Historical Consulting, 2010  
                       NPS Daily Journal, 1982

**TABLE 2  
DIG LIST  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

Target ID Number	Location Coordinates		Grid Value (millivolts)	Qty.	Item Description	Weight (lbs)	Depth (inches)	Removed (yes/no)	Comments
	East	North							
<b>Airstrip East Targets</b>									
3	744883.2	3769302.6	127.5	1	Pipe		6	No	Left in place
43	744689.4	3769486.2	190.8	1	Tire/concrete/rebar Tiedown		0	No	Left in place in runway
70	744625.2	3769548.6	13.8	1	Steel bar	0.35	8	Yes	
72	744611.4	3769555.2	12.4		No find				
74	744612.6	3769560	14.1	4	Brass casings		1	Yes	
79	744603.6	3769565.4	73.6	1	T-post		4	No	Left in place
82	744594.6	3769570.8	28	1	T-post	0.5	4	Yes	Left some in place
84	744525.6	3769574.4	49.7	1	Rebar	0.5	1	Yes	Just under surface
85	744605.4	3769574.4	48.5	1	Pipe half inch	0.25	1	Yes	
87	744522	3769575.6	26.1	15	Nails	0.25	2	Yes	All surrounding flag area
88	744516.6	3769576.8	12.3	1	Rebar	0.5	1	Yes	Just under surface
95	744585	3769587	25.2	1	Aircraft buckle	0.5	2	Yes	
96	744507.6	3769591.8	793.6	1	Steel picnic table frame		0	No	Left in place
97	744511.8	3769593	251.8	1	Ranger Station Flag Pole		0	No	Left in place
98	744576.6	3769596	4102.6	1	Marston matting	8	1	Yes	
100	744567	3769602.6	16	1	Nail	0.1	0	Yes	
101	744542.4	3769638	25.7	1	Wrench	0.25	4	Yes	
103	744523.2	3769644.6	49.6	1	Rebar	1	1	Yes	
106	744574.56	3769595.2	34.4		ass. w/ Marston matting				
107	744575.21	3769594.6	33.3		ass. w/ Marston matting				
108	744575.94	3769594	50.4		ass. w/ Marston matting				
109	744576.61	3769593.5	50.1	1	Marston matting	2	2	Yes	
110	744611.42	3769580.2	46.7	2	Hold down stakes	1	1	Yes	
112	744618.71	3769557.3	114.6	1	Pipe exposed on surface	3	0	Yes	
116	744664.12	3769513.8	39.3		ass. with 117				
117	744665.28	3769512.8	48.6	1	Sign pipe 2"	20	2	Yes	
124	744747.54	3769436.3	13.1	1	Pipe over 24" deep		24	No	Left in place
128	744832.31	3769354.3	6904.4	1	Marston matting		1	No	Left in place
135	744876.07	3769288.2	31.7	1	Rebar		2	Yes	



**TABLE 2  
DIG LIST  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

Target ID Number	Location Coordinates		Grid Value (millivolts)	Qty.	Item Description	Weight (lbs)	Depth (inches)	Removed (yes/no)	Comments
	East	North							
<b>Airstrip West Targets</b>									
2	739079.4	3769861.8	55.8		No find				
4	738880.8	3769969.2	20.9	3	Nails	0.15	0	Yes	
5	738880.8	3769982.4	17.2	1	Bolt	0.01	0	Yes	
6	738921.6	3769983.6	27.6		No find				
10	738920.26	3769983	14.6	1	Bolt	0.01	0	Yes	
<b>Caliche Forest Trail Targets</b>									
7	742306.3	3769145.9	14.9	1	Rock			No	Boulder above ground
<b>Campground Targets</b>									
4	744700.8	3769755.6	23	1	Fence		0	No	
12	744716.8	3769820.2	31.5	1	Tent stake	0.15	2	Yes	
13	744715.8	3769821.2	36.4	1	Tent stake	0.15	2	Yes	
17	744716.4	3769822.6	17.8	2	Tent stake	0.3	2	Yes	
18	744714.2	3769824	39	1	Tent stake	0.15	2	Yes	
22	744751.2	3769826.6	25.1	1	Staple	0.25	1	Yes	
23	744752.4	3769827.6	35.2	1	Nail	0.15	3	Yes	
28	744689	3769830.2	25.9	1	Tent stake	0.15	1	Yes	
29	744773.4	3769834.6	13.8	1	Tent stake	0.15	1	Yes	
30	744766.8	3769835.6	23.5	1	Tent stake	0.15	1	Yes	
32	744729.4	3769838.8	12.2	1	Tent stake	0.15	1	Yes	
33	744716.8	3769844.4	30.2	1	Bobby pin	0.01	1	Yes	
35	744539.6	3769896.6	22.5						Cultural area no dig
37	744542	3769908.8	147.2						Cultural area no dig
38	744546.2	3769925.2	24.6						Cultural area no dig
41	744723.43	3769796.1	92.7	1	Chain	5	2	Yes	
42	744729.1	3769834	25		Same hit as 43				
43	744728.91	3769833.7	38.6	1	Tent stake	0.15	1	Yes	
45	744716.67	3769829.1	13.7	1	Fence			No	Left in place
48	744696.6	3769849.9	14.5		Paper clip/bolt	0.01	1	Yes	
50	744692.45	3769845.7	14.7	1	Wire			No	Left in place

**TABLE 2  
DIG LIST  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

Target ID Number	Location Coordinates		Grid Value (millivolts)	Qty.	Item Description	Weight (lbs)	Depth (inches)	Removed (yes/no)	Comments
	East	North							
51	744690.44	3769846.9	23.4	1	Wire			No	Left in place
53	744683.45	3769849.4	17.6	1	Wire			No	Left in place
54	744678.22	3769853.4	13.1	1	Wire			No	Left in place
55	744677.52	3769854.3	30.3	1	Wire			No	Left in place
56	744676.46	3769855.5	25.6	1	Wire			No	Left in place
57	744643.53	3769881.8	16.7	1	Cultural metal		1.25	No	Left in place
58	744638.75	3769885	58.5	3	Fence wire			No	Left in place
59	744637.74	3769886.2	31.2	1	Fence wire			No	Left in place
60	744636.35	3769887.8	55.8	1	Fence wire			No	Left in place
61	744634.79	3769889	33.1	3	Fence wire			No	Left in place
64	744542.25	3769910.6	18.2						Cultural area no dig
65	744539.31	3769891.6	41.1						Cultural area no dig
67	744568.21	3769742.7	18.9						Cultural area no dig
68	744595.3	3769712.2	17.2						Cultural area no dig
69	744623.54	3769686.1	128.3						Cultural area no dig
70	744624.38	3769680.3	41.3						Cultural area no dig
72	744622.9	3769665.8	121.1						Cultural area no dig
73	744623.26	3769654.8	37.2						Cultural area no dig
75	744625.57	3769638.9	12.9						Cultural area no dig
77	744605.91	3769574.7	79.9	1	Latch	0.25	3	Yes	
<b>Cuyler Harbor Beach Targets</b>									
6	744612	3770449.2	106.4		No find				
10	744369.6	3770459.4	39.5	1	Post with bolt	24		No	Left in place
16	744303.6	3770506.8	38.1		No find				
20	744282.6	3770515.8	15.8	1	Tie rod w/concrete	28		No	Left in place
20	744282.6	3770515.8	15.8	1	Tire w/concrete	28		No	Left in place
23	744258.6	3770524.8	28.6		No find				
24	744215.4	3770555.4	34.1		Matches shipwreck coordinate				
25	744233.95	3770528.6	28.34	1	Beer can	2	0.25	Yes	
26	744276.61	3770508.6	15		No find				

**TABLE 2  
DIG LIST  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

Target ID Number	Location Coordinates		Grid Value (millivolts)	Qty.	Item Description	Weight (lbs)	Depth (inches)	Removed (yes/no)	Comments
	East	North							
27	744358.9	3770478.4	70.5	1	Unidentified metal structure	18		No	Left in place
28	744782	3770432	14.9		No find				
29	744822	3770436	19.3		No find				
30	744794	3770438	12.2		No find				
32	744902	3770438	13.5		Underwater				
33	744852	3770444	13.9		Underwater				
34	744870	3770444	28.4		Underwater				
36	744842	3770446	33.3		Underwater				
37	744920	3770446	23.4		Underwater				
38	744944	3770446	16.2		Underwater				
39	744790	3770448	15		Underwater				
40	744970	3770450	20.4		Underwater				
41	744930	3770452	24.1		Underwater				
42	744766	3770460	45.5		Underwater				
<b>Fox Pens 1 Trail Targets</b>									
1	744957.7	3769268.7	38.9	1	Sign		0	No	Left in place
2	744957.71	3769268.7	38.9		Sign		0	No	Left in place
4	745004.65	3769305.8	51.4	1	Fence		0	No	Left in place
5	745260.52	3769491.5	10.8	1	Wire	0.15	1	Yes	
6	745286.29	3769518.6	168.3	1	Fence		0	No	Left in place
<b>Green Mtn to West Airstrip Targets</b>									
1	741510.6	3769338	7.22		No find				Solid rock
10	741445.49	3769314.7	7.77		No find				Solid rock
32	741308.68	3769274.9	7.55		No find				Solid rock
39	741254.93	3769242.6	8.05		No find				Solid rock
45	741223.96	3769223	7.6		No find				Solid rock
77	740864.83	3769003.1	7.93		No find				Solid rock
82	740805.43	3769003.4	7.83		No find				Solid rock
84	740797.71	3769004.3	8.27		No find				Solid rock
85	740792.77	3769004.6	19.26		No find				Solid rock

**TABLE 2  
DIG LIST  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

Target ID Number	Location Coordinates		Grid Value (millivolts)	Qty.	Item Description	Weight (lbs)	Depth (inches)	Removed (yes/no)	Comments
	East	North							
87	740772.22	3769006	9.25		No find				Solid rock
90	740707.78	3769004.5	155.94	1	Tie rod	5	1	No	cultural debris
91	740660.49	3768995.4	8.41		No find				Solid rock
134	739284.55	3769465.3	12.8	1	Lens filter	0.01	1	Yes	
142	739205.25	3769575.5	7.52		No find				Solid rock
143	739180.77	3769607.9	8.49		No find				Solid rock
145	739175.09	3769615.4	23.39	1	Metal rod with eye		2	No	Left in place
150	739141.27	3769642.8	7.88		No find				Solid rock
160	739076.46	3769693.9	10.86		No find				Solid rock
167	739009.37	3769793.5	5		No find				Solid rock
176	738833.87	3769878.7	7.9		No find				Solid rock
<b>Ranger Station to Green Mtn Intersection Targets</b>									
1	744584.31	3769436.1	16.6		No find				Solid rock
2	744521.07	3769268	12.5	1	Sign			No	Solid rock
3	744256.11	3769072.3	29.1	1	Scrap metal	0.5	2	Yes	Solid rock
4	743947.79	3769040.5	4.1	2	Nails	0.15	2	Yes	Solid rock
5	743803.45	3769012.4	3.2		No find				Solid rock
6	743793.46	3769013.4	9		No find				Solid rock
7	743713.52	3769021.6	2.74	1	Pin flag	0.15	2	Yes	Solid rock
8	743506.05	3768970.9	5.2		No find				Solid rock
9	743384.34	3768946.8	3.4		No find				Solid rock
10	743284.69	3768914.1	4.5		No find				Solid rock
11	743258.31	3768908.2	3.8		No find				Solid rock
12	743161.28	3768888.8	3.4		No find				Solid rock
13	743147.98	3768885.4	4.5		No find				Solid rock
14	742778.79	3768870.4	3.2		No find				Solid rock
15	742470.09	3768930.9	5.1		No find				Solid rock
16	742448.06	3768933.8	4.3		No find				Solid rock
17	742338.96	3768943	4.4		No find				Solid rock
18	742237.6	3768946.4	7.1		No find				Solid rock

**TABLE 2  
DIG LIST  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

Target ID Number	Location Coordinates		Grid Value (millivolts)	Qty.	Item Description	Weight (lbs)	Depth (inches)	Removed (yes/no)	Comments
	East	North							
19	742114.7	3768938.4	3.4	2	No find		0	No	Solid rock
20	742090.9	3768936.4	3.4		No find				Solid rock
21	741956.53	3768945.9	4		No find				Solid rock
22	741881.6	3769012.7	9.7		Rebar				Solid rock
23	741391.6	3769308	37.5		Solid rock				
<b>West Airstrip to NOAA Station Targets</b>									
3	737284.6	3768470.8	12.1	4	No find			No	Solid rock
7	737148.4	3768501.2	19.4		No find				Solid rock
8	737145.4	3768501.8	13.2		No find				Solid rock
18	736919.8	3768641.8	11.9		No find				Solid rock
48	738534.51	3769702.9	10		No find				Solid rock
50	738524.37	3769695.2	15.5		No find				Solid rock
52	738489.38	3769665.8	10.2		No find				Solid rock
71	738338.91	3769518.3	11.5		No find				Solid rock
77	738300.98	3769483.2	6.1		No find				Solid rock
80	738269.83	3769456.4	10.1		No find				Solid rock
84	738240.52	3769431.9	14.5		No find				Solid rock
85	738235.77	3769427.8	10		No find				Solid rock
95	738181.97	3769380.1	9.3		No find				Solid rock
104	738055.53	3769266.6	35.9		Fox cage				Leica
139	737584.69	3768893.8	10.1		No find				Solid rock
162	737420.64	3768666.5	11.7		No find				Solid rock
177	737331.14	3768521.7	15.3		No find				Solid rock
178	737328.06	3768516.7	8.8		No find				Solid rock
179	737326.23	3768514	15.4		No find				Solid rock
185	737302.36	3768480.3	19.6		No find				Solid rock
186	737299.14	3768477.4	10.1	No find	Solid rock				
198	737172.2	3768495.2	10.1	No find	Solid rock				

**TABLE 3  
MUNITIONS LOG  
UXO SURVEY  
SAN MIGUEL ISLAND, CA**

<b>Date</b>	<b>Item</b>	<b>Depth Found</b>	<b>Condition</b>	<b>Disposition</b>	<b>Location found</b>	<b>Northing</b>	<b>Easting</b>	<b>Notes</b>
10/05/14	Flare Canister MK 45	surface	empty/MDAS	ranger station	ranger station	Not recorded	Not recorded	found at ranger station
10/07/14	Flare Canister end plate MK 24	surface	inert/MDAS	ranger station	fox observation trail off cardwell point trail	6161192.506	1167342.096	
10/08/14	Practice bomb MK 106	surface	empty/MDAS	ranger station	plateau near Cardwell point	6161068.212	1165138.153	
10/08/14	Practice bomb BDU-33	surface	empty/MDAS	ranger station	plateau near Cardwell point	6161903.899	1164662.455	
10/08/14	BDU-33 tail fins	6"	empty/MDAS	ranger station	plateau near Cardwell point	6160219.669	1164778.165	
10/10/14	Marine Marker MK25	surface	empty/MDAS	ranger station	plateau above Cuyler beach	6151383.984	1174838.732	
10/20/14	unidentified fuze like object	3"	empty/MDAS	ranger station	Crook Point craters	6148380.185	1163794.333	
10/21/14	Flare Canister MK 24	surface	empty/MDAS	ranger station	North of Cardwell Point trail	6159122.538	1168365.245	
10/23/14	Practice bomb BDU-33	8"	empty/MDAS	ranger station	East end of Cardwell Point	6163678.126	1165022.443	
10/23/14	Practice bomb BDU-33	12"	empty/MDAS	ranger station	East end of Cardwell Point	6163703.840	1165131.725	
10/27/14	Practice bomb 100 lb MK15 MOD3	24"	empty/MDAS	Left in Place	Jack Ass Flats W of Green Mountain	6139365.889	1172217.269	
10/28/14	Practice bomb BDU-33	surface	MPPEH	ranger station	plateau near Cardwell point	6161261.063	1164926.018	spotting charge present

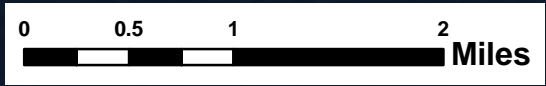
# FIGURES

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REV	DATE	BY	CHK'D	APRVD

	DESIGNED BY:	B Hodges	CHECKED BY:	D. Pringle
	DRAWN BY:	B Hodges	APPROVED BY:	D. Pringle

	SAN MIGUEL ISLAND SANTA BARBARA COUNTY, CA	
	SITE LOCATION MAP	

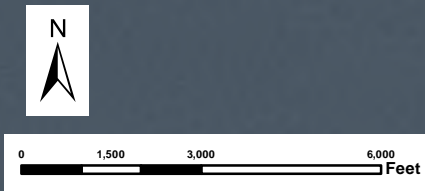
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TASK ORDER NO.			
XXXX			
CONSTR. CONTRACT NO.			
N62473-10-D-4009			
NAVFAC Drawing No			
NA			

**FIGURE 1**



**Legend - 2013 Aerial**

- Control-San Miguel Island
- Crater



REV	DATE	BY	CHK'D	APRVD

	DESIGNED BY:	B Hodges	CHECKED BY:	Rich Ricks
	DRAWN BY:	B Hodges	APPROVED BY:	D. Pringle

	SAN MIGUEL ISLAND SANTA BARBARA COUNTY, CA
	SITE LAYOUT

SCALE	AS SHOWN	SIZE	11x17
TASK ORDER NO. XXXX			
CONSTR. CONTRACT NO. N62473-10-D-4009			
NAVFAC Drawing No NA			

**FIGURE 2**



**Legend - 2013 Aerial**

- ▲ MPPEH Item Discovered
- ▲ Ordnance Item Discovered
- Control-San Miguel Island
- ☆ Crater
- EM61 Path
- High Use Area



REV	DATE	BY	CHK'D	APRVD

	DESIGNED BY:	B Hodges	CHECKED BY:	Rich Ricks
	DRAWN BY:	B Hodges	APPROVED BY:	D. Pringle

	SAN MIGUEL ISLAND SANTA BARBARA COUNTY, CA	
	EM61 PATH LOCATION MAP	

SCALE	AS SHOWN
SIZE	11x17
TASK ORDER NO. XXXX	
CONSTR. CONTRACT NO. N62473-10-D-4009	
NAVFAC Drawing No NA	











**FIGURE 3**

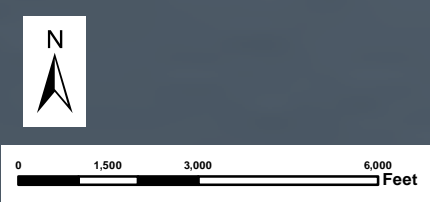







**Legend - 2013 Aerial**

-  MPPEH Item Discovered
-  Ordnance Item Discovered
-  Control-San Miguel Island
-  Crater
-  Fox Monitoring
-  Landbird
-  Veg Monitoring
-  Metal Detector Transects Investigated
-  EM61 Path
-  High Use Area



REV	DATE	BY	CHK'D	APRVD

	DESIGNED BY:	B Hodges	CHECKED BY:	Rich Ricks
	DRAWN BY:	B Hodges	APPROVED BY:	D. Pringle

	SAN MIGUEL ISLAND SANTA BARBARA COUNTY, CA		ALL DATA

SCALE	AS SHOWN	SIZE	11x17
TASK ORDER NO.	XXXX		
CONSTR. CONTRACT NO.	N62473-10-D-4009		
NAVFAC Drawing No	NA		

**FIGURE 5**

# APPENDIX A

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## *Photographic Documentation*

## APPENDIX A

### PHOTOGRAPHIC DOCUMENTATION LOG

<u>Photograph</u>	<u>Description</u>
1	Mobilization to San Miguel Island
2	Impact crater southwest of Green Mountain
3	Impact crater west of Cardwell Point
	<b><u>UXO Investigation</u></b>
4	UXO survey along trail
5	UXO survey along trail
6	UXO survey along trail
7	UXO survey in erosion channel
8	UXO survey in erosion channel
9	UXO team with GPS tracking
10	UXO team with GPS tracking
11	UXO transect team
	<b><u>Subsurface Investigation</u></b>
12	IVS seed - horizontal
13	IVS seed - vertical
14	Survey benchmark
15	GPS base station set up
16	EM61 set up
17	EM61 along trail to NOAA station
18	EM61 in heavy vegetation area
19	EM61 carrying unit along trail
20	EM61 modified for narrow trails
21	IVS seed on beach
22	EM61 survey on beach
23	EM61 transects on beach
24	Cuyler Harbor Beach subsurface investigation
25	GPS rover for target reacquisition
26	Personnel heading to benchmark at Harris Point
	<b><u>Anomalies, MEC/MPPEH, MD</u></b>
27	Miscellaneous metal debris – Homestead artifacts
28	Miscellaneous metal debris – pipeline
29	Miscellaneous metal debris – wire rope
30	BDU 33 practice bomb
31	BDU 33 practice bomb
32	BDU 33 practice bomb
33	BDU 33 practice bomb

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<b><u>Photograph</u></b>	<b><u>Description</u></b>
34	BDU 33 practice bomb with blue ribbon and spotting charge
35	BDU 33 tail fin in subsurface
36	BDU 33 tail fin
37	Mk 106 practice bomb
38	Mk 15 100 lb practice bomb (left in place)
39	Unidentified fuze-like object
40	Mk 25 flare canister
41	Mk 25 Marine marker
42	Bomb fragment
	<b><u>Demobilization</u></b>
43	Airplane approaching landing strip
44	Loading plane for demobilization
45	Sunset on San Miguel Island





Photograph 1 Mobilization to San Miguel Island



Photograph 2 Impact crater southwest of Green Mountain





Photograph 3 Impact crater west of Cardwell Point



Photograph 4 UXO survey along trail





Photograph 5 UXO survey along trail



Photograph 6 UXO survey along trail



Photograph 7 UXO survey in erosion channel



Photograph 8 UXO survey in erosion channel





Photograph 9 UXO team with GPS tracking



Photograph 10 UXO team with GPS tracking





Photograph 11 UXO transect team



Photograph 12 IVS seed - horizontal



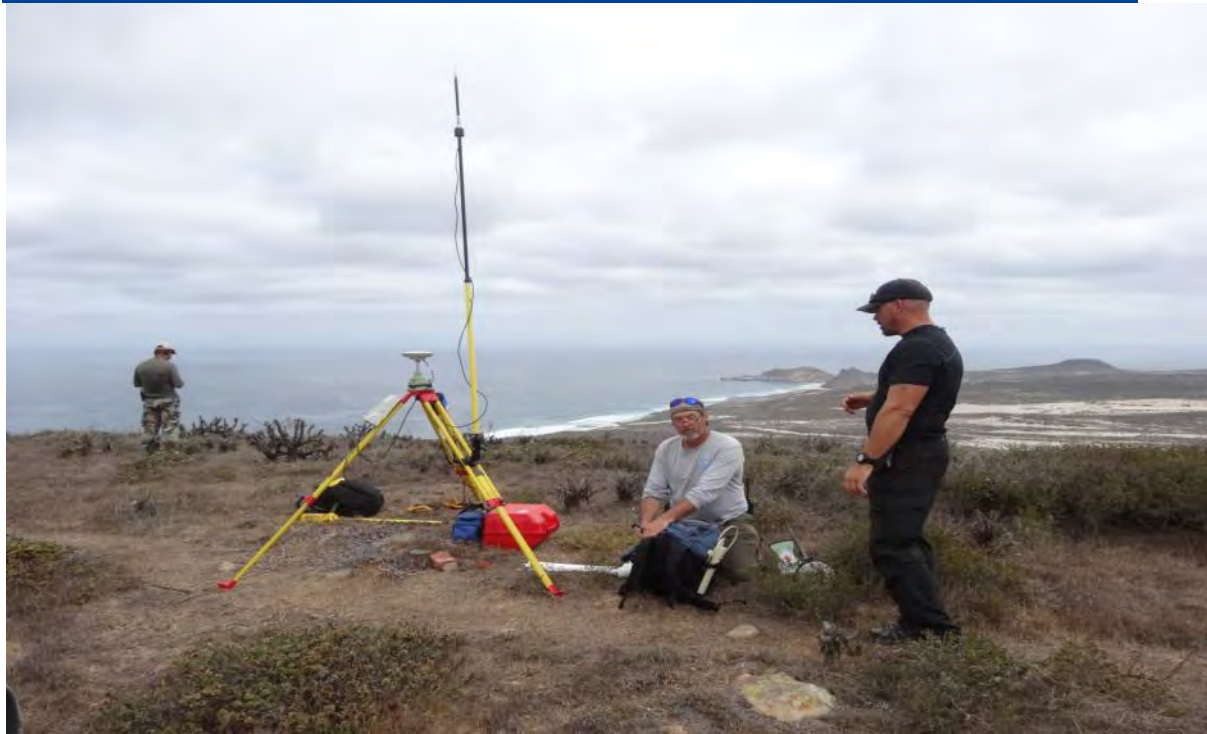


Photograph 13 IVS seed - vertical



Photograph 14 Survey benchmark





Photograph 15 GPS base station set up



Photograph 16 EM61set up



Photograph 17 EM61 along trail to NOAA station



Photograph 18 EM61 in heavy vegetation area





Photograph 19 EM61 carrying unit along trail



Photograph 20 EM61 modified for narrow trails



Photograph 21 IVS seed on beach



Photograph 22 EM61 survey on beach





Photograph 23 EM61 transects on beach



Photograph 24 Cuyler Harbor Beach subsurface investigation



Photograph 25 GPS rover for target reacquisition



Photograph 26 Personnel heading to benchmark at Harris Point





Photograph 27 Miscellaneous metal debris – Homestead artifacts



Photograph 28 Miscellaneous metal debris – pipeline





Photograph 29 Miscellaneous metal debris – wire rope



Photograph 30 BDU-33 practice bomb





Photograph 31 BDU-33 practice bomb



Photograph 32 BDU-33 practice bomb





Photograph 33 BDU-33 practice bomb



Photograph 34 BDU-33 practice bomb with blue ribbon and spotting charge





Photograph 35 BDU-33 tail fin in subsurface



Photograph 36 BDU-33 tail fin





Photograph 37 Mk 106 practice bomb



Photograph 38 Mk 15 100 lb practice bomb (left in place)





Photograph 39 Unidentified fuze-like object



Photograph 40 Mk 25 flare canister





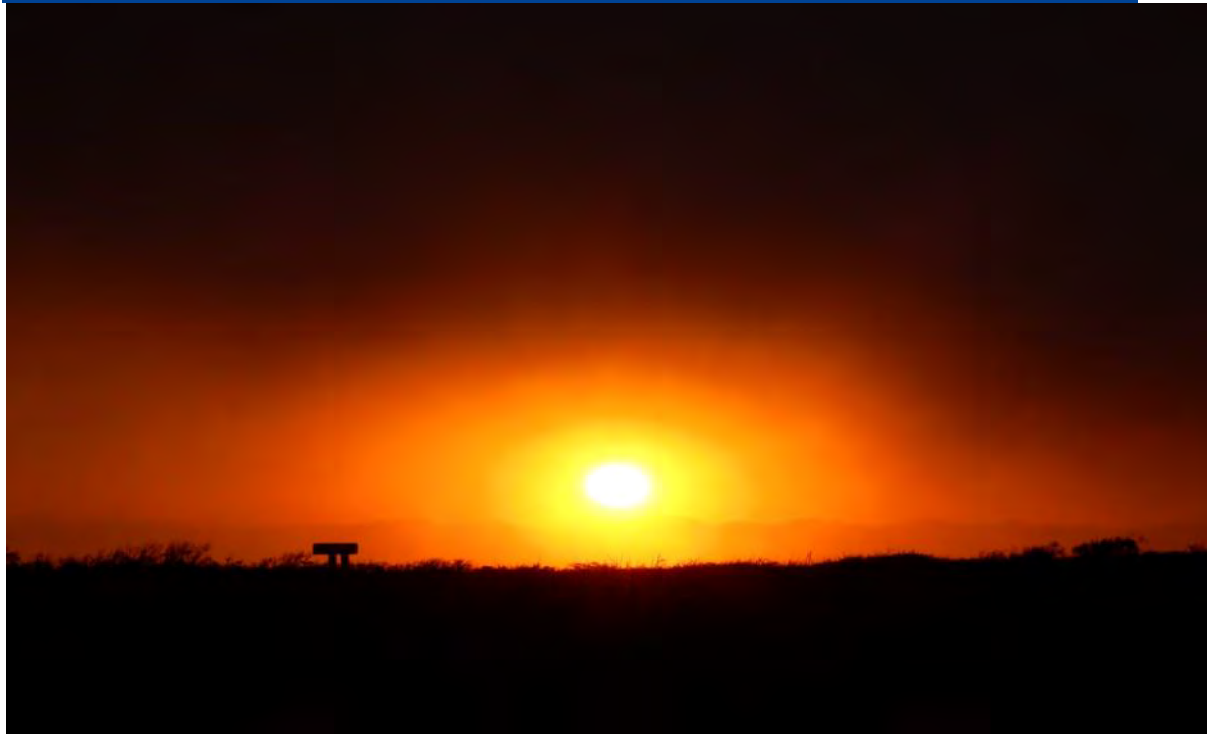




Photograph 43 Airplane approaching landing strip



Photograph 44 Loading plane for demobilization



Photograph 45 Sunset on San Miguel Island

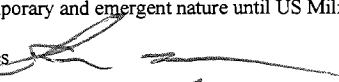

# APPENDIX B

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## *Material Documentation*

**DD FORM 1348-1A**



1	2	3	4	5	6	7	23	24	25	26	27	28	29	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																																																						
24. DOCUMENT NUMBER & SUFFIX (80-44)													25. NATIONAL STOCK NO. & ADD (8-22)													26. PIC (4-6) QTY (25-34) CON CODE (71) DIST (65-66) UP (74-80)													1. TOTAL PRICE													2. SHIP FROM													3. SHIP TO																																						
UNIT PRICE													DOLLARS													CTS													CB&I Federal Services													US National Park Service San Miguel Island Ranger Station,																																																			
DOLLARS													CTS													4. MARK FOR													5. DOC DATE													6. NMFC													7. FRT RATE													8. TYPE CARGO													9. PS												
10302014																																																																																																							
10. QTY. REC'D													11. UP													12. UNIT WEIGHT													13. UNIT CUBE													14. UFC													15. SL																																						
16. FREIGHT CLASSIFICATION NOMENCLATURE																																																																																																							
17. ITEM NOMENCLATURE																																																																																																							
MPPEH practice bomb, BDU-33 w/ spotting cartridge																																																																																																							
18. TY CONT													19. NO CONT													20. TOTAL WEIGHT													21. TOTAL CUBE																																																																
													1													25													1																																																																
22. RECEIVED BY																										23. DATE RECEIVED																																																																													
27. ADDITIONAL DATA																																																																																																							
<p>The material listed on this form has been inspected and processed by DDESB- approved means, as required by DOD policy, and is believed to pose an explosive hazard. Transfer of custody of this material is of a temporary and emergent nature until US Military EOD services can be provided.</p> <p>Shawn Meyer, SUXOS CB&amp;I Federal Services </p> <p>Richard Ricks, UXOQC CB&amp;I Federal Services </p>																																																																																																							

PREVIOUS EDITION MAY BE USED



# APPENDIX C

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## *Health and Safety Documentation*

# TAILGATE SAFETY MEETING/ EXCLUSION ROSTER

DIVISION / SUBSIDIARY : CB&I Federal Services FACILITY : San Miguel Island

Date: 10/6/14 TIME : JOB NUMBER: 500265

CUSTOMER : NAVFAC SW

SPECIFIC LOCATION : San Miguel Island

TYPE OF WORK : UXO Investigation

CHEMICALS USED : NONE

## SAFETY TOPICS PRESENTED

SAFETY TOPICS : WEATHER, UXO ITEMS & PROCEDURES, TENALIN-SLIPS TRIPS FALLS  
SAFE HAVEN & EVACUATION PROCEDURES

PROTECTIVE CLOTHING/EQUIPMENT : LEVEL D PPE

CHEMICAL HAZARDS : NONE PRESENT

PHYSICAL HAZARDS : SLIPPER & TRIPPER - SMALL ROUND STONES, CRACKS IN GROUND

## EMERGENCY PROCEDURES :

HOSPITAL : St. Johns Pleasant Valley Hospital PHONE : 805-389-5800 ADDRESS : 2309 Antonio Ave, Camarillo, CA 93010  
CLINIC : U.S. Healthworks PHONE : 805-983-2234 ADDRESS : 1851 N. Lombard St, Suite 100, Oxnard, CA 93030

## SPECIAL EQUIPMENT :

SPECIAL INSTRUCTIONS: Call the CB&I Hot Line within the hour for any vehicle accident no matter how minor or an injury requiring off-site treatment. 866-299-3445

Work Activity: MTK GPS SETUP, UXO SURFACE SWEEP.





# TAILGATE SAFETY MEETING/ EXCLUSION ROSTER

DIVISION / SUBSIDIARY : CB&I Federal Services FACILITY : San Miguel Island

Date: 10/7/14 TIME : 0730 JOB NUMBER: 500265

CUSTOMER : NAVFAC SW

SPECIFIC LOCATION : San Miguel Island

TYPE OF WORK : UXO Investigation

CHEMICALS USED : NONE

## SAFETY TOPICS PRESENTED

SAFETY TOPICS : UXO SAFETY , SLIPS TRIPS FALLS , BUDDY SYSTEM , RADIO USE , HOT WEATHER.

PROTECTIVE CLOTHING/EQUIPMENT : LEVEL D, LONG SLEEVES, HIGH VIS

CHEMICAL HAZARDS : NONE

PHYSICAL HAZARDS : SMKE NIKE, ROUGH TERRAIN

## EMERGENCY PROCEDURES :

HOSPITAL : St. Johns Pleasant Valley Hospital PHONE : 805-389-5800 ADDRESS : 2309 Antonio Ave, Camarillo, CA 93010  
CLINIC: U.S. Healthworks PHONE : 805-983-2234 ADDRESS : 1851 N. Lombard St, Suite 100, Oxnard, CA 93030

## SPECIAL EQUIPMENT :

SPECIAL INSTRUCTIONS: Call the CB&I Hot Line within the hour for any vehicle accident no matter how minor or an injury requiring off-site treatment. 866-299-3445

Work Activity: 8 UXO SURFACE SWEEP / DGIM DATA COLLECTION.





# TAILGATE SAFETY MEETING/ EXCLUSION ROSTER

DIVISION / SUBSIDIARY : CB&I Federal Services FACILITY : San Miguel Island

Date: 10/8/11 TIME : 0730 JOB NUMBER: 500265

CUSTOMER : NAVFAC SW

SPECIFIC LOCATION : San Miguel Island

TYPE OF WORK : UXO Investigation

CHEMICALS USED : NONE

## SAFETY TOPICS PRESENTED

SAFETY TOPICS : UXO HAZARDS, WEATHER, BUDD/ SYSTEM, COMMUNICATIONS, SLIPS/TRIPS/FALLS

PROTECTIVE CLOTHING/EQUIPMENT : LEVED, HIGH VIS LONG SLEEVES

CHEMICAL HAZARDS : NONE

PHYSICAL HAZARDS : ROUGH TERRAIN, SHARP METAL

## EMERGENCY PROCEDURES :

HOSPITAL : St. Johns Pleasant Valley Hospital PHONE : 805-389-5800 ADDRESS : 2309 Antonio Ave, Camarillo, CA 93010  
CLINIC : U.S. Healthworks PHONE : 805-983-2234 ADDRESS : 1851 N. Lombard St, Suite 100, Oxnard, CA 93030

## SPECIAL EQUIPMENT :

SPECIAL INSTRUCTIONS: Call the CB&I Hot Line within the hour for any vehicle accident no matter how minor or an injury requiring off-site treatment. 866-299-3445

Work Activity: UXO SURFACE SWEEP, DGM DATA RECORDING







# TAILGATE SAFETY MEETING/ EXCLUSION ROSTER

DIVISION / SUBSIDIARY : CB&I Federal Services FACILITY : San Miguel Island  
Date: 10/9/14 TIME : 0730 JOB NUMBER: 500265  
CUSTOMER : NAVFAC SW  
SPECIFIC LOCATION : San Miguel Island  
TYPE OF WORK : UXO Investigation  
CHEMICALS USED : NONE

## SAFETY TOPICS PRESENTED

SAFETY TOPICS : UXO SAFETY, SLIPS TRIPS FALLS, MANUAL LIFTING

PROTECTIVE CLOTHING/EQUIPMENT : LEVEL D HIGH VIS LONG SLEEVES

CHEMICAL HAZARDS : NONE

PHYSICAL HAZARDS : RUGGED STEEP TERRAIN. WATER & ROCKS

## EMERGENCY PROCEDURES :

HOSPITAL : St. Johns Pleasant Valley Hospital PHONE : 805-389-5800 ADDRESS : 2309 Antonio Ave, Camarillo, CA 93010  
CLINIC : U.S. Healthworks PHONE : 805-983-2234 ADDRESS : 1851 N. Lombard St, Suite 100, Oxnard, CA 93030

## SPECIAL EQUIPMENT :

SPECIAL INSTRUCTIONS: Call the CB&I Hot Line within the hour for any vehicle accident no matter how minor or an injury requiring off-site treatment. 866-299-3445

Work Activity: UXO TRANSECTS, DGM SURVEY







# TAILGATE SAFETY MEETING/ EXCLUSION ROSTER

DIVISION / SUBSIDIARY : CB&I Federal Services FACILITY : San Miguel Island

Date: 10/10/14 TIME: 0730 JOB NUMBER: 500265

CUSTOMER : NAVFAC SW

SPECIFIC LOCATION : San Miguel Island

TYPE OF WORK : UXO Investigation

CHEMICALS USED : NONE

## SAFETY TOPICS PRESENTED

SAFETY TOPICS : UXO SAFETY, SLIPS TRIPS FALLS, MANUAL LIFTING, HOT WEATHER

PROTECTIVE CLOTHING/EQUIPMENT : LEVEL D, HIGH VS LONG SLEEVES

CHEMICAL HAZARDS : NONE

PHYSICAL HAZARDS : RUGGED STEEP TERRAIN, MOUSE DROPPINGS

## EMERGENCY PROCEDURES :

HOSPITAL : St. Johns Pleasant Valley Hospital PHONE : 805-389-5800 ADDRESS : 2309 Antonio Ave, Camarillo, CA 93010  
CLINIC : U.S. Healthworks PHONE : 805-983-2234 ADDRESS : 1851 N. Lombard St, Suite 100, Oxnard, CA 93030

## SPECIAL EQUIPMENT :

SPECIAL INSTRUCTIONS: Call the CB&I Hot Line within the hour for any vehicle accident no matter how minor or an injury requiring off-site treatment. 866-299-3445

Work Activity: UXO TRAJECTS, DGM SURVEY







**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date:

*10/13/14*

Date Revised:

Project name: San Miguel Island (SMI)		<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC		
Preparer(s): Shawn Meyer		
<u>EMERGENCY INFO (list below or attach)</u> Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)		Supervisor: <i>[Signature]</i> Initials: Time of inspection: <i>7:30</i> Comments:
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.		
<b>PRINCIPLE TASKS, STEPS</b>	<b>POTENTIAL HEALTH/SAFETY HAZARDS</b>	<b>RECOMMENDED CONTROLS</b>
Surface sweep, DGM Survey and Mag/Dig	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Power/ Hand tools	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
Schoenstadt	Daily prior to use	UXO certification
EM-61	Daily prior to use	
Tailgate Safety Meeting Conducted by: Shawn Meyer		Date: 10/13/14 Time: 0730
<b>OTHER TOPICS DISCUSSED:</b>	<b>ATTENDEES' Printed Names</b>	<b>ATTENDEES' Signatures</b>
Buddy system	Shawn Meyer	<i>[Signature]</i>
Radio communications	Mark Kick	<i>[Signature]</i>
	Richard Ricks	<i>[Signature]</i>
	Joel Sivertsen	<i>[Signature]</i>



**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date:

Date Revised:

*10/4/14*

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor: <i>SM</i> Initials: Time of inspection: <i>0730</i> Comments:
<u>EMERGENCY INFO (list below or attach)</u> Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	

Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.

PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, DGM Survey and Mag/Dig	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.

EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
Schoenstadt	Daily prior to use	UXO certification
EM-61	Daily prior to use	

Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/14/14 Time: 0730

OTHER TOPICS DISCUSSED:	ATTENDEES' Printed Names	ATTENDEES' Signatures
Buddy system	Shawn Meyer	<i>Shawn Meyer</i>
Radio communications	Mark Kick	<i>Mark Kick</i>
	Richard Ricks	<i>Richard Ricks</i>
	Joel Sivertsen	<i>Joel Sivertsen</i>





**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
**COMBINATION FORM**

JOB#:

JSA Date: 10/16/14

Date Revised:

Project name: San Miguel Island (SMI)		<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC		
Preparer(s): Shawn Meyer		Supervisor: Initials: Time of inspection: 7:30 Comments:
<b>EMERGENCY INFO (list below or attach)</b> Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)		
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.		
<b>PRINCIPLE TASKS, STEPS</b>	<b>POTENTIAL HEALTH/SAFETY HAZARDS</b>	<b>RECOMMENDED CONTROLS</b>
Surface sweep, DGM Survey and Mag/Dig	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
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	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Power/ Hand tools	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
Schonstedt	Daily prior to use	UXO certification
EM-61	Daily prior to use	
Tailgate Safety Meeting Conducted by: Shawn Meyer		Date: 10/15/14 Time: 0730
<b>OTHER TOPICS DISCUSSED:</b>	<b>ATTENDEES' Printed Names</b>	<b>ATTENDEES' Signatures</b>
Buddy system	Shawn Meyer	
Radio communications	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	

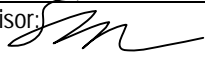
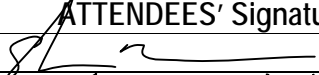

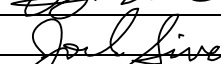
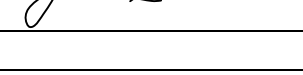


**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date: 10/16/14

Date Revised:

Project name: San Miguel Island (SMI)		<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC		
Preparer(s): Shawn Meyer		
<u>EMERGENCY INFO (list below or attach)</u> Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)		Supervisor:  Initials: Time of inspection: 7:30 Comments:
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.		
<b>PRINCIPLE TASKS, STEPS</b>	<b>POTENTIAL HEALTH/SAFETY HAZARDS</b>	<b>RECOMMENDED CONTROLS</b>
Surface sweep, DGM Survey and Mag/Dig	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Power/ Hand tools	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
Schonstedt	Daily prior to use	UXO certification
EM-61	Daily prior to use	
Tailgate Safety Meeting Conducted by: Shawn Meyer		Date: 10/16/14 Time: 0730
<b>OTHER TOPICS DISCUSSED:</b>	<b>ATTENDEES' Printed Names</b>	<b>ATTENDEES' Signatures</b>
Buddy system	Shawn Meyer	
Radio communications	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	

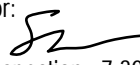
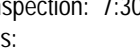
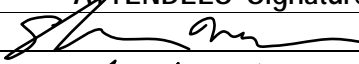
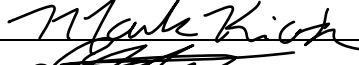

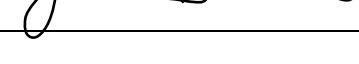


**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date: 10/17/14

Date Revised:

Project name: San Miguel Island (SMI)		<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC		
Preparer(s): Shawn Meyer		Supervisor:  Initials:  Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>		
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)		
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.		
<b>PRINCIPLE TASKS, STEPS</b>	<b>POTENTIAL HEALTH/SAFETY HAZARDS</b>	<b>RECOMMENDED CONTROLS</b>
Surface sweep, DGM Survey and Mag/Dig	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
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	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Power/ Hand tools	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
Schonstedt	Daily prior to use	UXO certification
EM-61	Daily prior to use	
Tailgate Safety Meeting Conducted by: Shawn Meyer		Date: 10/17/14 Time: 0730
<b>OTHER TOPICS DISCUSSED:</b>	<b>ATTENDEES' Printed Names</b>	<b>ATTENDEES' Signatures</b>
Buddy system	Shawn Meyer	
Radio communications	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	




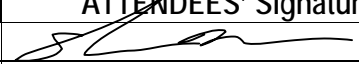
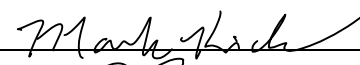

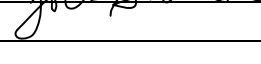


**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date: 10/20/14

Date Revised:

Project name: San Miguel Island (SMI)		<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC		
Preparer(s): Shawn Meyer		
<u>EMERGENCY INFO (list below or attach)</u> Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)		Supervisor:  Initials: Time of inspection: 7:30 Comments:
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.		
<b>PRINCIPLE TASKS, STEPS</b>	<b>POTENTIAL HEALTH/SAFETY HAZARDS</b>	<b>RECOMMENDED CONTROLS</b>
Surface sweep, DGM Survey and Mag/Dig	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
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	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Power/ Hand tools	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
Schonstedt	Daily prior to use	UXO certification
EM-61	Daily prior to use	
Tailgate Safety Meeting Conducted by: Shawn Meyer		Date: 10/20/14 Time: 0730
<b>OTHER TOPICS DISCUSSED:</b>	<b>ATTENDEES' Printed Names</b>	<b>ATTENDEES' Signatures</b>
Buddy system	Shawn Meyer	
Radio communications	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	


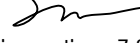


**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date: 10/21/14

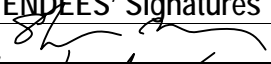
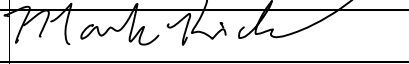
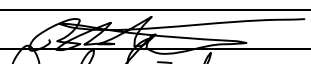
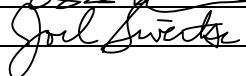
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials:  Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>	
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.	

PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, Reacquire and Excavate DGM targets	UXO	Observe all UXO safety precautions, dig to the side, positively ID items before moving.
	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.

EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/21/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	




**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
**COMBINATION FORM**

JOB#:

JSA Date: 10/22/14


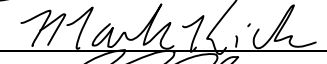

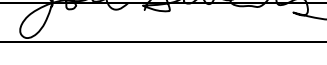
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials: Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>	
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
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PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, Reacquire and Excavate DGM targets	UXO	Observe all UXO safety precautions, dig to the side, positively ID items before moving.
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EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/22/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	



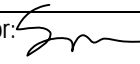


**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date: 10/23/14

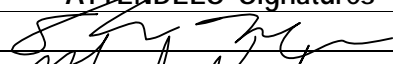


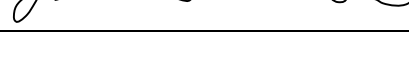
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials: Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>	
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911	
Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.	

PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
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Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/23/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	




**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
**COMBINATION FORM**

JOB#:

JSA Date: 10/24/14

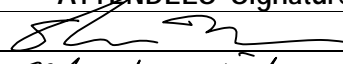

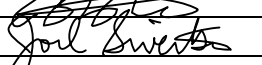
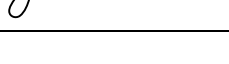
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials: Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u> Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.	

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EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/24/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Mark Kick	
	Richard Ricks	
	Joel Sivertsen	

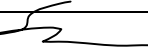


**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
COMBINATION FORM

JOB#:

JSA Date: 10/27/14

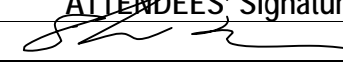


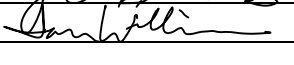
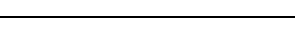
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials: Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>	
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.	

PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, Reacquire and Excavate DGM targets	UXO	Observe all UXO safety precautions, dig to the side, positively ID items before moving.
	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.

EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/27/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Dan Pringle	
	Richard Ricks	
	Joel Sivertsen	
	Ian Williams	




**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
**COMBINATION FORM**

JOB#:

JSA Date: 10/28/14

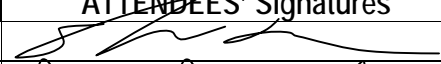


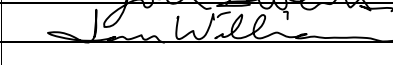
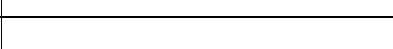
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials: Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>	
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.	

PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, Reacquire and Excavate DGM targets	UXO	Observe all UXO safety precautions, dig to the side, positively ID items before moving.
	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.

EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/28/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Dan Pringle	
	Richard Ricks	
	Joel Sivertsen	
	Ian Williams	






**JOB SAFETY ANALYSIS**  
**TAILGATE SAFETY MEETING**  
**COMBINATION FORM**

JOB#:

JSA Date: 10/29/14

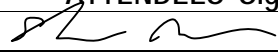
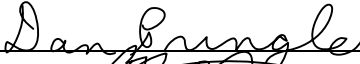

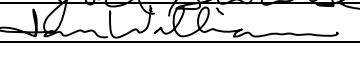
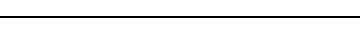
Date Revised:

Project name: San Miguel Island (SMI)	<b>ACTIVITY DESCRIPTION:</b> UXO Surface sweep, DGM Survey and Mag/Dig
Client: NAVFAC	
Preparer(s): Shawn Meyer	Supervisor:  Initials: Time of inspection: 7:30 Comments:
<u>EMERGENCY INFO (list below or attach)</u>	
Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Phone: (805) 389-5800 Ambulance Phone: 911 Emergency Evacuation route: Quickest means upwind of site Assembly point: SMI Ranger Station, Cuyler Harbor (alternate)	
Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.	

PRINCIPLE TASKS, STEPS	POTENTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, Reacquire and Excavate DGM targets	UXO	Observe all UXO safety precautions, dig to the side, positively ID items before moving.
	Slips/Trips/Falls	Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping.
	Biological Hazards; Hantavirus; Black Widow spiders; ticks	Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen.
	Strains from manually moving materials and equipment	Proper lifting – keep back straight, lift with legs, only lift 60 lbs
	Heat Stress	Drink plenty of fluids, wear Proper clothing.
	Hand injuries	Wear proper gloves; Be aware of pinch points and sharp edges.

EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Power/ Hand tools		
Schonstedt	Daily prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily prior to use	UXO certification
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/29/14 Time: 0730	Daily prior to use	

**OTHER TOPICS DISCUSSED:**

Buddy system	ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications	Shawn Meyer	
	Dan Pringle	
	Richard Ricks	
	Joel Sivertsen	
	Ian Williams	

# APPENDIX D

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## *Contractor Report Documentation*

## **CONTRACTOR PRODUCTION REPORTS**

<b>CLIENT</b>		<b>DATE</b>	10/5/2014
NAVFAC		<b>SHEET</b>	1 of 1

San Miguel Island  
 Field Activity: Mobe in

Company Name: CB&I Federal Services

<i>CB&amp;I Personnel on Site</i>			COMMENTS
Name	Title	Hours Worked	
Dan Pringle	Project Manager	10	
Shawn Meyer	SUXSOS	10	
Richard Ricks	UXOQC	10	
Mark Kick	Geophysicist	10	
Brian White	Engineer	10	

<i>Equipment on Site</i>			WEATHER EVENTS
Type of Equipment	Mob Date	Hours Worked	
3 x Schoenstadts	10/5/2014		
2 x MineLabs all metals locators	10/5/2014		
2 x EM61 metal detectors	10/5/2014		
1 X GPS Base Station	10/5/2014		
2 X GPS Rover	10/5/2014		
3 x CBI Radios	10/5/2014		
2 x GEO 7X GPS	10/5/2014		

Today's Activities:

**0730- Supply runs, equipment organization**

**1300- Safety Meeting**

**1330- Load and transport equipment and pax to Channel Islands Aviation**

**1400- Load 2 x islander aircraft**

**1430- Depart Camarillo Airport**

**1530- Arrive Ranger Station Airstrip, San Miguel Island, begin gear download and prep**

**1630- Island familiarity brief**

**1800- Secure from gear prep. End of day**

<b>WEATHER CONDITIONS</b>	<b>CHANGES FROM PLANS AND SPECIFICATIONS:</b>
Clear and Warm	
	<b>IMPORTANT TELEPHONE CALLS:</b>

**SIGNATURE:** Shawn Meyer 10/5/2014









<b>CLIENT</b>		<b>DATE</b>	10/9/2014
NAVFAC		<b>SHEET</b>	1 of 1

**San Miguel Island**  
**Field Activity: UXO sweep operations, DGM survey**

**Company Name: CB&I Federal Services**

<i>CB&amp;I Personnel on Site</i>			COMMENTS
Name	Title	Hours Worked	
Dan Pringle	Project Manager	10	All surface/ UXO sweep operations are conducted Schoenstadt assisted to a width of 6 feet.
Shawn Meyer	SUXSOS	10	
Richard Ricks	UXOQC	10	
Mark Kick	Geophysicist	10	
Brian White	Engineer	10	
			West Cuyler beach not DGM surveyed due to impassable rock fall midway down beach. Area swept by schoenstadt
			WEATHER EVENTS

<i>Equipment on Site</i>		
Type of Equipment	Mob Date	Hours Worked
3 x Schoenstadts	10/5/2014	
2 x MineLabs all metals locators	10/5/2014	
2 x EM61 metal detectors	10/5/2014	
1 X GPS Base Station	10/5/2014	
2 X GPS Rover	10/5/2014	
3 x CBI Radios	10/5/2014	
2 x GEO 7X GPS	10/5/2014	

**Today's Activities:**

**0730- Tailgate safety brief. Schoenstadts, EM61 and Communications checked**

**0800- Depart ranger station for Cuyler Harbor**

**0830- Install "island closed" sign on center Cuyler beach. Begin DGM survey**

**0900- Install "island closed" sign on west Cuyler beach. Begin UXO sweep of west Cuyler beach**

**1130- Install "island closed" sign on east Cuyler beach. Begin UXO sweep of east Cuyler beach.**

**1430- UXO sweep of beach areas complete. Begin surface sweep of transects from beach to cape benchmark**

**1630- Return to Cuyler harbor from surface sweep transects. Secure from DGM survey**

**1700- Break down equipment and carry up the trail to ranger station for the night**

**1730- Arrive at ranger station. Test and store equipment**

**1800- End of day.**

<b>WEATHER CONDITIONS</b>	<b>CHANGES FROM PLANS AND SPECIFICATIONS:</b>

Clear skies in AM giving way to high winds and fog	<b>IMPORTANT TELEPHONE CALLS:</b>

<b>SIGNATURE:</b>	Shawn Meyer					10/9/2014
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# CONTRACTOR PRODUCTION REPORT

DATE: **10/14/2014**  
Tuesday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	SUPERINTENDENT: <b>Shawn Meyer</b>
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		
AM WEATHER: Overcast	PM WEATHER: Overcast	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	11.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	11.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	11.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	11.0
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		TOTAL WORK HOURS ON JOB SITE THIS DATE 44.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 349.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM			<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Rquipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2As (2)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					

\* Denotes hour meter not working

Conducted daily tailgate safety meeting prior to commencing work. Tested 2 x EM61 and 2 x Schoenstedts. Conducted DGM survey of the trail leading from Green Mountain past the dry lake bed airstrip to NOAA research cabin. Conducted DGM survey of dry lake be airstrip. Conducted UXO sweeps of transects to the east and west of Green Mountain heading to the bluffs on the north. Conducted UXO sweep from the airstrip to Otter cove and over to Bowl benchmark. Transited to NOAA ranger station and pre staged equipment and batteries for tomorrow. 6 mile hike back from NOAA cabin to Ranger Cabin. 16 Miles hiked in total.





# CONTRACTOR PRODUCTION REPORT

DATE: **10/16/2014**  
Tuesday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	SUPERINTENDENT: <b>Shawn Meyer</b>
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		
AM WEATHER: Clear light wind from NW	PM WEATHER: Clear light wind from NW	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	10.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	10.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	10.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	10.0
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	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 345.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM. ICARE safety observation conducted.			<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Rquipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2As (2)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					

\* Denotes hour meter not working

Conducted daily tailgate safety meeting prior to commencing work. ICARE observation completed by Richard Ricks. Hiked to San Miguel Hill to set up GPS base station. Conducted UXO transects in the vicinity of Harris point trail. Completed DGM survey of Harris point trail. Completed DGM survey of North East Fox Pen high use area. Recovered base station from San Miguel Hill.

# CONTRACTOR PRODUCTION REPORT

DATE: 10/17/2014  
Friday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		SUPERINTENDENT: <b>Shawn Meyer</b>
AM WEATHER: Clear wind from NW	PM WEATHER: Clear wind from NW	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	8.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	8.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	8.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	8.0
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	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small> WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 337.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM.			<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Equipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2A (1)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					
1 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. UXO transects completed IVO Cardwell point. Equipment Maintenance, storage and demobilization.

10/17/2014  
Shawn Meyer - SUXOS/Superintendent      DATE

# CONTRACTOR PRODUCTION REPORT

DATE: 10/20/2014  
Monday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		SUPERINTENDENT: <b>Shawn Meyer</b>
AM WEATHER: Clear, moderate wind from NW	PM WEATHER: Clear, high wind from NW	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	11.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	11.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	11.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	10.0
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		TOTAL WORK HOURS ON JOB SITE THIS DATE 43.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small> WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 348.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM.			<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Rquipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2A (1)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					
1 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. UXO transects completed IVO Crook point. Equipment Maintenance and storage.

# CONTRACTOR PRODUCTION REPORT

DATE: 10/21/2014  
Sunday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		SUPERINTENDENT: <b>Shawn Meyer</b>
AM WEATHER: Clear, gale force wind from NW	PM WEATHER: Clear, gale force wind from NW	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	12.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	12.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	12.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	11.0
	7					
	8					
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TOTAL WORK HOURS ON JOB SITE THIS DATE	47.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	305.00
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	352.00
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED  
 Tailgate Safety Meeting Held in AM. ICARE observation completed

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Rquipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2A (1)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					
1 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. UXO transects completed North of Cardwell Point Trail. DGM reacquisition and excavation of targets at Carwell point. Equipment Maintenance and storage.



# CONTRACTOR PRODUCTION REPORT

DATE: **10/22/2014**  
Wednesday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	SUPERINTENDENT: <b>Shawn Meyer</b>
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		
AM WEATHER: Clear, gale force wind from NW	PM WEATHER: Clear, gale force wind from NW	MAX. TEMP: Deg. F <b>74</b>
		MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	11.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	11.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	11.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	10.0
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		TOTAL WORK HOURS ON JOB SITE THIS DATE 43.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 348.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM. ICARE observation completed			<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Rquipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2A (1)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					
1 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. DGM reacquisition and excavation of targets on Green Mountain trail east. UXO transects completed South West of Green Mountain. DGM survey conducted from Navy weather station to Green Mountain. Equipment Maintenance and storage.

# CONTRACTOR PRODUCTION REPORT

DATE: **10/23/2014**  
Thursday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	SUPERINTENDENT: <b>Shawn Meyer</b>
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		
AM WEATHER: Clear, gale force wind from NW	PM WEATHER: Clear, high wind from NW	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

### WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	11.5
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	11.5
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	11.5
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	10.5
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		TOTAL WORK HOURS ON JOB SITE THIS DATE 45.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 350.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM.			<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Equipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		EM-61MK2A (1)			
Schoenstedts (5)		GPS Base Station			
Radios (6)		GPS Rover Units (2)			
Trimble GeoXH (2)					
1 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. UXO reacquisition and excavation of targets on Point Bennet trail. UXO transects completed South of Point Bennet trail. DGM survey conducted from Green Mountain to NOAA station. Equipment Maintenance and storage.

# CONTRACTOR PRODUCTION REPORT

DATE: 10/24/2014

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

Friday

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		SUPERINTENDENT: <b>Shawn Meyer</b>
AM WEATHER: Clear, high wind from NW	PM WEATHER: Clear, high wind from NW	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

## WORK PERFORMED TODAY

Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	8.0
	2	Lead Geophysicist- Mark Kick	CB&I Federal Services	1	Geophysicist	8.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	8.0
	4	UXO Tech – Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	8.0
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TOTAL WORK HOURS ON JOB SITE THIS DATE 32.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT 305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		TOTAL WORK HOURS FROM START OF CONSTRUCTION 337.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED Tailgate Safety Meeting Held in AM.		<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Equipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		GPS Rover Units (2)			
Schoenstedts (5)		GPS Base Station			
Radios (6)					
Trimble GeoXH (2)					
2 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. UXO reacquisition and excavation of targets on Ranger Station Air Strip. Equipment Maintenance and storage. Housekeeping and Demobe to Camarillo

10/24/2014  
Shawn Meyer - SUXOS/Superintendent      DATE





# CONTRACTOR PRODUCTION REPORT

DATE: **10/28/2014**  
Tuesday

(ATTACH ADDITIONAL SHEETS IF NECESSARY)

CONTRACT NO.: <b>N62473-10-D-4009</b>	TITLE AND LOCATION: San Miguel Island-UXO Investigation	SUPERINTENDENT: <b>Shawn Meyer</b>
CONTRACTOR: <b>CB&amp;I Federal Services, LLC</b>		
AM WEATHER: Clear, light and variable wind	PM WEATHER: Clear, light and variable wind	MAX. TEMP: Deg. F <b>74</b> MIN. TEMP: Deg. F <b>58</b>

WORK PERFORMED TODAY						
Schedule Activity No.	#	Trade/Employee	EMPLOYER	NUMBER	TRADE	HRS
	1	Senior UXO Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS	11.0
	2	Project Manager Dan Pringle	CB&I Federal Services	1	Project Manager	11.0
	3	UXO Quality Control - Richard Ricks	CB&I Federal Services	1	UXOQC	11.0
	4	UXO Tech - Joel Sivertsen	CB&I Federal Services	1	UXO TECH II	10.0
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<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>JOB SAFETY</b> </div>	WAS A JOB SAFETY MEETING HELD THIS DATE? <small>(If YES attach copy of the meeting minutes)</small>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TOTAL WORK HOURS ON JOB SITE THIS DATE	43.00
	WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? <small>(If YES attach copy of completed OSHA report)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CUMULATIVE TOTAL OF WORK HOURS FROM PREVIOUS REPORT	305.00
	WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV ELECTRICAL/HIGH WORK DONE? <small>(If YES attach statement or checklist showing inspection performed.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	348.00
	WAS HAZARDOUS MATERIAL/WASTE RELEASED INTO THE ENVIRONMENT? <small>(If YES attach description of incident and proposed action.)</small>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> SAFETY REQUIREMENTS HAVE BEEN MET.	

LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED  
 Tailgate Safety Meeting Held in AM.

EQUIPMENT/MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB

EQUIPMENT	HOURS	Rental Equipment	HOURS	EQUIPMENT	MILEAGE
All Metals Detectors (2)		GPS Rover Units (2)			
Schoenstedts (5)		GPS Base Station			
Radios (6)					
Trimble GeoXH (2)					
2 x EM-61MK2A returned					
* Denotes hour meter not working					

Conducted daily tailgate safety meeting prior to commencing work. UXO transects S of San Miguel Hill. UXO reacquisition and excavation of DGM targets from San Miguel Hill to ranger station. Reacquisition and excavation of DGM targets in campground area. UXO transects in vicinity of south pens. Equipment maintenance and storage.

10/28/2014

Shawn Meyer - SUXOS/Superintendent      DATE

# **CONTRACTOR QUALITY CONTROL REPORTS**

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC** CONTRACT: N62473-10-D-4009 T.O. 0106

Report No. 500265-001  
Date 10/6/2014

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page)  Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			
				TESTING PERFORMED & WHO PERFORMED TEST  All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 needs more testing
				TESTING PERFORMED & WHO PERFORMED TEST  Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Shawn Meyer #240234 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) EM61 needs more testing on 10/07/14	REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) N/A
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REMARKS:		
	10/6/2014	
UXO QC Specialist	Richard Ricks	DATE
QC Engineer	Brian White	DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE





# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/8/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			
				TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good
				TESTING PERFORMED & WHO PERFORMED TEST Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Shawn Meyer #240234 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
N/A

REMARKS:

10/8/2014  
 UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.
 

QC Engineer Brian White DATE

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/9/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE: Worked beach area today had to watch fo			

TESTING PERFORMED & WHO PERFORMED TEST

All Metal Detectors on site have been tested.  
 schonstedts tested by Richard Ricks  
 #254343 good  
 #251272 good  
 #240234 good  
 EM61 tested by Mark Kick  
 #1230 good  
 #1231 good

TESTING PERFORMED & WHO PERFORMED TEST

Schonstedt's tested each day at test plot.  
 Team member test's there own detector.  
  
 #251272 Shawn Meyer  
 #240234 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
 N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
 N/A

REMARKS:

10/9/2014  
 UXO QC Specialist Richard Ricks DATE

QC Engineer Brian White DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/10/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE: finish sweep of beach			
				TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good
				TESTING PERFORMED & WHO PERFORMED TEST Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Shawn Meyer #240234 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
N/A

REMARKS:

10/10/2014  
 UXO QC Specialist Richard Ricks DATE

QC Engineer Brian White DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/13/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE: New UXO Tech came today and shown test plot	Area Sub-Surface Investigated: areas in which EM61 could not follow due to terrain or biological hazards	TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good	

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) GPS locking in to 2-3 meters due to battery	REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) N/A
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REMARKS:		
	10/13/2014	
UXO QC Specialist	Richard Ricks	DATE
QC Engineer	Brian White	DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE



# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/14/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			
				TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good
				TESTING PERFORMED & WHO PERFORMED TEST Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Shawn Meyer #240234 Richard Ricks #254343 Joel Sivertsen

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
GPS back after charging battery

REMARKS:

10/14/2014  
 UXO QC Specialist Richard Ricks DATE

QC Engineer Brian White DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/15/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Definable feature/s of work.</b> Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			
				TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good
				TESTING PERFORMED & WHO PERFORMED TEST Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Joel Sivertsen #240234 Shawn Meyer

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) N/A	REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) N/A
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**REMARKS:**  
**Ran EM61 in sideways configuration to be able to access all the narrow trails. Tested and worked great**

10/15/2014

UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/16/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Definable feature/s of work.</b> Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>Area Surface Swept:</b> trails and high use areas  NOTE:			
				TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good
				TESTING PERFORMED & WHO PERFORMED TEST Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Joel Sivertsen #240234 Shawn Meyer #254343 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
N/A

REMARKS:  
|

10/16/2014  
 UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE





# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC** CONTRACT: N62473-10-D-4009 T.O. 0106

Report No. 500265-001

Date 10/20/2014

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Sweep areas ahead of EM 61 down trails and all high use areas with schonstedt. EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			
				TESTING PERFORMED & WHO PERFORMED TEST All Metal Detectors on site have been tested. schonstedts tested by Richard Ricks #254343 good #251272 good #240234 good EM61 tested by Mark Kick #1230 good #1231 good
				TESTING PERFORMED & WHO PERFORMED TEST Schonstedt's tested each day at test plot. Team member test's there own detector.  #251272 Joel Sivertsen #240234 Shawn Meyer #254343 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
N/A

REMARKS:  
|

10/20/2014  
 UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE



# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC** CONTRACT: N62473-10-D-4009 T.O. 0106

Report No. 500265-001

Date 10/22/2014

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Mag and dig points found by EM61. Sweep areas scientists may use on the island with Schonstedts
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			

TESTING PERFORMED & WHO PERFORMED TEST

All Metal Detectors on site have been tested.  
 schonstedts tested by Richard Ricks  
 #254343 good  
 #251272 good  
 #240234 good

TESTING PERFORMED & WHO PERFORMED TEST

Schonstedt's tested each day at test plot.  
 Team member test's there own detector.  
  
 #251272 Joel Sivertsen  
 #240234 Shawn Meyer  
 #254343 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
 N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
 N/A

REMARKS:  
**placed seed item in path for check on EM61**

10/22/2014

UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/23/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Mag and dig points found by EM61. Sweep areas scientists may use on the island with Schonstedts
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			

TESTING PERFORMED & WHO PERFORMED TEST

All Metal Detectors on site have been tested.  
 schonstedts tested by Richard Ricks  
 #254343 good  
 #251272 good  
 #240234 good

TESTING PERFORMED & WHO PERFORMED TEST

Schonstedt's tested each day at test plot.  
 Team member test's there own detector.  
  
 #251272 Joel Sivertsen  
 #240234 Shawn Meyer  
 #254343 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
 N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
 N/A

**REMARKS:**  
 |reran area of concern found seed item with EM61

10/23/2014

UXO QC Specialist \_\_\_\_\_ Richard Ricks \_\_\_\_\_ DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

**GOVERNMENT QUALITY ASSURANCE REPORT**

QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT

GOVERNMENT QUALITY ASSURANCE MANAGER \_\_\_\_\_ DATE



# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC** CONTRACT: N62473-10-D-4009 T.O. 0106

Report No. 500265-001

Date 10/24/2014

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Mag and dig points found by EM61. Sweep areas scientists may use on the island with Schonstedts
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			

TESTING PERFORMED & WHO PERFORMED TEST

All Metal Detectors on site have been tested.  
 schonstedts tested by Richard Ricks  
 #254343 good  
 #251272 good  
 #240234 good

TESTING PERFORMED & WHO PERFORMED TEST

Schonstedt's tested each day at test plot.  
 Team member test's there own detector.  
  
 #251272 Joel Sivertsen  
 #240234 Shawn Meyer  
 #254343 Richard Ricks

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
 N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
 N/A

REMARKS:  
|

UXO QC Specialist

Richard Ricks

DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
GOVERNMENT QUALITY ASSURANCE MANAGER	
DATE	

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/27/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Mag and dig points found by EM61. Sweep areas scientists may use on the island with Schonstedts
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			

TESTING PERFORMED & WHO PERFORMED TEST

All Metal Detectors on site have been tested.  
 schonstedts tested by Richard Ricks  
 #254343 good  
 #251272 good  
 #240234 good

TESTING PERFORMED & WHO PERFORMED TEST

Schonstedt's tested each day at test plot.  
 Team member test's there own detector.  
  
 #251272 Joel Sivertsen

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
 N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
 N/A

**REMARKS:**  
 Relocated seed item off of point made with EM61 data team located with schonstedt and all metea detector found and confirmed a lot of hot rocks today

10/27/2014

UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC** CONTRACT: N62473-10-D-4009 T.O. 0106

Report No. 500265-001

Date 10/28/2014

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Mag and dig points found by EM61. Sweep areas scientists may use on the island with Schonstedts
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Area Surface Swept: trails and high use areas  NOTE:			

TESTING PERFORMED & WHO PERFORMED TEST

All Metal Detectors on site have been tested.  
 schonstedts tested by Richard Ricks  
 #254343 good  
 #251272 good  
 #240234 good

TESTING PERFORMED & WHO PERFORMED TEST

Schonstedt's tested each day at test plot.  
 Team member test's there own detector.  
  
 #251272 Joel Sivertsen

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS)  
 N/A

REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST)  
 N/A

REMARKS:  
|

UXO QC Specialist

Richard Ricks

10/28/2014

DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
GOVERNMENT QUALITY ASSURANCE MANAGER	
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
DATE	

# CONTRACTOR QUALITY CONTROL REPORT

**CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106**

**Report No. 500265-001**

**Date 10/29/2014**

PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT
<b>PREPARATORY</b>	PLANS AND SPECS HAVE BEEN REVIEWED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work (see continuation page) Done on 10/05/14
	THE SUBMITTALS HAVE BEEN APPROVED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS COMPLY WITH APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	MATERIALS STORED PROPERLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	PRELIMINARY WORK WAS DONE CORRECTLY.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	TESTING PLAN HAS BEEN REVIEWED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	WORK METHOD AND SCHEDULE DISCUSSED.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>INITIAL</b>	PRELIMINARY WORK WAS DONE CORRECTLY	<input checked="" type="checkbox"/>	
SAMPLE HAS BEEN PREPARED/APPROVED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORKMANSHIP IS SATISFACTORY		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
TEST RESULTS ARE ACCEPTABLE.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK IS IN COMPLIANCE WITH THE CONTRACT.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
WORK COMPLIES WITH SAFETY REQUIREMENTS		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED INITIAL PHASE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Definable feature/s of work. Mag and dig points found by EM61. Sweep areas scientists may use on the island with Schonstedts
	WORK COMPLIES WITH SAFETY REQUIREMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<p><b>Area Surface Swept:</b> trails and high use areas</p> <p><b>Area Sub-Surface Investigated:</b> areas in which EM61 went and found anomalies and trails if located by Schonstedt</p> <p>NOTE: Schonstedt 240234 would not calm down or stop ringing off even after switching batteries</p>			

REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) N/A	REWORK ITEMS CORRECTED TODAY (FROM REWORK ITEMS LIST) N/A
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**REMARKS:**  
**Mag and dig the beach areabut all areas covered by EM61 have changed due to high tides over last couple weeks**

10/29/2014

UXO QC Specialist Richard Ricks DATE

On behalf of the contractor, I certify that this report is completed and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report.

<b>GOVERNMENT QUALITY ASSURANCE REPORT</b>	DATE
QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT	
GOVERNMENT QUALITY ASSURANCE MANAGER	DATE

**REWORK ITEMS LIST**





## **TESTING PLAN AND LOG**

