EXPLOSIVE SAFETY RISK ASSESSMENT

FOR

San Miguel Island & Prince Island

MARCH 2015

NAVAL BASE VENTURA COUNTY









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RECORD OF REVIEW AND APPROVAL

EXPLOSIVE SAFETY RISK ASSESSMENT FOR San Miguel Island & Prince Island

PREPARED BY: Steve Granade, Environmental Division, Naval Base Ventura County

VALIDATING OFFICIAL: Geoff Buckner, Naval Facilities Engineering Command Southwest

APPROVAL	SIGNATURE	DATE
Explosives Safety Office (NBVC)	11× 100	10 Mar 15
Environmental Office (NBVC)	I Share Kanada	6 Mar 15
NAVFAC Southwest	BUCKNER.GEOFFREY.T.12397 Datable Signed by MICHARG (GOTRY 11)39112001 Dist cuttle good 5. Generational confection and 50, available confection and 50, availabl	12 Mar 15
Commanding Officer, Naval Base Ventura County	Allagun	25 mil 15

RECORD OF CHANGES

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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:
 - o Campgrounds and similar areas received 100 percent surface coverage,
 - o Beach clearance was performed via transects spaced on 3 to 5 foot offsets, and
 - o 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 obeys 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: General Public Access	Public Access	Overall Risk Assessment Code (RAC) (Use highest code)	ment Code	(RAC) (I	Use highes	t code)	_	
Project Location: San Miguel Island, CA	l Island, CA	Risk A	Assessment Code (RAC) Matrix	nt Code	RAC)	Natrix		
Contract Number:		Severity			Probability	lity		
Date Prepared: 5 March 2015	5		Frequent	Likely	Occasional	Seldom	Unlikely	
(A) :(A) :(A) :(A) :(A) :(A) :(A) :(A) :		Catastrophic	ш	ш	Ξ	I	M	
Prepared by (Name/Time): S	Prepared by (Ivaine/Time). Steve Granade/Environmental Engineer	Critical	ш	Ŧ	I	Σ	_	
T .(0 : T/0	Tom Mol cod/Evaloring Octoby Officer	Marginal	H	Σ	Σ	_	_	
Keviewed by (Name/Title): T	Reviewed by (Name/Title): Tom McLeod/Explosive Safety Officer	Negligible	Σ	_	_	_	_	
Notes: (Field Notes, Review Comments, etc.)	ments, etc.)	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)	entified safety "C	Controls" and	determine RAC	(See above)		
		"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom, or Unlikely.	e an incident, nes onal, Seldom, or	ar miss, or acc Unlikely.	sident and	RAC	Chart	
		"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible	n incident, near n Critical, Marqinal	niss, or accide I, or Negligible		E = Extremely Hi H = High Risk	igh Risk	
		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.	Severity) as E, H	, M, or L for eat t the top of AF		M = Moderate Risk L = Low Risk	isk	
Activity	Hazard		Con	Controls				RAC
General Public access to island.	Unfamiliarity with: island UXO hazards, island access requirements, and emergency procedures.	 All members of the general public shall attend the SMI UXO safety training via CINP before access to the island is allowed. 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 	al public shall of the island is all public ages access trongled are required.	attend the allowed. 18 and ove the island irred to keel	SMI UXO safer shall reviever is allowed.	fety training w and sign All personnel Permit in		_
		their procession while visiting SMI. No unattended minors shall be allowed access to SMI.	ting SMI. No	unattendec	minors shall	l be allowed		
	Unauthorized access of SMI by the general public.	 All members of the general public must obtain a SMI Access Permit prior to visiting SMI. 	al public must	obtain a S	MI Access Pe	ermit prior to	visiting	_
		2) Access to SMI by the general public is limited to the airfield by the Ranger Station and at Cuyler Harbor Beach.	eral public is l ch.	limited to th	ne airfield by t	the Ranger S	tation	
		3) Cuyler Harbor Beach shall be posted with signs with warnings about the risk from UXO and Access Permit requirement.	II be posted w equirement.	ith signs wi	ith warnings a	about the risk	t from	
	Encountering UXO on the surface on the ground.	 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. No off trail access is allowed at any time. Boundary markers shall be placed around the campground area and the general 	ublic shall be ons: The cam each to the R ed at any time e placed arou	escorted a pground ar anger Stati e.	t all times by rea by the Ra on, and Cuyle	CINP person inger Station, er Harbor Bei a and the ger	nnel the ach.	_
		public area at Cuyler Harbor Beach. 4) Boundary markers shall be placed along trails at their entry points to known	oor Beach. e placed alon	g trails at th	neir entry poir	nts 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.	discovered m	ust be imm SMI is fort	ediately repo oidden.	rted to the CI	AN N	
General Public Access Activity Hazard Analysis.docx	Hazard Analysis.docx					<u></u>	Page 1 of	2

RAC	rurface shall be
	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
	No digging or any other activity that penetrates that lowed by the general public with the following e
	No digging or any othe allowed by the general
Hazards	Encountering UXO underneath the surface on the ground.
	SS
Job Steps	General Public access to island, continued

Equipment to be Used	Training Requirements	Inspection Requirements
-	-	-
d co	SMI UXO safety training	CINP Ranger inspection of SMI Access Permit.
	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.

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Activity/Work Lask: CINP Personnel Access	rsonnel Access	Overall Kisk Assessment Code (KAC) (Use nignest code)	ment Code	(KAC) (L	se highes	t code)	_	
Project Location: San Miguel Island, CA	Island, CA	Risk A	Assessment Code (RAC) Matrix	nt Code	(RAC)	Natrix		
Contract Number:		Severity			Probability	lity		
Date Prepared: 5 March 2015	ιo		Frequent	Likely	Occasional	Seldom	Unlikely	
O. (Alc. (Al		Catastrophic	ш	ш	Ξ	I	Σ	
riepaled by (Ivallie/Tille). Sk	riepaieu by (Manie/Tille). Sieve Granaue/Envilonnenial Engineer	Critical	E	H	Н	M	7	
H . (4: H)		Marginal	Ŧ	Σ	Σ	_	_	
Reviewed by (Name/Title): 10	Reviewed by (Name/ Litle): Lom McLeod/Explosive Safety Officer	Negligible	M	L	Г	Г	7	
Notes: (Field Notes, Review Comments, etc.)	nents, etc.)	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above)	lentified safety " C	ontrols" and	determine RAC	(See above)		
		"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom, or Unlikely.	e an incident, nea onal, Seldom, or l	r miss, or acci Jnlikely.	dent and	RAC	Chart	
		"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible	n incident, near m Critical, Marginal,	iss, or accider or Negligible		E = Extremely H H = High Risk	High Risk	
		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.	Severity) as E, H,	M, or L for ead the top of AHA		M = Moderate Risk L = Low Risk	isk	
Activity	Hazard		Con	Controls				RAC
Channel Islands	Unfamiliarity with: island UXO hazards,	1) All CINP personnel shall attend the SMI UXO safety training via CINP	ittend the SMI	UXO safet	y training via	CINP		_
National Park personnel including	Island access requirements, and emergency procedures.	before access to the island is allowed. 2) All non-Navy and NPS government entities must obtain an access license.	d is allowed. vernment entit	ies must ob	otain an acce	esciense		
government			ning research	at SMI.				
employees, non-		3) All contracts with contractors and concessionaires performing work at SMI	ors and conce	ssionaires _I	performing w	ork at SMI		
government research		shall include a description of SMI UXO hazards, island access	of SMI UXO I	nazards, isla	and access			
groups, CINP		_	ency procedur	es.		:		
concessionaires, and contractor access to	Unauthorized access to restricted areas SMI by non-Navy and NPS	 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 	vernment entif search at SMI	ies must ok All access	otain an acce s licenses sh	ess license p iall include ar	rior to eas	_
island.	government entities, non-government							
	concessionaires, and contractors.	2) All contracts shall include areas approved for access.	areas approve	ed for acces	58.			
			accessible are	as of SMI is	s allowed.			
		 Cuyler Harbor beach shall be posted with signs with warnings about the fisk from UXO and Access requirements. 	i be posted wi nents.	ın sıgns mı	n warnings a	about the risk	E COL	
	Encountering UXO on the surface on	1) All CINP personnel shall develop Activity Hazard Analysis for all activities that	Jevelop Activit	v Hazard A	nalysis for a	Il activities th	at	_
	the ground.		al public acce	ss areas or	· off trail.			
		2) Boundary markers shall be placed around the campground area and the general	e placed arou	nd the cam	pground are	a and the ger	neral	
		public area at Cuyler Harbor Beach.	oor Beach.					
		3) Boundary markers shall be placed along trails at their entry points to known	e placed along	g trails at th	eir entry poii	nts to known		
			-			;	(
		4) All suspected UXO items discovered must be immediately reported to the CINP	discovered mu	ust be imme	ediately repo	rted to the C	 ک	
		Kanger. Kemoving any UXO item from SMI is forbidden.	XO Item Irom	SIMI IS TORD	ldden.			

Activity Hazard Analysis (AHA) 2.0

RAC	-		
Controls	 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. At all other locations on SMI, anomaly avoidance techniques shall be used when performing digging or any other activity that penetrates the ground surface. 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. 		
Hazards	Encountering UXO underneath the surface on the ground.		
Job Steps	Channel Islands National Park personnel access to island, continued		

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

NAVFAC Southwest 1220 Pacific Highway San Diego, CA 92132

Prepared by:

CB&I FEDERAL SERVICES LLC

1230 Columbia Street, Suite 1200 San Diego, California 92101-8517

Reviewed/Approved by:

Daniel Bringle	March 2, 2015
Daniel Pringle Project Manager	Date
Kedwal f Norg	March 2, 2015
Richard Wong	Date
Program Manager	

EXECUTIVE SUMMARY

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:
 - o 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

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

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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 inhabitance 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

92132

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:

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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

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 3/4 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

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
 - o Campgrounds
 - o Beach
 - o Ranger Station, and
 - o 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 reevaluated 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

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.

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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

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

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.

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TABLES

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	Location C	oordinates	Grid Value	O+1.	Itam Description	Weight	Depth	Removed	Commonto
Number	East	North	(millivolts)	Qty.	Item Description	(lbs)	(inches)	(yes/no)	Comments
Airstrip East	Targets								
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. with117				
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		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	Location C	oordinates	Grid Value	04	Itana Daganintian	Weight	Depth	Removed	Commonto
Number	East	North	(millivolts)	Qty.	Item Description	(lbs)	(inches)	(yes/no)	Comments
Airstrip Wes	t Targets								
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	
Caliche Fore	st Trail Targe	ts							
7	742306.3	3769145.9	14.9	1	Rock			No	Boulder above ground
Campground	Targets								
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	Location C	oordinates	Grid Value	04	Harris Bassaria tian	Weight	Depth	Removed	Comments
Number	East	North	(millivolts)	Qty.	Item Description	(lbs)	(inches)	(yes/no)	Comments
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	
Cuyler Harbo	or Beach Targ								
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	Location C	oordinates	Grid Value	O+1.	Homo Docemintion	Weight	Depth	Removed	Commonts
Number	East	North	(millivolts)	Qty.	Item Description	(lbs)	(inches)	(yes/no)	Comments
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				
Fox Pens 1 T	rail Targets								
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
Green Mtn to	o West Airstr	ip Targets							
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	Location C	oordinates	Grid Value	04	Itana Danasintian	Weight	Depth	Removed	Comments
Number	East	North	(millivolts)	Qty.	Item Description	(lbs)	(inches)	(yes/no)	Comments
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
Ranger Stati	on to Green I	Mtn Intersect	ion Targets						
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

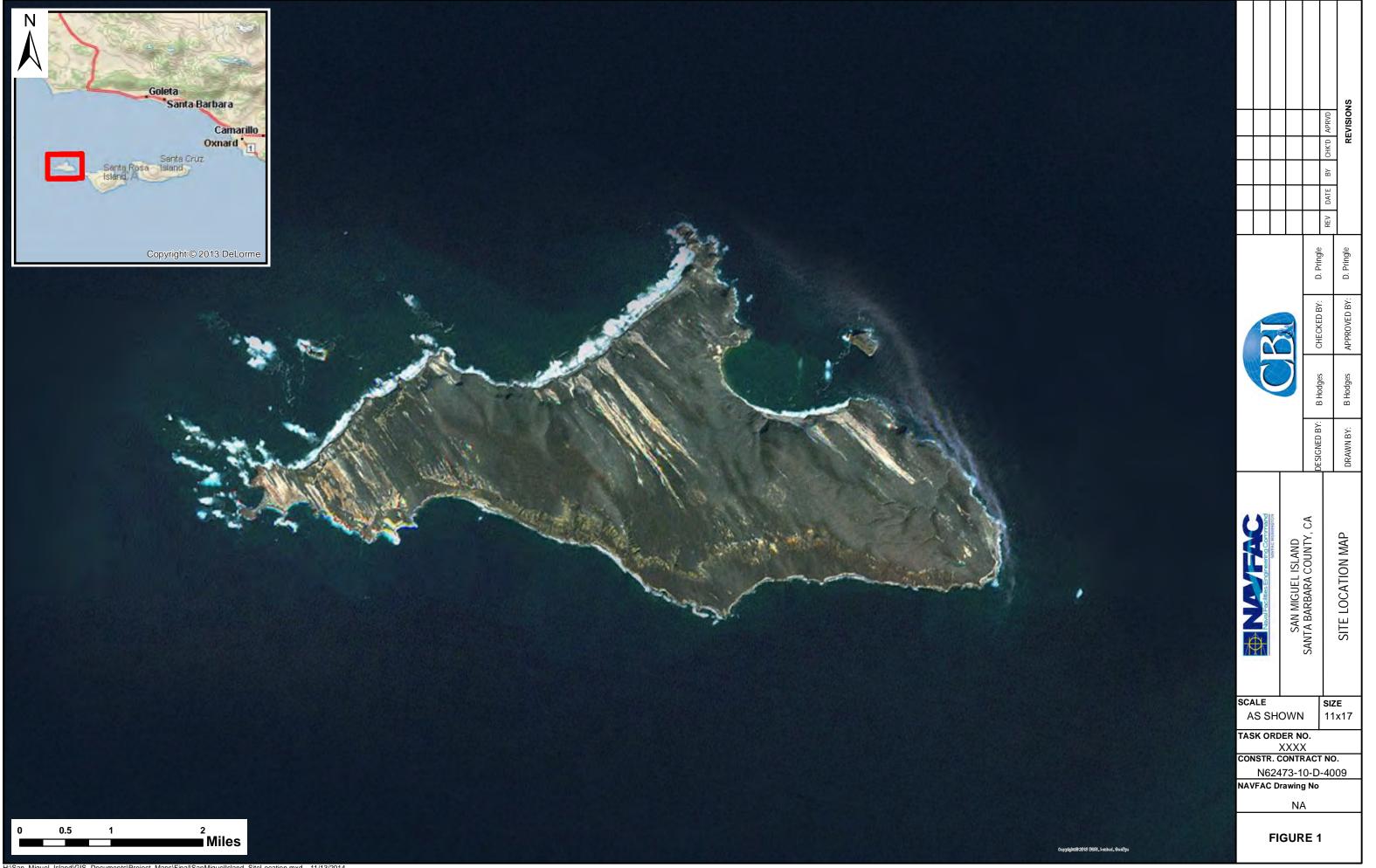
Target ID	Location C	oordinates	Grid Value	0.	the second second	Weight	Depth	Removed	
Number	East	North	(millivolts)	Qty.	Item Description	(lbs)	(inches)	(yes/no)	Comments
19	742114.7	3768938.4	3.4		No find				Solid rock
20	742090.9	3768936.4	3.4		No find				Solid rock
21	741956.53	3768945.9	4		No find				Solid rock
22	741881.6	3769012.7	9.7	2	Rebar		0	No	Solid rock
23	741391.6	3769308	37.5						Solid rock
West Airstrip	to NOAA Sta	ation Targets							
3	737284.6	3768470.8	12.1		No find				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	4	Fox cage			No	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

Date	Item	Depth Found	Condition	Disposition	Location found	Northing	Easting	Notes
10/05/1/	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	
10/23/17	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	
40/00/44	Practice bomb BDU-33	surface	MPPEH	ranger station	plateau near Cardwell point	6161261.063	1164926.018	spotting charge present

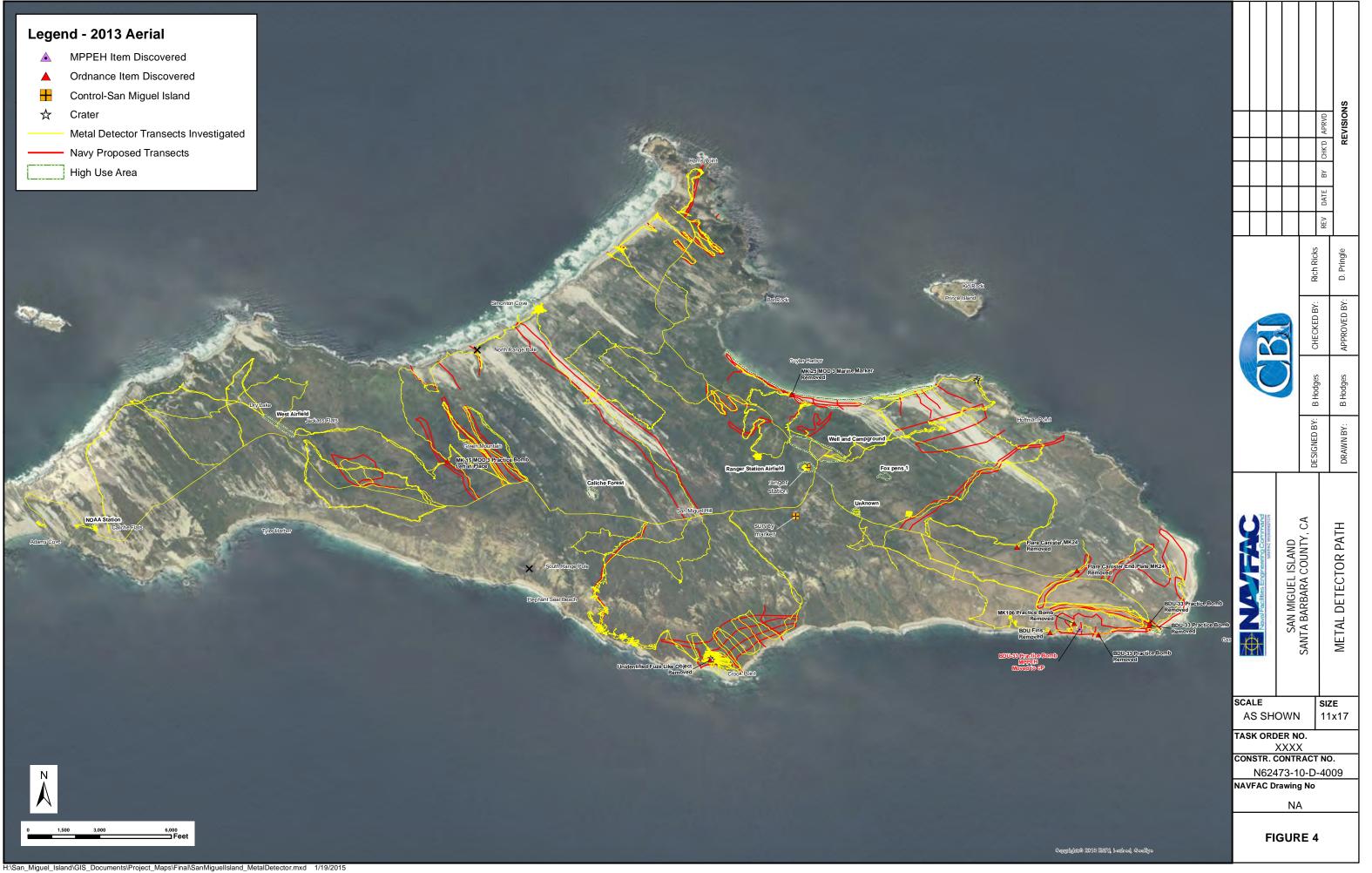
FINAL COMPLETION REPORT UXO SURVEY SAN MIGUEL ISLAND, CALIFORNIA PROJECT NO. 500265

FIGURES











FINAL COMPLETION REPORT UXO SURVEY SAN MIGUEL ISLAND, CALIFORNIA PROJECT NO. 500265

APPENDIX A

Photographic Documentation

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION LOG

Photograph	<u>Description</u>
1	Mobilization to San Miguel Island
2	Impact crater southwest of Green Mountain
3	Impact crater west of Cardwell Point
	UXO Investigation
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
	Subsurface Investigation
12	IVS seed - horizontal
13	IVS seed - vertical
14	Survey benchmark
15	GPS base station set up
16	EM61set 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 25	Cuyler Harbor Beach subsurface investigation
25 26	GPS rover for target reacquisition
20	Personnel heading to benchmark at Harris Point
27	Anomalies, MEC/MPPEH, MD Missellamous metal debris. Hamsetsed artifacts
27	Miscellaneous metal debris – Homestead artifacts
28 29	Miscellaneous metal debris – pipeline 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
33	סוווטט אוואסט איזאאן ככ טעם

<u>Photograph</u>	<u>Description</u>
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
	<u>Demobilization</u>
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



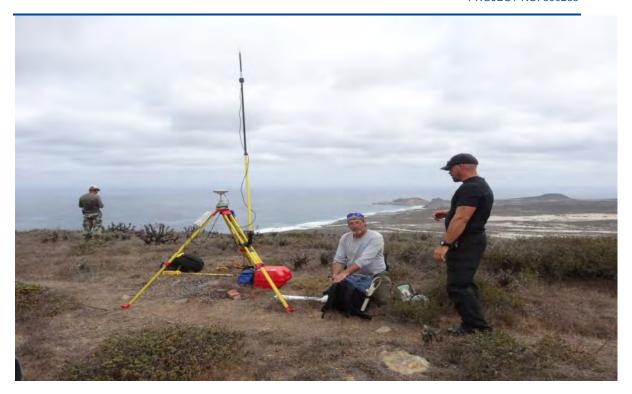
Photograph 12 IVS seed - horizontal



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 41 Mk 25 Marine marker



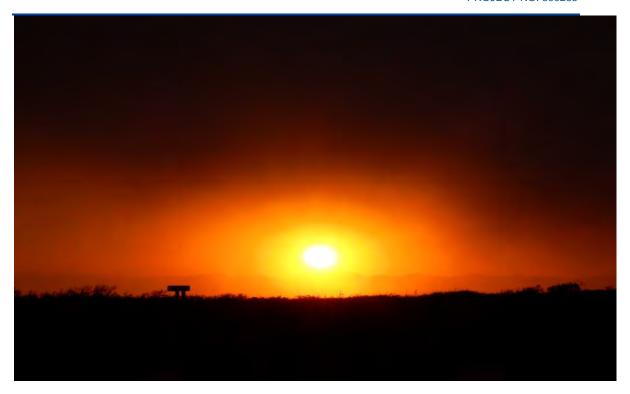
Photograph 42 Bomb fragment



Photograph 43 Airplane approaching landing strip



Photograph 44 Loading plane for demobilization

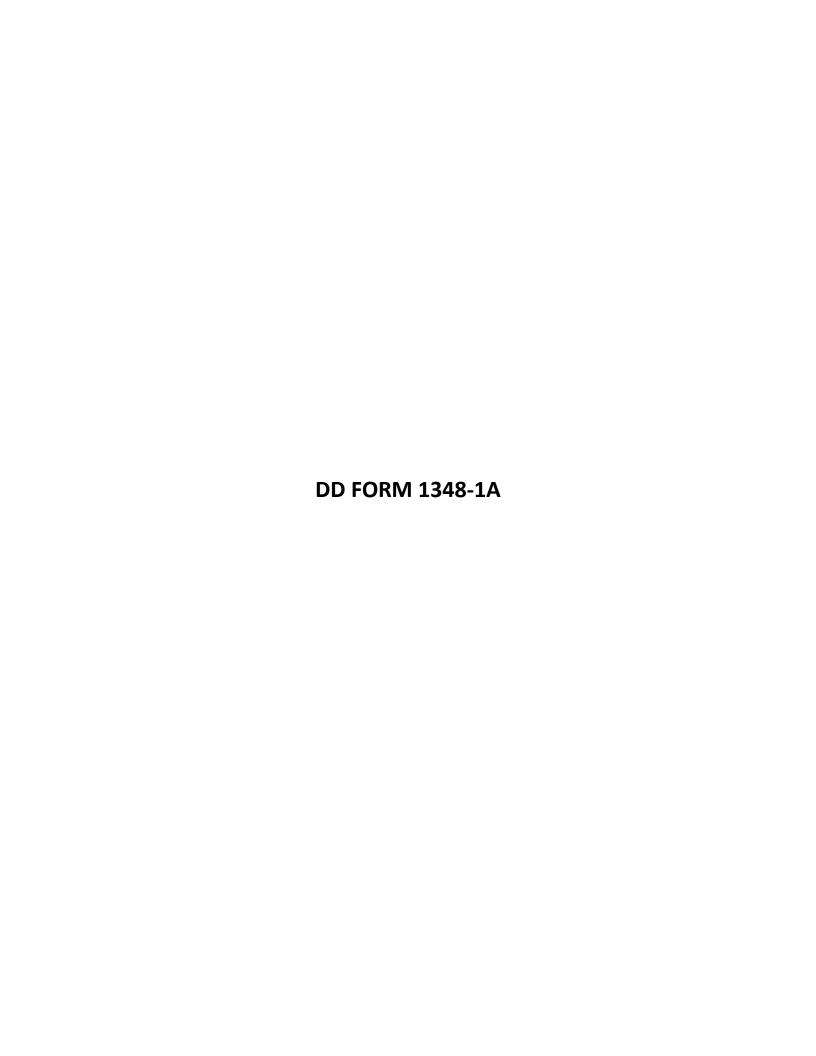


Photograph 45 Sunset on San Miguel Island

FINAL COMPLETION REPORT UXO SURVEY SAN MIGUEL ISLAND, CALIFORNIA PROJECT NO. 500265

APPENDIX B

Material Documentation



1 2 3 4 5 D1 RI O D FRO	6 7 23 2425 26 27 28 29 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 50 61 62 63 64 65 66 67 68 69 70 71 72 73 M	UNIT PRIC	DE	DOLLARS		CB&I Fe	deral	US Nation Service San Migue Ranger Sta	i
24. DOCUMENT NUMBER & SUFFIX (30–44)			C'D	MFC 11.UP 12. UNIT		RATE	8. TYPE CA		9. PS
26. NATIONAL 24. DOCUMENTN STOCK NO. & SUFFIX (38 ADD (8-22)		17. ITEM NO MPPEH p 18. TY CONT	19. I	no CONT 2		spotting ca AL WEIGHT 25	2	21. TOTAL CUE 1 23. DATE REC	
26. RIC (4-6) Ul (23-24) QTV (25-29) CON CODE (71) DIST (55-56)	UP (74-80)								
27. ADDITIONAL DATA	The material listed on this form has been inspected and processed by DDESB- approved Transfer of custody of this material is of a temporary and emergent nature until US Milis Shawn Meyer, SUXOS CB&I Federal Services Richard Ricks, UXOQC CB&I Federal Services	d means, as tary EOD s	requi ervic	red by DOD po es can be provid	licy, ar led.	nd is belie	ved to pose	an explosive	e hazard.

3. SHIP TO

2. SHIP FROM

	1 2 3 4 D I O D F C E N T	1		7 7 7 7 7 7 7 8 3 4 5 6 7 8 9 0 UNIT PRICE DOLLARS CTS	1. TOTAL F	СТЅ	2. SHIP FROM CB&I Federal Services I. MARK FOR	3. SHIP TO US National Park San Miguel Island Station	Ranger
7-	24. DOCUMENT NUMBER & SUFFIC (30-34)	Load Identification Range/Location: Load #:			ATION	UNIT WEIG	ed Debris 🖸		9. PS 15. SL 18. SIS
(EG) ISSUE KELEASE/KECE	25. NATINONAL STOCK NO & ADD (8-22)			conex open top flatbed	1 Will		20. TOTAL WEIGHT	3 23. DATE RECEIVED /0/30(20	14
DD FORM 1348-1A, JUL 91	28. RIC (4.6) U(232.4) U(232.4) CON CODE (7.1) DIST (65.6.9)	BOX NUMBER: TRUCK TYPE: Packed by CFS Date: DATE SHIPPED:	SEAL NUMBER: Certified Seal Intact (if MD):	e initial/date					
	27. ADDITIONAL DATA	"The material listed on this form has been insperand to to the best of my knowledge and belief do not have: Name: SHALL MEYER SUXOS, CFS Cell Phone #: 775 4269937	Name: Richard Ricks UXOQC, CFS Cell Phone #: 940.435-2	5	D policy,				

FINAL COMPLETION REPORT UXO SURVEY SAN MIGUEL ISLAND, CALIFORNIA PROJECT NO. 500265

APPENDIX C

Health and Safety Documentation

VICION / CLIDCIDIA DV .	CB&I Federal Services	FACILITY: San Miguel Island
VISION / SUBSIDIARY :	TIME:	JOB NUMBER: 500265
ate: 10/6/14	NAVFAC SW	
USTOMER:		
LCII IC LC CI III	Niguel Island	
ITE OF WORKS	nvestigation	
HEMICALS USED: NO	NE	
		ODICS DRESENTED
	SAFETY TO	OPICS PRESENTED
AFETY TOPICS: WEAT	HER, UXO ITEM	MS 4 PROCEDURES, FERAILW-54PS TRIPS FACES
SAFE HAVEN (EV	LACUATION PROCE	DUNES
PROTECTIVE CLOTHING/EQU	UIPMENT: LEVEL O	PPE
CHEMICAL HAZARDS: N	ONE PRESENT	
CHEMICAL HAZARDS : ~		
		6- SMALL MOUND STOWES, CRACKS IN GROWN
		L- SMALL MOUND STONES, CRACKS IN GROWN
		L- SMALL MOUND STONES, CRACKS IN GROWN
PHYSICAL HAZARDS: Sと	IPPLL ! TRIPPL	L- SMALL NOVNO STONES, CNACKS IN GROWN
	IPPLL ! TRIPPL	L- SMALL MOUND STONES, CRACKS IN GROWN
PHYSICAL HAZARDS: SCA	IPPLL ! TAIPPLA	
EMERGENCY PROCEDURES:	nt Valley Hospital PHON	NE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010
PHYSICAL HAZARDS: SCA	nt Valley Hospital PHON	
EMERGENCY PROCEDURES: HOSPITAL: St. Johns Pleasar CLINIC: U.S. Healthwork	nt Valley Hospital PHON	NE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010
EMERGENCY PROCEDURES: HOSPITAL: St. Johns Pleasar CLINIC: U.S. Healthwork	nt Valley Hospital PHON	NE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 NE: 805-983-2234 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030
EMERGENCY PROCEDURES: HOSPITAL: St. Johns Pleasar CLINIC: U.S. Healthwork	int Valley Hospital PHON PHON Tall the CB&I Hot Line within the	NE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 NE: 805-983-2234 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030 The hour for any vehicle accident no matter how minor or an injury requiring
EMERGENCY PROCEDURES: HOSPITAL: St. Johns Pleasar CLINIC: U.S. Healthwork SPECIAL EQUIPMENT: SPECIAL INSTRUCTIONS: C	nt Valley Hospital PHON S PHON Tall the CB&I Hot Line within the off-site treatment. 866-2	NE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 NE: 805-983-2234 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030 The hour for any vehicle accident no matter how minor or an injury requiring

DATE: 10/6/14

		ATTENDEES	EXCLUSION ZONE					
NAME	COMPANY	SIGNATURE	IN	OUT	IN	OUT		
DAN PRINGLE	CB4I	Daniel W Bringle	0700					
Richard Ricks	CB+I	Of the	0700					
Ian Williams	NPS	Jan William	0700					
MARK Kick	cFS	Mark Kick	0700					
SHAWN MEYER	Cts	1	0700					
BRIAN MEYER	CFS	Ba	0700					
*			100					

TAILGATE	SAFET	Y MEETI	NG/ EXCLUSION ROSTER
DIVISION / SUBŞIDIARY : CB&I Feder	al Services	FACILITY: San N	Aiguel Island
	IME: 07 30		JOB NUMBER: 500265
CUSTOMÉR: NAVFAC SW			
SPECIFIC LOCATION : San Miguel Island			
TYPE OF WORK: UXO Investigation			
CHEMICALS USED: NOWE			
	SAFETY TOPI	CS PRESENTED	
SAFETY TOPICS: UXO SAFETY	, SLIPS 1	TIPS FALL	(S BUDDY SYSTEM, 12010 USE, HOT
WEATHER.			
PROTECTIVE CLOTHING/EQUIPMENT :	EVEL 17,	LONG SLEE	EVES, AVEA VIS
CHEMICAL HAZARDS: NONE			
PHYSICAL HAZARDS: SMICE NIA	te, nouth	TEMAIN	
EMERGENCY PROCEDURES :			
HOSPITAL : St. Johns Pleasant Valley Hospita	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 :			
	Line within the home ment. 866-299-3		e accident no matter how minor or an injury requiring
Work Activity: 3 UXO SURFAC	ESWEEP	/ DGIM O	ATA COLLECTION.

10/7/14

1	ATTENDEES		EXCLUSION ZONE					
NAME	COMPANY	SIGNATURE	IN	OUT	IN	OUT		
SHAWN MEVER	CS:I	A	0700					
Richard Ricks	CB4I	MASS	0700					
MARK KICK	CF5	Mark 16ick	0700					
DAN PRINCIE BRON WHITG Ian Williams	CFS	Daniel WBringle	0700					
BRON WHITE	CB	BC WHIT Jen	6708					
Ian Williams	NPS	Lan William	0700					

17	ILGATE SAFETY MEETING/ EXCLUSION ROSTER
DIVISION / SUBSIDIARY :	CB&I Federal Services FACILITY: San Miguel Island
ate: /0/8/11/	TIME: 0 7 3 0 JOB NUMBER: 500265
USTOMER:	NAVFAC SW
PECIFIC LOCATION : Sar	
	O Investigation
.,	IDNE
MEIVICALS USED .	
	SAFETY TOPICS PRESENTED
AEETY TODICS · / , X /	SAFETY TOPICS PRESENTED DE WAZARDS, WEATHER, BUDDY SYSTEM, COMMUNICATIONS, SCIPS/TAIPS/FALLS
ALLIT TOTALES	2 MACI - 1 Carlot I C
PROTECTIVE CLOTHING/E	QUIPMENT: LEVED, HIGH VIS LONG SLEEKS
PROTECTIVE CLOTHING/E	QUIFIVIENT: 2000 ATT
CHEMICAL HAZARDS:	1-115
CHEMICAL HAZARDS.	7000
	OUGATEMAIN, SHAY METAL
PHYSICAL HAZARDS: N	OUGATEMAN, SANT METAL
PHYSICAL HAZARDS: N	OUGATEMAN, SANT METAL
PHYSICAL HAZARDS: AD	S: ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010
PHYSICAL HAZARDS: AD EMERGENCY PROCEDURE HOSPITAL: St. Johns Pleas	SS: Sant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 ADDRESS: 1851 N Lombard St. Suite 100, Oxnard, CA 93030
PHYSICAL HAZARDS: AD EMERGENCY PROCEDURE HOSPITAL: St. Johns Pleas	SS: Sant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 ADDRESS: 1851 N Lombard St. Suite 100, Oxnard, CA 93030
EMERGENCY PROCEDURE HOSPITAL : St. Johns Pleas CLINIC: U.S. Healthwo	SS: Sant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 ADDRESS: 1851 N Lombard St. Suite 100, Oxnard, CA 93030
PHYSICAL HAZARDS: AD EMERGENCY PROCEDURE HOSPITAL: St. Johns Pleas CLINIC: U.S. Healthwo	S: Sant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030 PHONE: 805-983-2234 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030
PHYSICAL HAZARDS: AD EMERGENCY PROCEDURE HOSPITAL: St. Johns Pleas CLINIC: U.S. Healthwo	S: Sant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 prks PHONE: 805-983-2234 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030 Call the CB&I Hot Line within the hour for any vehicle accident no matter how minor or an injury requiring
PHYSICAL HAZARDS: ADDRESS OF THE PHYSICAL HAZARDS OF THE PHYSICAL HAZ	S: Sant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030 PHONE: 805-983-2234 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030

10/8/14

0/8/19 ATTENDEES			EXCLUSION ZONE					
NAME	COMPANY	SIGNATURE	IN	OUT	IN	OUT		
	CBSI	8la	0750					
Edord Ricks	CB+I	B4810	6730					
DAN PRINGLE	CB4I	Daniel Whrenale	0730					
Ian Williams	NPS) William	0730					
BRION WILLTC	CB&I	BCL	0730					
MARK KICK	CFS	Made Kick	0730	· ·				
THE RICK		7/555						
						-		
						-		

TAILGATE SAFETY MEETING/ EXCLUSION ROSTER	
DIVISION / SUBSIDIARY : CB&I Federal Services FACILITY : San Miguel Island	
Date: 10/9/14 TIME: 0730 JOB NUMBER: 500265	
CUSTOMÉR: NAVFAC SW	
SPECIFIC LOCATION: San Miguel Island	
TYPE OF WORK: UXO Investigation	
CHEMICALS USED: NOWF.	
SAFETY TOPICS PRESENTED	
SAFETY TOPICS: UXO SAFETY, SCIPS TRIPS FACIS, MANUAL LIFTLY	
and the second s	
PROTECTIVE CLOTHING/EQUIPMENT: LAKELD HIGH VIS LONG SLEEVES	
CHEMICAL HAZARDS: No-6	
The state of the s	
PHYSICAL HAZARDS: NUGGED STEED TENNAIN. WATEN I NOCKS	
EN SER CENCY PROCEDURES.	
EMERGENCY PROCEDURES :	
HOSPITAL: St. Johns Pleasant Valley Hospital PHONE: 805-389-5800 ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010	
The second of th	
CLINIC: U.S. Healthworks PHONE: 805-983-2234 ADDRESS: 1851 N. Lombard St., Suite 100, Oxnard, Cr. 3566	
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 TA ANSETS, DGM SUNVEY	

10/9/14

		ATTENDEES	EXCLUSION ZONE					
NAME	COMPANY	SIGNATURE	IN	OUT	IN	OUT		
SHAWN MOVER	CBS I	82-	0750					
Richard Ricks	CB+I	Andre	0730					
BRIAN WHITE	CB&I	The state of the s	6730					
MARK KICK	CF5	Mark Kick	0730					
MARK Kick Ian Williams	NPS	Lankrilliam	0736					
DAN PRINGLE	CFS	Dan Bringle	0730					
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					Para Talante			

TAIL	GATE SAFET	Y MEETI	NG/ EXCLUSION ROSTER
	CB&I Federal Services	FACILITY: San M	
DIVISION / SUBSIDIARY :	TIME: 0730		JOB NUMBER: 500265
Date: 10/10/14	AVFAC SW		
COSTONIENT			
SPECIFIC LOCATION : San Migu			
TYPE OF WORK : UXO Inve			
CHEMICALS USED: NONE			
	SAFETY TOP	PICS PRESENTED	
CAFETY TODICS	SAFETY, XIPS	TA 105 FALL	S, MANUAL LIFTING, HOT WEATHER
SAFETY TOPICS: UXO	Spicy, wifs	1004-110	3 / 1/1/20
CHEMICAL HAZARDS : 100		renals, m	ouse prophuls
EMERGENCY PROCEDURES :			
HOSPITAL: St. Johns Pleasant V CLINIC: U.S. Healthworks		805-389-5800 805-983-2234	ADDRESS: 2309 Antonio Ave, Camarillo, CA 93010 ADDRESS: 1851 N. Lombard St, Suite 100, Oxnard, CA 93030
SPECIAL EQUIPMENT :			the relies or an injury requiring
SPECIAL INSTRUCTIONS: Call t	he CB&I Hot Line within the off-site treatment. 866-299	hour for any vehicl 9-3445	e accident no matter how minor or an injury requiring
Work Activity: UXO 1/1			V
VVOIR Activity.	, , ,	000	

10/10/14

COMPANY	SIGNATURE	IN	OUT	101	
rest			001	IN	OUT
() (-	Sta	0730			
NPS	Lan William	0730			
	Dan Pringle	0730			
CBLI	guil	0738			
CAT	1 Bloom	6730			
(FS	Mark Kick	0730			
			EIII A	4	
					-
	CB4I CBXI CBXI	CB4I Dan Bringle CB4I Dec	CB4I Dan Bringle 0730 CB4I De 6730	CB4I Dan Pringle 0730 CB4I De 0738 CB4I 6730	CB4I Dan Bringle 0730 CB4I SC 0738 CB4I 15C 6730



Project name: San Miguel Island (SMI)

JOB SAFETY ANALYSIS TAILGATE SAFETY MEETING

COMBINATION FORM

JOB#:

JSA Date: $\left| \overline{O} \right| \left| \zeta \right| / \sqrt{1}$

ACTIVITY DESCRIPTION:

Date Revised:

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 safetyl-toed boots. PRINCIPLE TASKS, STEPS POTENTIAL HEALTH/SAFETY HAZARDS RECOMMENDED CONTROLS Surface sweep, DGM Survey Slips/Trips/Falls Visually inspect areas, Traverse	Client: NAVFAC	(Olvii)		UXO Surface sweep, DGM Survey and		
Hospital Name: SI 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 safetyl-toed boots. PRINCIPLE TASKS, STEPS POTENTIAL HEALTH/SAFETY HAZARDS Surface sweep, DGM Survey and Mag/Dig Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment Heat Stress Drink plenty of fluids, wear Proper clothing. Hand injuries Prover lifting – keep back straight, lift with legs, only lift 60 lbs Drink plenty of fluids, wear Proper clothing. Wear proper gloves; Be aware of pinch points and sharp edges. EQUIPMENT TO BE USED INSPECTION REQUIREMENTS Daily prior to use EN-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 ATTENDEES' Signatures	Preparer(s):Shawn Meyer	Mag/Dig				
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 safetyl-toed boots. PRINCIPLE TASKS, STEPS POTENTIAL HEALTH/SAFETY HAZARDS Surface sweep, DGM Survey and Mag/Dig Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment Heat Stress Drink plenty of fluids, wear Proper clothing. Hand injuries Proper lifting – keep back straight, lift with legs, only lift 60 lbs Drink plenty of fluids, wear Proper clothing. Wear proper gloves; Be aware of pinch points and sharp edges. EQUIPMENT TO BE USED Power/ Hand tools Daily prior to use Schoenstadt Daily prior to use Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 TTENDEES' Signatures	1 ''					
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 safetyl-toed boots. PRINCIPLE TASKS, STEPS POTENTIAL HEALTH/SAFETY HAZARDS Surface sweep, DGM Survey and Mag/Dig Biological Hazards; Hantavirus; Black Widow spiders; ticks Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment 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 Power/ Hand tools Schoenstadt Daily prior to use Schoenstadt Daily prior to use EM-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 TINITEDEES' Signatures						
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 safetyl-toed boots. PRINCIPLE TASKS, STEPS POTENTIAL HEALTH/SAFETY HAZARDS Surface sweep, DGM Survey and Mag/Dig Biological Hazards; Hantavirus; Black Widow spiders; ticks Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment 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 Power/ Hand tools Schoenstadt Daily prior to use Schoenstadt Daily prior to use EM-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 TINITEDEES' Signatures	·	•	Camarillo, Ca 93010	Supervisor:		
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 safetyl-toed boots. PRINCIPLE TASKS, STEPS POTENTIAL HEALTH/SAFETY HAZARDS Surface sweep, DGM Survey and Mag/Dig Biological Hazards; Hantavirus; Black Widow spiders; ticks Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment 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 Power/ Hand tools Schoenstadt Daily prior to use Schoenstadt Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 ATTENDEES' Printed Names Comments: RECOMMENDED CONTROLS Nisually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift with legs, only lift 60 lbs Drink plenty of fluids, wear Proper clothing. Wear proper gloves; Be aware of pinch points and sharp edges. TRAINING REQUIREMENTS OSHA 40hr and 8hr Refresher cert. UXO certification UXO certification EM-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730				Initials:		
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Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safetyl-toed boots. PRINCIPLE TASKS, STEPS Surface sweep, DGM Survey and Mag/Dig Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment with legs, only lift 60 lbs Heat Stress FOUIPMENT TO BE USED INSPECTION REQUIREMENTS Power/ Hand tools Schoenstadt Daily prior to use EM-61 Tailgate Safety Meeting Conducted by: Shawn Meyer DTENTION REQUIREMENT Names POTENTIAL HEALTH/SAFETY HAZARDS RECOMMENDED CONTROLS Visually inspect areas, Traverse slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift with legs, only lift 60 lbs Proper gloves; Be aware of pinch points and sharp edges. TRAINING REQUIREMENTS OSHA 40hr and 8hr Refresher cert. UXO certification UXO certification Time: 0730 OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names ATTENDEES' Signatures	Emergency Evacuation route: Qu	uickest	means upwind of site	Comments:		
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Biological Hazards; Hantavirus; Black Widow spiders; ticks Strains from manually moving materials and equipment Heat Stress Hand injuries EQUIPMENT TO BE USED Power/ Hand tools Daily prior to use Schoenstadt Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer OTHER TOPICS DISCUSSED: Biological Hazards; Hantavirus; Black Inspect areas for signs of mice; wear insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift with legs, only lift 60 lbs Drink plenty of fluids, wear Proper clothing. Wear proper gloves; Be aware of pinch points and sharp edges. TRAINING REQUIREMENTS OSHA 40hr and 8hr Refresher cert. UXO certification ATTENDEES' Signatures ATTENDEES' Signatures	Surface sweep, DGM Survey	Slips/	Trips/Falls	Visually inspect areas, Traverse		
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Hand injuries Wear proper gloves; Be aware of pinch points and sharp edges. EQUIPMENT TO BE USED INSPECTION REQUIREMENTS Power/ Hand tools Daily prior to use Schoenstadt Daily prior to use Daily prior to use UXO certification EM-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names Wear proper gloves; Be aware of pinch points and sharp edges. UXO certification Date: 10/13/14 Time: 0730 ATTENDEES' Signatures		Heat :	Stress	, ,		
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Power/ Hand tools Schoenstadt Daily prior to use UXO certification EM-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names OSHA 40hr and 8hr Refresher cert. UXO certification Date: 10/13/14 Time: 0730 ATTENDEES' Signatures				pinch points and sharp edges.		
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EM-61 Daily prior to use Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names ATTENDEES' Signatures						
Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/13/14 Time: 0730 OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names ATTENDEES' Signatures				UXO certification		
OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names ATTENDEES' Signatures				D 40/40/44 T' 0700		
Buddy system Snawn Meyer 8		.D:		ATTENDEES' Signatures		
Dedic communications Mark Visit			,	8		
Radio communications Mark Kick Mark Kick	Radio communications		Mark Kick	Mark Rich		
Richard Ricks			Richard Ricks	A CONTRACTOR OF THE PARTY OF TH		
Joel Sivertsen			Joel Sivertsen	On June 1		
0. 10 10 2				0 10 10 1		



COMBINATION FORM

JOB#:

JSA Date:

10/14/14 Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: Phone: (805) 389-5800 Initials: Time of inspection: Ambulance Phone: 911 Comments: 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 safetyl-toed boots. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, DGM Survey Slips/Trips/Falls Visually inspect areas, Traverse and Mag/Dig slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear Biological Hazards; Hantavirus; Black Widow spiders; ticks insect repellent tick gaiters, sun Strains from manually moving materials Proper lifting – keep back straight, lift and equipment with legs, only lift 60 lbs **Heat Stress** Drink plenty of fluids, wear Proper clothina. Hand injuries Wear proper gloves; Be aware of pinch points and sharp edges. **EQUIPMENT TO BE USED** INSPECTION REQUIREMENTS TRAINING REQUIREMENTS Power/ Hand tools OSHA 40hr and 8hr Refresher cert. Daily prior to use 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 Radio communications Mark Kick Richard Ricks Joel Sivertsen



Client: NAVFAC

JOB SAFETY ANALYSIS **TAILGATE SAFETY MEETING**

JOB#:

JSA Date: 10/16/14

Date Revised:

COMBINATION FORM

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach)

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) Initials:

Supervisor:

Time of inspection: 7:30 Comments:

Initial Dequired DDF: Lovel D. Hats Safety places Leather player and safety tood hoots

Initial Required PPE: Level D – Hats, Safety glasses, Leather gloves, and safety-toed boots.								
PRINCIPLE TASKS, STEPS	POTE	NTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS					
Surface sweep, DGM Survey	Slips/	Trips/Falls	Visually inspect areas, Traverse					
and Mag/Dig			slowly over uneven terrain, maintain					
			good housekeeping.					
		jical Hazards; Hantavirus; Black	Inspect areas for signs of mice; wear					
	Widov	v spiders; ticks	insect repellent tick gaiters, sun					
			screen.					
	1	s from manually moving materials	Proper lifting – keep back straight, lift					
		quipment	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		prior to use	OSHA 40hr and 8hr Refresher cert.					
Schonstedt		prior to use	UXO certification					
EM-61		prior to use	ONO CERTIFICATION					
Tailgate Safety Meeting Conduc		Shawn Meyer	Date: 10/15/14 Time: 0730					
OTHER TOPICS DISCUSSE		ATTENDEES' Printed Names	ATTENDEES' Signatures					
Buddy system		Shawn Meyer	711 ENDEED SIGNATOR					
Radio communications		Mark Kick						
		Richard Ricks						
		Joel Sivertsen						



COMBINATION FORM

JOB#:

JSA Date: 10/16/14

Date Revised:

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



COMBINATION FORM

JOB#:

JSA Date: 10/17/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: 2 Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, DGM Survey Slips/Trips/Falls Visually inspect areas, Traverse and Mag/Dig slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear Biological Hazards; Hantavirus; Black Widow spiders; ticks insect repellent tick gaiters, sun Strains from manually moving materials Proper lifting – keep back straight, lift and equipment with legs, only lift 60 lbs **Heat Stress** Drink plenty of fluids, wear Proper clothina. Hand injuries Wear proper gloves; Be aware of pinch points and sharp edges. **EQUIPMENT TO BE USED** INSPECTION REQUIREMENTS TRAINING REQUIREMENTS Power/ Hand tools OSHA 40hr and 8hr Refresher cert. Daily prior to use Schonstedt Daily prior to use **UXO** certification EM-61 Daily prior to use Date: 10/17/14 Tailgate Safety Meeting Conducted by: Shawn Meyer Time: 0730 ATTENDEES' Signatures OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names Buddy system Shawn Meyer Radio communications Mark Kick Richard Ricks Joel Sivertsen



COMBINATION FORM

JOB#:

JSA Date: 10/20/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, DGM Survey Slips/Trips/Falls Visually inspect areas, Traverse and Mag/Dig slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear Biological Hazards; Hantavirus; Black Widow spiders; ticks insect repellent tick gaiters, sun Strains from manually moving materials Proper lifting – keep back straight, lift and equipment with legs, only lift 60 lbs **Heat Stress** Drink plenty of fluids, wear Proper clothina. Hand injuries Wear proper gloves; Be aware of pinch points and sharp edges. **EQUIPMENT TO BE USED** INSPECTION REQUIREMENTS TRAINING REQUIREMENTS Power/ Hand tools OSHA 40hr and 8hr Refresher cert. Daily prior to use Schonstedt Daily prior to use **UXO** certification EM-61 Daily prior to use Time: 0730 Tailgate Safety Meeting Conducted by: Shawn Meyer Date: 10/20/14 ATTEMDEES' Signatures OTHER TOPICS DISCUSSED: ATTENDEES' Printed Names Buddy system Shawn Meyer Radio communications Mark Kick Richard Ricks Joel Sivertsen



COMBINATION FORM

JOB#:

JSA Date: 10/21/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, Reacquire and UXU Observe all UXO safety precautions, Excavate DGM targets dig to the side, positively ID items before moving. Visually inspect areas, Traverse Slips/Trips/Falls slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear Biological Hazards; Hantavirus; Black Widow spiders; ticks insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift Strains from manually moving materials and equipment with legs, only lift 60 lbs Drink plenty of fluids, wear Proper **Heat Stress** clothina. Hand injuries Wear proper gloves; Be aware of pinch points and sharp edges. **EQUIPMENT TO BE USED** Power/ Hand tools **INSPECTION REQUIREMENTS** TRAINING REQUIREMENTS Schonstedt OSHA 40hr and 8hr Refresher cert. Daily prior to use EM-61 Daily prior to use **UXO** certification Tailgate Safety Meeting Daily prior to use Conducted by: Shawn Meyer Date: 10/21/14 Time: 0730 OTHER TOPICS DISCUSSED: **Buddy system** ATTENDEES' Printed Names ATTENDEES' Signatures Radio communications Shawn Meyer Mark Kick Richard Ricks

Joel Sivertsen



COMBINATION FORM

JOB#:

JSA Date: 10/22/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: \(\square Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, Reacquire and UXU Observe all UXO safety precautions, **Excavate DGM targets** dig to the side, positively ID items before moving. Visually inspect areas, Traverse Slips/Trips/Falls slowly over uneven terrain, maintain good housekeeping. Biological Hazards; Hantavirus; Black Inspect areas for signs of mice; wear Widow spiders; ticks insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift Strains from manually moving materials and equipment with legs, only lift 60 lbs Drink plenty of fluids, wear Proper **Heat Stress** clothina. Wear proper gloves; Be aware of Hand injuries pinch points and sharp edges. **EQUIPMENT TO BE USED** Power/ Hand tools **INSPECTION REQUIREMENTS** TRAINING REQUIREMENTS Schonstedt OSHA 40hr and 8hr Refresher cert. Daily prior to use EM-61 Daily prior to use **UXO** certification Tailgate Safety Meeting Daily prior to use Conducted by: Shawn Meyer Date: 10/22/14 Time:0730 OTHER TOPICS DISCUSSED: **Buddy system ATTENDEES' Printed Names** ATTENDEES' Signatures Radio communications Shawn Meyer Mark Kick Richard Ricks Joel Sivertsen



COMBINATION FORM

JOB#:

JSA Date: 10/23/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor:4 Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, Reacquire and UXO Observe all UXO safety precautions, Excavate DGM targets dig to the side, positively ID items before moving. Visually inspect areas, Traverse Slips/Trips/Falls slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear Biological Hazards; Hantavirus; Black Widow spiders; ticks insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift Strains from manually moving materials and equipment with legs, only lift 60 lbs Drink plenty of fluids, wear Proper **Heat Stress** clothina. Hand injuries Wear proper gloves; Be aware of pinch points and sharp edges. **EQUIPMENT TO BE USED** Power/ Hand tools **INSPECTION REQUIREMENTS** TRAINING REQUIREMENTS Schonstedt OSHA 40hr and 8hr Refresher cert. Daily prior to use EM-61 Daily prior to use **UXO** certification

OTHER TOPICS DISCUSSED:

Time:0730

Conducted by: Shawn Meyer

Tailgate Safety Meeting

Date: 10/23/14

Buddy system	ATTENDEES' Printed Names	ATTEMBEES' Signatures
Radio communications	Shawn Meyer	8977
	Mark Kick	Mark. ch
	Richard Ricks	
	Joel Sivertsen	I live to

Daily prior to use



JOB#:

JSA Date: 10/24/14

COMBINATION FORM

Date Revised:

Project nam	ne: San	Miguel Island (SMI)	ACTIVITY DESCRIPTION:
Client: NAVFAC			UXO Surface sweep, DGM Survey and
Preparer(s):Shawn Meyer			Mag/Dig
<u>EMERGEN</u>	CY INF	O (list below or attach)	
Hospital Name: St Johns Hos	•		
Address: 2309 Antonio		Camarillo, Ca 93010	Supervisor:
Phone: (805) 389-58	00		Initials:
Ambulance Phone: 911			Time of inspection: 7:30 Comments:
Emergency Evacuation route: Qu			Confinents.
Assembly point: SMI Ranger Sta			
	1	afety glasses, Leather gloves, and safet	
PRINCIPLE TASKS, STEPS		NTIAL HEALTH/SAFETY HAZARDS	RECOMMENDED CONTROLS
Surface sweep, Reacquire and	UXO		Observe all UXO safety precautions,
Excavate DGM targets			dig to the side, positively ID items
	011 .	T. (E.))	before moving.
	Slips/	Trips/Falls	Visually inspect areas, Traverse
			slowly over uneven terrain, maintain
	D'.I.	Sallia and Haria San Blad	good housekeeping.
		gical Hazards; Hantavirus; Black	Inspect areas for signs of mice; wear
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	v spiders; ticks	insect repellent tick gaiters, sun
	Ctroin	o from manually maying materials	Screen.
		s from manually moving materials	Proper lifting – keep back straight, lift
		quipment Stress	with legs, only lift 60 lbs
	пеас	211 <i>622</i>	Drink plenty of fluids, wear Proper clothing.
	Hand	injuries	Wear proper gloves; Be aware of
		•	pinch points and sharp edges.
EQUIPMENT TO BE USED			
Power/ Hand tools		INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Schonstedt	Daily	prior to use	OSHA 40hr and 8hr Refresher cert.
EM-61	Daily	prior to use	UXO certification
Tailgate Safety Meeting	Daily	prior to use	
Conducted by: Shawn Meyer			
Date: 10/24/14 Time:0730			
OTHER TOPICS DISCUSSED:		ATTENDEFO.S	
Buddy system		ATTENDEES' Printed Names	ATTENDEES' Signatures
Radio communications		Shawn Meyer	86-7
		Mark Kick	Mark-de
		Richard Ricks	666 C
		Joel Sivertsen	Jol Sweets
			U



COMBINATION FORM

JOB#:

JSA Date: 10/27/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, Reacquire and UXU Observe all UXO safety precautions, **Excavate DGM targets** dig to the side, positively ID items before moving. Visually inspect areas, Traverse Slips/Trips/Falls slowly over uneven terrain, maintain good housekeeping. Inspect areas for signs of mice; wear Biological Hazards; Hantavirus; Black Widow spiders; ticks insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift Strains from manually moving materials and equipment with legs, only lift 60 lbs Drink plenty of fluids, wear Proper **Heat Stress** clothina. Wear proper gloves; Be aware of Hand injuries pinch points and sharp edges. **EQUIPMENT TO BE USED** Power/ Hand tools **INSPECTION REQUIREMENTS** TRAINING REQUIREMENTS Schonstedt OSHA 40hr and 8hr Refresher cert. Daily prior to use EM-61 Daily prior to use **UXO** certification **Tailgate Safety Meeting** Daily prior to use Conducted by: Shawn Meyer Date: 10/27/14 Time:0730 OTHER TOPICS DISCUSSED: **Buddy system ATTENDEES' Printed Names** ATTEMDEES' Signatures Radio communications Shawn Meyer Dan Pringle Richard Ricks Joel Sivertsen Ian Williams



COMBINATION FORM

JOB#:

JSA Date: 10/28/14

Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, Reacquire and UXU Observe all UXO safety precautions, **Excavate DGM targets** dig to the side, positively ID items before moving. Visually inspect areas, Traverse Slips/Trips/Falls slowly over uneven terrain, maintain good housekeeping. Biological Hazards; Hantavirus; Black Inspect areas for signs of mice; wear Widow spiders; ticks insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift Strains from manually moving materials and equipment with legs, only lift 60 lbs Drink plenty of fluids, wear Proper **Heat Stress** clothina. Wear proper gloves; Be aware of Hand injuries pinch points and sharp edges. **EQUIPMENT TO BE USED** Power/ Hand tools **INSPECTION REQUIREMENTS** TRAINING REQUIREMENTS Schonstedt OSHA 40hr and 8hr Refresher cert. Daily prior to use EM-61 Daily prior to use **UXO** certification Tailgate Safety Meeting Daily prior to use Conducted by: Shawn Meyer Date: 10/28/14 Time:0730 OTHER TOPICS DISCUSSED: **Buddy system ATTENDEES' Printed Names** ATTENDEES' Signatures Radio communications Shawn Meyer Dan Pringle Richard Ricks Joel Sivertsen Ian Williams



COMBINATION FORM

JOB#:

JSA Date: 10/29/14

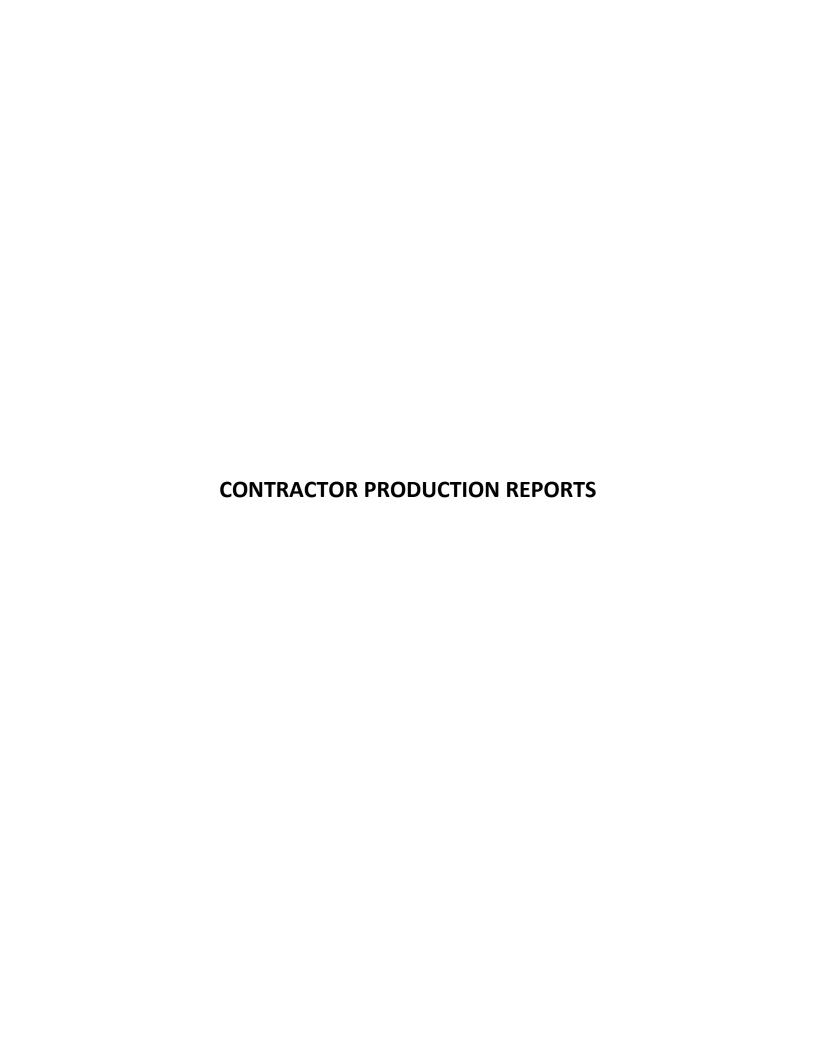
Date Revised:

Project name: San Miguel Island (SMI) **ACTIVITY DESCRIPTION:** UXO Surface sweep, DGM Survey and Client: NAVFAC Mag/Dig Preparer(s):Shawn Meyer EMERGENCY INFO (list below or attach) Hospital Name: St Johns Hospital Address: 2309 Antonio Ave, Camarillo, Ca 93010 Supervisor: Phone: (805) 389-5800 Initials: Time of inspection: 7:30 Ambulance Phone: 911 Comments: 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. POTENTIAL HEALTH/SAFETY HAZARDS PRINCIPLE TASKS, STEPS RECOMMENDED CONTROLS Surface sweep, Reacquire and UXU Observe all UXO safety precautions, Excavate DGM targets dig to the side, positively ID items before moving. Visually inspect areas, Traverse Slips/Trips/Falls slowly over uneven terrain, maintain good housekeeping. Biological Hazards; Hantavirus; Black Inspect areas for signs of mice; wear Widow spiders; ticks insect repellent tick gaiters, sun screen. Proper lifting – keep back straight, lift Strains from manually moving materials and equipment with legs, only lift 60 lbs Drink plenty of fluids, wear Proper **Heat Stress** clothina. Wear proper gloves; Be aware of Hand injuries pinch points and sharp edges. **EQUIPMENT TO BE USED** Power/ Hand tools **INSPECTION REQUIREMENTS** TRAINING REQUIREMENTS Schonstedt OSHA 40hr and 8hr Refresher cert. Daily prior to use EM-61 Daily prior to use **UXO** certification Tailgate Safety Meeting Daily prior to use Conducted by: Shawn Meyer Date: 10/29/14 Time:0730 OTHER TOPICS DISCUSSED: **Buddy system ATTENDEES' Printed Names** ATTENDEES' Signatures Radio communications Shawn Meyer Dan Pringle Richard Ricks Joel Sivertsen Ian Williams

FINAL COMPLETION REPORT UXO SURVEY SAN MIGUEL ISLAND, CALIFORNIA PROJECT NO. 500265

APPENDIX D

Contractor Report Documentation



NAMEAC	CLIENT	1		DATE	10/5/2014	
NAVFAC				SHEET	1 of 1	
San Miguel Island						
San Miguel Island Field Activity: Mobe in Company Name: CB&I Fede	ral Services					
Company Hame: Coar I can		an Cita			COMMUNITED	
Name	CB&I Personnel Titl		Hours Worked		COMMENTS	
Dan Pringle Shawn Meyer Richard Ricks	Project Manage	<u> </u>	10			
Snawn Meyer	SUXSOS		10			
Richard Ricks	UXOQC		10			
Mark Kick	Geophysicist		10			
Brian White	Engineer		10			
					WEATHER EVENTS	
	Equipment on S	Site				
Type of Equipment	Equipment on	Mob Date	Hours Worked			
3 x Schoenstadts		10/5/2014	riodio Workod			
2 x MineLabs all metals	locators	10/5/2014				
2 x EM61 metal detecto		10/5/2014				
1 X GPS Base Station	13	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				
2 X GEO / X GPS		10/5/2014				
			Today's Activities:			
0730- Supply runs, equ	uipment organiza	ation	roday a Activities.			
0730- Supply runs, equ 1300- Safety Meeting	pe.gu					
1330- Load and transp	ort equipment a	nd pax to Cha	nnel Islands Aviat	ion		
1400- Load 2 x islande		To post to other				
1430- Depart Camarillo						
1530- Arrive Ranger St		an Miguel Isla	nd, begin gear do	wnload and	prep	
1630- Island familiarity		an ingaoi iola	ina, bogin goar ao		р. ор	
1800- Secure from gea		av				
1000 Occure from gea	ii prop. Ena or ac	a y				
NA/E A TILLE	D CONDITIONS			DI 4110 411	000000000000000000000000000000000000000	
	ER CONDITIONS		CHANGES FROM	PLANS ANI	SPECIFICATIONS:	
Clear and Warm			IMPORTANT TE		110	
			IMPORTANT TEL	EPHONE CA	ALLS:	
SIGNATURE:	Shawn Meyer					10/5/2014
		1	1	1		

CLIENT					10/6/2014	
NAVFAC				DATE SHEET	1 of 1	1
San Miguel Island						•
Field Activity: UXO sweep or		ey .				
Company Name: CB&I Fede	ral Services					
	CB&I Personnel on Site					
Name	Title	!	Hours Worked			
Dan Pringle	Project Manager		11	All surface	sweep operations are	conducted
Shawn Meyer	SUXSOS		11		dt assisted to a width o	
Richard Ricks	UXOQC		11	1		
Mark Kick	Geophysicist		11	1		
Brian White	Engineer		11	1		
Briair Willie	Liigiiiooi		11	1		
				4		
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				_		
				_		
				_		
				1		
					WEATHER EVENTS	
				-		
		-				
Type of Equipment	Hours Worked	1				
3 x Schoenstadts		Mob Date 10/5/2014		1		
2 x MineLabs all metals	locators	10/5/2014		1		
2 x EM61 metal detector		10/5/2014		1		
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		-		
2 X GEO / X GPS		10/5/2014		4		
			Today's Activities:			
0730- Tailgate Safety N	leeting JSA revie	w and sign	Today's Activities.			
0800-GPS setup, Scho			detectors tested I	VS setun		
1000- surface sweep fr			detectors tested, r	vo scrap		
1200- Lunch	om ranger station	i to beach				
1230- EM61 setup and	tost					
1500- surface sweep a		ryov of old r	anah haysa trail d	and sampa	round area	
			anch nouse trail, a	and campy	iouiiu area	
1900- Secure from ope	rations, End of d	ау				
WEATHE	R CONDITIONS		CHANGES FROM	I PLANS AI	ND SPECIFICATIONS:	
			IMPORTANT TEL	EPHONE O	CALLS:	
SIGNATURE.	Chown Marian					40/0/004 4
SIGNATURE:	Shawn Meyer					10/6/2014

CLIENT					DATE 10/7/2014			
NAVFAC				SHEET	1 of 1			
San Miguel Island						•		
Field Activity: UXO sweep		ey						
Company Name: CB&I Fed								
	CB&I Personnel of		•	COMMENIS				
Name	Title)	Hours Worked					
Dan Pringle	Project Manager		10		sweep operations are			
Shawn Meyer	SUXSOS		10	Schoensta	dt assisted to a width	of 6 feet.		
Richard Ricks	UXOQC		10					
Mark Kick	Geophysicist		10					
Brian White	Engineer		10					
					WEATHER EVENTS			
				1				
	Equipment on S	ite						
Type of Equipment		Mob Date	Hours Worked					
3 x Schoenstadts		10/5/2014		1				
2 x MineLabs all metals	s locators	10/5/2014						
2 x EM61 metal detector	ors	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						
0700 T ''			Today's Activities:					
0730- Tailgate safety					and DOM assessed			
0800- Depart ranger s			ardweii traii. Suri	ace sweep	and DGW Survey of	raii		
1430- DGM survey ha			d of Conducal trail	by ask asm	-4			
1500- Detected Suspe			d of Cardwell trail	by schoen	ISTAUT.			
1530- Cardwell point		ace swept						
1630- begin hike back 1730- Arrive at ranger		nt tooting on	d storogo					
1800- End of day	Station, equipme	nt testing and	u storage					
1600- Elia di day								
\ ∧/⊏∧ ∓⊔	ER CONDITIONS		CHANGES EDOM	I DI ANG AR	ID SDECIEICATIONS			
WEATH	FIV COMPLIANS		CHANGES FRUIV	I FLANS A	ND SPECIFICATIONS) .		
			IMPORTANT TEL	EDHUNE (`ΔΙΙ S ·			
Clear skies in AM givi	ing way to high wi	nds and fog	INTOKIANI IEL	LETIONE C	ALLU.			
SIGNATURE:	Shawn Meyer					10/7/2014		

CLIENT					10/8/2014	
NAVFAC					1 of 1	
San Miguel Island						
Field Activity: UXO sweep op Company Name: CB&I Federa		еу				
Company Name: CB&I Federa						
A1	CB&I Personnel o		11. 347 1 1		COMMENTS	
Name	Title		Hours Worked	A.II	/110/0	
Dan Pringle	Project Manager		10		/ UXO sweep operation	
Shawn Meyer	SUXSOS		10	Schoensta	dt assisted to a width o	of 6 feet.
Richard Ricks	UXOQC		10			
Mark Kick	Geophysicist		10]		
Brian White	Engineer		10]		
]		
				1		
				Ī		
				Ī		
				1		
				1		
				1		
					WEATHER EVENTS	
	Equipment on Si	ite		Į.		
Type of Equipment	=qaipinoin on oi	Mob Date	Hours Worked	1		
3 x Schoenstadts		10/5/2014		1		
2 x MineLabs all metals l	ocators	10/5/2014		1		
2 x EM61 metal detectors		10/5/2014		1		
1 X GPS Base Station	<u> </u>	10/5/2014				
2 X GPS Rover		10/5/2014				
3 x CBI Radios		10/5/2014		1		
2 x GEO 7X GPS		10/5/2014		1		
Z A GEO / A GPO		10/5/2014		ł		
			Today's Activities:	<u> </u>		
0730- Tailgate safety br	ief. Schoenstad	ts, EM61 and		checked		
0800- Depart ranger sta					EM61 DGM survey of	Cardwell point
0800- Begin DGM surve						
0800- UXO + Ranger de				est end of	SMI, below the south	fox pen area
1130- collapsed shack	•					
1230- Discover BDU tai					<u> </u>	
1330- Discover BDU on			•		teau	
1400- Discover BDU on	.					
1500- DGM crew compl						
1500- UXO transitions t						
1600- DGM survey of So			. p			
1700- UXO transects an			nin transit to range	er station	Secure from runway I	DGM SURVAV
1800- Arrive ranger stat					Social Homerunway I	John Survey
1900-2000- SSA training		testing and S	toraye. Lilu or day	у.		
1900-2000- SSA training	d					
\A/C A T! !C!	D CONDITIONS		CHANGES EDOL	DI ANO A	ID CDECIFICATIONS	
WEATHE	R CONDITIONS		CHANGES FROM	PLANS AI	ND SPECIFICATIONS:	
			IMPORTANT TE	EDUANE 1	NALL C.	
Clear skies in AM giving	g way to high wi	nds and foo	IMPORTANT TEL	EPHONE (ALLS:	
J.Sai Sidos III Alli givili	a, to mgn wi	and log]			
SIGNATURE:	Shawn Meyer					10/8/2014
	-					

CLIENT					DATE 10/9/2014				
NAVFAC					1 of 1				
San Miguel Island									
Field Activity: UXO swee		/ey							
Company Name: CB&I F									
Nome	CB&I Personnel		Llouro Works d		COMMENTS				
Name Dan Dringle	Titl		Hours Worked	All	/11//0				
Dan Pringle	Project Manage		10 10		/ UXO sweep operation				
Shawn Meyer Richard Ricks	SUXSOS UXOQC		10	Schoensta	ndt assisted to a width o	or 6 reet.			
Mark Kick			10						
Brian White	Geophysicist		10						
Dilaii Wille	Engineer		10						
				Woot Cuyl	er beach not DGM sur	royad dua ta			
					e rock fall midway dow	•			
					e fock fall filldway dow schoenstadt	ii beacii. Alea			
				Swept by S	ochoenstaut				
				1					
				1					
				1					
				1					
				1					
					WEATHER EVENTS				
	Equipment on S	Site							
Type of Equipment	• •	Mob Date	Hours Worked	1					
3 x Schoenstadts		10/5/2014							
2 x MineLabs all met	als locators	10/5/2014							
2 x EM61 metal dete	ctors	10/5/2014							
1 X GPS Base Station	n	10/5/2014							
2 X GPS Rover		10/5/2014							
3 x CBI Radios		10/5/2014		1					
2 x GEO 7X GPS		10/5/2014							
0700 Tailmata aafat	to build Oak assets	de EMC4 and	Today's Activities:						
0730- Tailgate safet			Communications	s спескеа					
0800- Depart range			acab Bagin DCI	Maumon					
0830- Install "island 0900- Install "island					act Cuylor booch				
1130- Install "island									
					om beach to cape be	nchmark			
	yler harbor from sui		-			IIOIIIIIIIII			
1700- Break down									
1730- Arrive at rang				i tho mgm					
1800- End of day.	jor otationi root and	. ctoro oquipii							
ioco ina or day.									
WEA	THER CONDITIONS		CHANGES FROM	I PLANS AI	ND SPECIFICATIONS				
			IMPORTANT TEL	EPHONE C	CALLS:				
Clear skies in AM g	iving way to high w	inds and fog	i						
SIGNATURE:	Shawn Meyer					10/9/2014			

CLIENT				DATE	10/10/2014	
NAVFAC						
San Miguel Island						
Field Activity: UXO swee Company Name: CB&I Fe		ey, DEMOB				
Company Name. CB&I F		0'/-			CONTRACT BLICE	
Name	CB&I Personnel Title		Hours Worked		COMMENTS	
			10	All ourfood	/ LIVO avvoca caparatio	no are conducted
Dan Pringle Shawn Meyer	Project Manager SUXSOS		10		e/ UXO sweep operation at assisted to a width of	
Richard Ricks	UXOQC		10	Schoensia	idi assisted to a widin t	or o reet.
Mark Kick	Geophysicist		10	-		
Brian White	Engineer		10			
brian write	Engineer		10			
				1		
				1		
				1		
				1		
				_		
					WEATHER EVENTS	
				4		
	Equipment on S	ite		-		
Type of Equipment		Mob Date	Hours Worked	1		
3 x Schoenstadts		10/5/2014		1		
2 x MineLabs all meta	als locators	10/5/2014				
2 x EM61 metal detec	ctors	10/5/2014				
1 X GPS Base Station	n	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		1		
0700 Tailmata aafat	alaist Oalassasta	II - FM04	Today's Activities:			
0730- Tailgate safety			Communications	s спескеа		
0800- Depart ranger			d Dongor Station	********		
0830- Begin DGM su					se grids and bluff are	as above Cuylor
					rail to the ranger stati	
1230- DGM survey of					rail to the ranger stati	<u> </u>
1300- Equipment tes						
1430- Channel Islan						
1630- Arrive at Cam				tel		
1800- End of day.						
WEAT	HER CONDITIONS		CHANGES FROM	I PLANS AI	ND SPECIFICATIONS	•
/(1			5	_ , to /\		=
			IMPORTANT TEL	EPHONE (CALLS:	
Clear skies in AM gi	ving way to high w	inds and fog	1		-	
CICNIATURE	Ch c 14					40/40/0044
SIGNATURE:	Shawn Meyer					10/10/2014

	C	ONTRACTOR PRODUCTION REPORT (ATTACH ADDITIONAL SHEETS IF NECESSARY) DATE:					
CONTRACT NO.: N62473-10-D-4009		TITLE AND LOCATION: San Miguel Island-UXO Investigation					Monday
CONTRACTOR:		Can wigger Island OXO investigation		SUPERINTENDENT:			
CB&I Federal Services, LLC AM WEATHER:		PM WEATHER:		Shawn Meyer MAX. TEMP:	-	MIN. TEMP: Deg. F	
Overcast		Overcast with fog WORK PERFORMED	TODAY	74	1	58	
Schedule Activity No.		WORK LOCATION AND DESCRIPTION Trade/Employee		EMPLOYER	NUMBER	TRADE	HRS
		Senior UXO Supervisor/Safety - Shawn Meyer Lead Geophysicist- Mark Kick		CB&I Federal Services CB&I Federal Services	1	SUXOS Geophysicist	10.0 10.0
		UXO Quality Control - Richard Ricks UXO Tech – Joel Sivertsen		CB&I Federal Services CB&I Federal Services	1	UXOQC UXO TECH II	10.0 10.0
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	32 33						
JOB		WAS A JOB SAFETY MEETING HELD THIS DATE?		✓ YES	∐NO	TOTAL WORK HOURS ON JOB SITE THIS DATE	40.00
SAFETY		WERE THERE ANY LOST TIME ACCIDENTS THIS DATE? (If YES attach copy of completed OSHA report)		YES	✓ NO	CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV				YES	✓ NO	PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
(If YES attach statement or checklist showing inspection perform WAS HAZARDOUS MATERIAL/WASTE RELEASED I		ENVIRONMENT?		☐ YES	✓ NO	START OF CONSTRUCTION	345.00
(If YES attach description of incident and proposed action.) LIST SAFETY ACTIONS TAKEN TODAY/SAFE	TY INSP	ECTIONS CONDUCTED				SAFETY REQU	JIREMENTS
Tailgate Safety Meeting Held in AM						HAVE BEE	EN MET.
EQUIPMENT/MATERIAL RECEIVED TODAY T							
3 x VHF radios programed to NPS	rreque	encies					
EQUIPMENT		HOURS Rental Rauipment	HOURS	EQUIPMENT		MILEAGE	
All Metals Detectors (2) Schoenstedts (5)		EM-61MK2As (2) GPS Base Station					
Radios (6) Trimble GeoXH (2)		GPS Rover Units (2)					
		* Denotes hour meter not working					
Conducted daily tailgate safety moetin	a prior	to commencing work. Tested EM61, 2 x Schoenstac	dto and 1 v mi	nolohe all motale locat	or Conduc	ated DCM surveys of t	no trail loading to
		transects from the same trail to Simonton Cove.	als and 1 x mi	neiabs all metals locat	or Coriduc	cted DGIVI surveys or ti	le trail leading to
						10/13/2014	
			Shawn Meyer	- SUXOS/Superintendant		DATE	

	C		CTOR PRODUCTION REPORT ACH ADDITIONAL SHEETS IF NECESSARY)					DATE:	10/14/2014 Tuesday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L							Tuesday
CONTRACTOR:		Our miguo.	salid-OAO myesagaton		SUPERINTEN				
CB&I Federal Services, LLC AM WEATHER:			PM WEATHER:		Shawn Meyer	MAX. TEMP:	Deg. F	MIN. TEMP: Deg. F	
Overcast			Overcast WORK PERFORMED TODAY	v		74	4	5	В
Schedule			WORK LOCATION AND DESCRIPTION	. Y	EMPL	OYER	NUMBER	TRADE	HRS
Activity No.		Trade/Employ Senior UXO S	oyee Supervisor/Safety - Shawn Meyer		CB&I Federal	Services	1	SUXOS	11.0
	2	Lead Geophy	ysicist- Mark Kick		CB&I Federal	Services	1	Geophysicist	11.0
			Control - Richard Ricks Joel Sivertsen		CB&I Federal		1	UXOQC UXO TECH II	11.0 11.0
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	27				t				
	28								
	29 30			-	+		1		
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	32					,			
	33		SAFETY MEETING HELD THIS DATE?			✓ YES	∐NO	TOTAL WORK HOURS	
JOB		(If YES attach cop	py of the meeting minutes)			□YES		ON JOB SITE THIS DATE	44.00
SAFETY			E ANY LOST TIME ACCIDENTS THIS DATE? upy of completed OSHA report)					CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV						YES	✓ NO	PREVIOUS REPORT	305.00
(If YES attach statement or checklist showing inspection perform WAS HAZARDOUS MATERIAL/WASTE RELEASED II		ENVIRONMEN	IT?			YES	✓NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	349.00
(If YES attach description of incident and proposed action.)									
LIST SAFETY ACTIONS TAKEN TODAY/SAFE Tailgate Safety Meeting Held in AN		ECTIONS CO	NDUCTED					SAFETY REQ HAVE BE	
Tallyate Salety Weeting Flora II.7.1.	Л								
EQUIPMENT/MATERIAL RECEIVED TODAY TO	O BE INC	JORPORATE	J IN JOB						
EQUIPMENT All Metals Detectors (2) Schoenstedts (5) Radios (6) Trimble GeoXH (2)		HOURS	Rental Rauipment EM-61MK2As (2) GPS Base Station GPS Rover Units (2)	OURS	EQUIPMEN	NT		MILEAGE	
			* Denotes hour meter not working noing work. Tested 2 x EM61 and 2 x Schoenst						
	weep fr	rom the airs	d DGM survey of dry lake be airstrip. Conducted strip to Otter cove and over to Bowl benchmark. r Cabin. 16 Miles hiked in total.						
			<u></u>					10/14/2014	_
			Shar	wo Mover	r - SHXOS/Suna	arintandant		DATE	

	C	_	CTOR PRODUCTION REPORT ACH ADDITIONAL SHEETS IF NECESSARY)		'		DATE:	10/15/2014
CONTRACT NO.: N62473-10-D-4009		TITLE AND L						Tuesday
CONTRACTOR:		Jang	static-O/O myosigation	SUPERINTER				
CB&I Federal Services, LLC AM WEATHER:			PM WEATHER:	Shawn Meye	MAX. TEMP:		MIN. TEMP: Deg. F	
Clear light wind from NW			Clear light wind from NW WORK PERFORMED TODAY		74	4	58	3
Schedule	#	Trade/Emplo	WORK LOCATION AND DESCRIPTION	EMPL	LOYER	NUMBER	TRADE	HRS
Activity No.	1	Senior UXO	Supervisor/Safety - Shawn Meyer	CB&I Federal		1	SUXOS	12.0
	2	Lead Geophy	ysicist- Mark Kick Control - Richard Ricks	CB&I Federal		1	Geophysicist UXOQC	12.0 12.0
			Joel Sivertsen	CB&I Federal		1	UXO TECH II	12.0
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	23 24					 	 	-
	25	i				<u>† </u>		
	26 27					 	<u> </u>	
	28	3					<u> </u>	<u> </u>
	29			 		 	<u> </u>	
	30 31			<u> </u>		+	<u> </u>	<u> </u>
	32					#		
	33		SAFETY MEETING HELD THIS DATE?		✓ YES	S NO	TOTAL WORK HOURS	<u> </u>
JOB SAFETY			opy of the meeting minutes) E ANY LOST TIME ACCIDENTS THIS DATE?		□YES	✓ NO	ON JOB SITE THIS DATE CUMULATIVE TOTAL OF	48.00
		(If YES attach cop	ppy of completed OSHA report)		□YES	_	WORK HOURS FROM	205.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV E (If YES attach statement or checklist showing inspection performe	ed.)				_		PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED IN (If YES attach description of incident and proposed action.)	TO THE	ENVIRONMEN	л?		YES	, √NO	START OF CONSTRUCTION	353.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFET	Y INSP	ECTIONS CC	NDUCTED				SAFETY REQ	UIREMENTS
Tailgate Safety Meeting Held in AM	į.						HAVE BEI	EN MET.
EQUIPMENT/MATERIAL RECEIVED TODAY TO	BE INC	CORPORATE	D IN JOB					
EQUIPMENT		HOURS	Rental Rauipment HOURS	EQUIPME	.NT		MILEAGE	
All Metals Detectors (2) Schoenstedts (5)			EM-61MK2As (2) GPS Base Station					
Radios (6) Trimble GeoXH (2)			GPS Rover Units (2)					
Trimble Georn (2)								
			* Denotes hour meter not working					
Conducted daily tailgate safety meeting	nrior	to commer	ncing work. Hiked to Green Mt. and set up GPS base	station Hike	ed to dry lak	o hed airs	etrin to finish DGM sur	vev. Continued to
NOAA station and conducted DGM surv	vey and	nd UXO surv	vey of trail from station to Adams cove. Conducted UX	XO transect for				
survey of Caliche forest. Moved GPS b	ase st	tation from	Green Mountain to San Miguel Hill. Total milage hike	d: 18.				
			Shaum Mau	er - SHYOS/Sun			10/15/2014 DATE	_

	C	_	CTOR PRODUCTION REPOR	RT				DATE:	10/16/2014 Tuesday
CONTRACT NO.: N62473-10-D-4009		TITLE AND I							Tuesday
CONTRACTOR:		Odi i Wilgdor I	siana oxo investigation		SUPERINTEN				
CB&I Federal Services, LLC AM WEATHER:			PM WEATHER:		Shawn Meyer	MAX. TEMP:	Deg. F	MIN. TEMP: Deg. F	
Clear light wind from NW			Clear light wind from NW WORK PERFORMED	TODAY		74	4	5	В
Schedule	ш	Trada/Francia	WORK LOCATION AND DESCRIPTION	IODAI	EMPL	OYER	NUMBER	TRADE	HRS
Activity No.			Supervisor/Safety - Shawn Meyer		CB&I Federal		1	SUXOS	10.0
	2	Lead Geophy	/sicist- Mark Kick Control - Richard Ricks		CB&I Federal		1	Geophysicist UXOQC	10.0 10.0
			Joel Sivertsen		CB&I Federal		1	UXO TECH II	10.0
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	31								
	32 33								
JOB		1	AFETY MEETING HELD THIS DATE?			✓ YES	□NO	TOTAL WORK HOURS ON JOB SITE THIS DATE	40.00
SAFETY	_	WERE THERE	by of the meeting minutes) ANY LOST TIME ACCIDENTS THIS DATE?			YES	☑ NO	CUMULATIVE TOTAL OF	40.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV	ELECTRI		by of completed OSHA report) RK DONE?			YES	✓ NO	WORK HOURS FROM PREVIOUS REPORT	305.00
(If YES attach statement or checklist showing inspection perform WAS HAZARDOUS MATERIAL/WASTE RELEASED II		ENVIRONMEN	T2			YES	✓NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	345.00
(If YES attach description of incident and proposed action.)		LITTING	•				_	on an entermooned	0.10.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFE								SAFETY REQ HAVE BE	
Tailgate Safety Meeting Held in AM	/I. I CA	KE Salety	observation conducted.					TIVVE DE	EN WET.
EQUIPMENT/MATERIAL RECEIVED TODAY TO	O BE IN	CORPORATE	D IN JOB						
		HOURS		HOURA	FOLUDIAL	ıT			
EQUIPMENT All Metals Detectors (2)		HOURS	Rental Rauipment EM-61MK2As (2)	HOURS	EQUIPMEN	N I		MILEAGE	
Schoenstedts (5) Radios (6)			GPS Base Station GPS Rover Units (2)						
Trimble GeoXH (2)			GI 3 Rover Offics (2)						
			* Denotes hour meter not working						
			cing work. ICARE observation completed b						
UXO transects in the vicinity of Harris prom San Miguel Hill.	point tr	ail. Compl	eted DGM survey of Harris point trail. Comp	pleted DGM	survey of No	orth East Fo	ox Pen hig	gh use area. Recovere	ed base station
								10/16/2014	
				Shawn Meyer	r - SHXOS/Sun	erintendant		10/16/2014 DATE	_

	C		CTOR PRODUCTION REPORT. CH ADDITIONAL SHEETS IF NECESSARY)	RT			DATE:	10/17/2014 Friday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L						i nuay
CONTRACTOR: CB&I Federal Services, LLC		J			SUPERINTENDENT: Shawn Meyer			
AM WEATHER:			PM WEATHER:		MAX. TEMP:	-	MIN. TEMP: Deg. F	
Clear wind from NW			Clear wind from NW WORK PERFORMED	TODAY	•	'4 	5	8
Schedule Activity No.		Trade/Employ			EMPLOYER	NUMBER	TRADE	HRS
	2	Lead Geophy	Supervisor/Safety - Shawn Meyer rsicist- Mark Kick		CB&I Federal Services CB&I Federal Services	1	SUXOS Geophysicist	8.0 8.0
			Control - Richard Ricks Joel Sivertsen		CB&I Federal Services CB&I Federal Services	1	UXOQC UXO TECH II	8.0 8.0
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	33				[] VE	LINO		
JOB		(If YES attach cop	AFETY MEETING HELD THIS DATE? by of the meeting minutes)			S ∐NO	TOTAL WORK HOURS ON JOB SITE THIS DATE	32.00
SAFETY			ANY LOST TIME ACCIDENTS THIS DATE? by of completed OSHA report)			☑ NO	CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV (If YES attach statement or checklist showing inspection perform					YES	☑ NO	PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED I		ENVIRONMEN	T?		YES	✓NO	START OF CONSTRUCTION	337.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFE	TY INSPI	ECTIONS CO	NDUCTED					UIREMENTS
Tailgate Safety Meeting Held in AM							HAVE BE	
EQUIPMENT/MATERIAL RECEIVED TODAY T	O BE INC	ORPORATE	D IN JOB					
FOLUDATA		нопре	B	HOURS	EQUIPMENT		MII 5405	
EQUIPMENT All Metals Detectors (2)		HOURS	Rental Rouipment EM-61MK2A (1)	нооко	EQUIFWENT		MILEAGE	
Schoenstedts (5) Radios (6)			GPS Base Station GPS Rover Units (2)					
Trimble GeoXH (2)								
			1 x EM-61MK2A returned					
			TX LIVI-OTIVINZA Teturrieu					
			* Denotes hour meter not working					
Conducted daily tailgate safety meetin	a prior	to commen	cing work. UXO transects completed IVO	Cardwell noi	nt Equipment Mainter	nance stor	age and demobilization	
Conducted daily language salety mooning	ig prior	10 00111111011	only work. One transcots completed tv o	oarawon por	nt. Equipment Mainter	iarioo, otor	ago ana aomobilizati	<i>.</i> .
							40/4=/22.4	
				Shawn Meyer	r - SUXOS/Superintendant		10/17/2014 DATE	

		RACTOR PRODUCTION REPO	RT			DATE:	10/20/2014 Monday
CONTRACT NO.: N62473-10-D-4009	TITLE A	ND LOCATION: uel Island-UXO Investigation					Worlday
CONTRACTOR:				SUPERINTENDENT:			
CB&I Federal Services, LLC AM WEATHER:		PM WEATHER:		Shawn Meyer MAX. TEMP:	-	MIN. TEMP: Deg. F	
Clear, moderate wind from NW		Clear, high wind from NW WORK PERFORMED	D TODAY		4	5	8
Schedule Activity No.	# Trade/E	WORK LOCATION AND DESCRIPTION mployee		EMPLOYER	NUMBER	TRADE	HRS
		XO Supervisor/Safety - Shawn Meyer ophysicist- Mark Kick		CB&I Federal Services CB&I Federal Services	1	SUXOS Geophysicist	11.0 11.0
	3 UXO Qu	ality Control - Richard Ricks		CB&I Federal Services	1	UXOQC	11.0
	4 UXO Te	ch – Joel Sivertsen		CB&I Federal Services	1	UXO TECH II	10.0
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JOB		DB SAFETY MEETING HELD THIS DATE? ch copy of the meeting minutes)			□NO	TOTAL WORK HOURS ON JOB SITE THIS DATE	43.00
SAFETY		HERE ANY LOST TIME ACCIDENTS THIS DATE? ch copy of completed OSHA report)		YES	☑ NO	CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV EI	LECTRICAL/HIGH			YES	✓ NO	PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
(If YES attach statement or checklist showing inspection performed WAS HAZARDOUS MATERIAL/WASTE RELEASED INT		MENT?		YES	✓NO	START OF CONSTRUCTION	348.00
(If YES attach description of incident and proposed action.) LIST SAFETY ACTIONS TAKEN TODAY/SAFETY	/ INSDECTIONS	2 CONDUCTED				SAFETY REG	UIDEMENTS
Tailgate Safety Meeting Held in AM.	INOI EOTION	, 001,2001,25				SAFETY REC	
EQUIPMENT/MATERIAL RECEIVED TODAY TO	BE INCORPOR	ATED IN JOB					
EQUIPMENT All Metals Detectors (2)	HOUI	RS Rental Rauipment EM-61MK2A (1)	HOURS	EQUIPMENT		MILEAGE	
Schoenstedts (5) Radios (6)		GPS Base Station GPS Rover Units (2)					
Trimble GeoXH (2)							
		A EM CAMICOA satura a d					
		1 x EM-61MK2A returned					
		* Denotes hour meter not working					
Conducted daily tailgate sefety meeting	prior to com	mencing work. UXO transects completed IVC	Crook point	Equipment Maintenan	oo and sta	arago.	
Conducted daily tallgate safety meeting	prior to com	mending work. OAO transects completed tvo	о Стоок ропп.	Equipment Maintenan	ce and sid	nage.	
						40/00/004	
			Shawn Meyer	r - SUXOS/Superintendant		10/20/2014 DATE	_

	CC		CTOR PRODUCTION REPORT	₹T				DATE:	10/21/2014 Sunday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L							Sunday
CONTRACTOR: CB&I Federal Services, LLC	•				SUPERINTENI Shawn Meyer	DENT:			
AM WEATHER: Clear, gale force wind from NW			PM WEATHER: Clear, gale force wind from NW			MAX. TEMP:		MIN. TEMP: Deg. F	8
Schedule			WORK PERFORMED WORK LOCATION AND DESCRIPTION	TODAY	EMPLO		1	I	1
Activity No.		Trade/Employ			CB&I Federal S		NUMBER 1	TRADE	HRS 12.0
	2	Lead Geophy	ysicist- Mark Kick		CB&I Federal S	Services	1	Geophysicist	12.0
			Control - Richard Ricks Joel Sivertsen		CB&I Federal S		1	UXOQC UXO TECH II	12.0 11.0
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JOB		(If YES attach cop	AFETY MEETING HELD THIS DATE? py of the meeting minutes)			✓ YES		TOTAL WORK HOURS ON JOB SITE THIS DATE	47.00
SAFETY			ANY LOST TIME ACCIDENTS THIS DATE? py of completed OSHA report)			YES		CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV (If YES attach statement or checklist showing inspection perfor	V ELECTRIC					YES	☑ NO	PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED		ENVIRONMEN [*]	T?			YES	✓NO	START OF CONSTRUCTION	352.00
(If YES attach description of incident and proposed action.) LIST SAFETY ACTIONS TAKEN TODAY/SAFE	FTY INSPE	CTIONS CO	NDLICTED					SAFETY REC	DITIREMENTS
Tailgate Safety Meeting Held in Al								HAVE BE	
EQUIPMENT/MATERIAL RECEIVED TODAY 1	TO BE INC	ORPORATEI	D IN JOB						
EQUIPMENT All Metals Detectors (2)		HOURS	Rental Rauipment EM-61MK2A (1)	HOURS	EQUIPMEN	IT		MILEAGE	
Schoenstedts (5)			GPS Base Station						
Radios (6) Trimble GeoXH (2)			GPS Rover Units (2)						
			1 x EM-61MK2A returned						
			* Denotes hour meter not working						
		o commen	ncing work. UXO transects completed North	h of Cardwell	Point Trail.	DGM reac	quisition a	and excavation of targ	gets at Carwell
point. Equipment Maintenance and st	torage.								
								10/21/2014	
				Shawn Meyer	r - SUXOS/Sune	rintendant		DATE	_

	CO		CTOR PRODUCTION REPORT ACH ADDITIONAL SHEETS IF NECESSARY)				DATE:	10/22/2014 Wednesday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L						Weunesuay
CONTRACTOR: CB&I Federal Services, LLC	12.	all mage	and ONO invosigation		SUPERINTENDENT:			
AM WEATHER:			PM WEATHER:		MAX. TEMP: [Deg. F	MIN. TEMP: Deg. F	
Clear, gale force wind from NW			Clear, gale force wind from NW		74		58	
Schedule			WORK PERFORMED TODAY WORK LOCATION AND DESCRIPTION	$\overline{}$	EMPLOYER		T	
Activity No.		Trade/Employ	yee			NUMBER		HRS
			Supervisor/Safety - Shawn Meyer		CB&I Federal Services	1	SUXOS Geophysicist	11.0 11.0
			ysicist- Mark Kick Control - Richard Ricks		CB&I Federal Services CB&I Federal Services	1	Geophysicist UXOQC	11.0 11.0
			Joel Sivertsen		B&I Federal Services	1	UXO TECH II	10.0
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	29							
	30		·	<u> </u>		·'	<u> </u>	
	31			-+			 	
	32			-+		<u> </u>	+	
	33 W.	MAS A JOB S	AFETY MEETING HELD THIS DATE?		✓ YES	TINO	TOTAL WORK HOURS	·
JOB	#	If YES attach copy	py of the meeting minutes)		_		ON JOB SITE THIS DATE	43.00
SAFETY	w	WERE THERE	ANY LOST TIME ACCIDENTS THIS DATE?		YES	✓ NO	CUMULATIVE TOTAL OF	
CONTRACTOR TO THE MICHING /SC AFFOI D/HV			py of completed OSHA report) RK DONE?		□YES	☑ NO	WORK HOURS FROM PREVIOUS REPORT	305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV (If YES attach statement or checklist showing inspection perform		L/HIGH W.	K DONE?				PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED II		:NVIRONMEN	T?		YES	✓NO	START OF CONSTRUCTION	348.00
(If YES attach description of incident and proposed action.)							1	
LIST SAFETY ACTIONS TAKEN TODAY/SAFE							SAFETY REQU	
Tailgate Safety Meeting Held in AM	J. ICARF	E observ	ation completed				HAVE BEE	:N MET.
EQUIPMENT/MATERIAL RECEIVED TODAY TO	O BE INCO	RPORATE) IN JOB					
					-			
EQUIPMENT	,	HOURS	Rental Rauipment HOU	JRS E	QUIPMENT		MILEAGE	
All Metals Detectors (2)			EM-61MK2A (1)					
Schoenstedts (5) Radios (6)			GPS Base Station GPS Rover Units (2)					ľ
Trimble GeoXH (2)			GI O NOVOI OTIILO (2)					
,								
			1 x EM-61MK2A returned					
			1 X EIVI-0 HVINZA Teturneu					
			* Denotes hour meter not working					
			Denotes hour meter not working					
Conducted daily tailgate safety meeting	ng prior to	o commen	ncing work. DGM reacquisition and excavation of	targets c	on Green Mountain tra	ail east. l	JXO transects complet	ed South West of
			ather station to Green Mountain. Equipment Main					
		-			-			
3 '								
							10/22/2014	

	C		CTOR PRODUCTION REPORT ACH ADDITIONAL SHEETS IF NECESSARY)					DATE:	10/23/2014 Thursday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CONTRACTOR: CB&I Federal Services, LLC			<u> </u>		SUPERINTEN Shawn Meyer				
AM WEATHER: Clear, gale force wind from NW			PM WEATHER: Clear, high wind from NW			MAX. TEMP:		MIN. TEMP: Deg. F	в
Schedule			WORK PERFORMED TODAY WORK LOCATION AND DESCRIPTION		EMPL	LOYER	NUMBER	<u> </u>	HRS
Activity No.		Trade/Employ Senior UXO S	oyee Supervisor/Safety - Shawn Meyer	$\overline{-}$	CB&I Federal	Services	1	SUXOS	11.5
	2	Lead Geophy	ysicist- Mark Kick	(CB&I Federal	l Services	1	Geophysicist	11.5
			Control - Richard Ricks Joel Sivertsen		CB&I Federal		1	UXOQC UXO TECH II	11.5 10.5
	'			=	<u> </u>				
	7	 		\rightarrow		!	 	 	+
	8	В		\Box					
	9 10			\longrightarrow			 	+	
	11			\Box			ļ	<u> </u>	
	12 13			\rightarrow		!	 	 	+
	14 15	l l		\Box					
	16	6		$\overline{}$			<u> </u>	 	<u> </u>
	17 18	, i		\Box	=				
	18			\longrightarrow			 	-	
	20)			<u> </u>				
	21 22			\longrightarrow		!	 	 	
	23			\rightarrow			 	+	
	24								
	25 26			\longrightarrow		I	 	 	
	27			\rightarrow				<u> </u>	
	28	3			<u> </u>				
	29 30			\longrightarrow		!	 	 	
	31			=			<u> </u>	<u> </u>	
	32				$\overline{}$				
	33		SAFETY MEETING HELD THIS DATE?			✓ YES	□NO	TOTAL WORK HOURS	
JOB		(If YES attach cop	ppy of the meeting minutes)				✓NO	ON JOB SITE THIS DATE	45.00
SAFETY			E ANY LOST TIME ACCIDENTS THIS DATE? ppy of completed OSHA report)			∐ 1F2	_	CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV						YES	✓ NO	PREVIOUS REPORT	305.00
(If YES attach statement or checklist showing inspection perform WAS HAZARDOUS MATERIAL/WASTE RELEASED II		ENVIRONMEN	ит?			YES	✓NO	TOTAL WORK HOURS FROM START OF CONSTRUCTION	350.00
(If YES attach description of incident and proposed action.)								'	
LIST SAFETY ACTIONS TAKEN TODAY/SAFE		ECTIONS CO	NDUCTED					SAFETY REQUE	
Tailgate Safety Meeting Held in AM	Л.							10112	IN IVIL 1.
İ									
EQUIPMENT/MATERIAL RECEIVED TODAY TO	O BE INC	CORPORATE	D IN JOB						
EQUIPMENT All Metals Detectors (2) Schoenstedts (5) Radios (6) Trimble GeoXH (2)		HOURS	Rental Rauipment EM-61MK2A (1) GPS Base Station GPS Rover Units (2)	OURS	EQUIPMEN	NT		MILEAGE	
			1 x EM-61MK2A returned						
			* Denotes hour meter not working						
			ncing work. UXO reacquisition and excavation of DAA station. Equipment Maintenance and storag		s on Point B	ennet trail .	UXO tran	sects completed Sout	:h of Point Bennet
								10/00/0044	
			Shav	wn Mever	r - SHXOS/Sun	nerintendant		10/23/2014 DATE	-

	CC		CTOR PRODUCTION REPORT ACH ADDITIONAL SHEETS IF NECESSARY)			DATE:	10/24/2014 Friday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L					1 Huay
CONTRACTOR: CB&I Federal Services, LLC		Jan mg	Intitional investigation	SUPERINTENDENT: Shawn Meyer			
AM WEATHER:			PM WEATHER:	MAX. TEMP:	Deg. F	MIN. TEMP: Deg. F	
Clear, high wind from NW			Clear, high wind from NW	74		58	
Schedule			WORK PERFORMED TODAY WORK LOCATION AND DESCRIPTION	EMPLOYER		T	
Activity No.		Trade/Employ	yee		NUMBER		HRS
			Supervisor/Safety - Shawn Meyer	CB&I Federal Services	1	SUXOS Geophysicist	8.0
			ysicist- Mark Kick Control - Richard Ricks	CB&I Federal Services CB&I Federal Services	1	Geophysicist UXOQC	8.0 8.0
			Joel Sivertsen	CB&I Federal Services CB&I Federal Services	1	UXO TECH II	8.0
	二						
	7	+		 	+	+	
	8			+			
	9						
	10				—	 	
	11 12			+	 	+	
	13			†		†	
	14			—	二		
	15 16			<u> </u>		+	
	17			+		+	
	18						
	19				二		
	20					 	
<u> </u>	21					 	,—— —
	22 23			-	+	+	·
	23 24			+		+ +	
	25			+		+ + + + + + + + + + + + + + + + + + + +	·
	26			<u> </u>			
	27					<u> </u>	
	28						
	29			<u> </u>	Г		
	30					 	
	31			<u> </u>		 	
	32 33			+ ''	 	+ +	
			AFETY MEETING HELD THIS DATE?	✓ YES	NO	TOTAL WORK HOURS	i
JOB		(If YES attach cop	py of the meeting minutes)	_		ON JOB SITE THIS DATE	32.00
SAFETY			ANY LOST TIME ACCIDENTS THIS DATE?	☐YES	☑ NO	CUMULATIVE TOTAL OF	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV			py of completed OSHA report) RK DONE?	□YES	✓ NO	WORK HOURS FROM PREVIOUS REPORT	305.00
(If YES attach statement or checklist showing inspection perform		AL/ MIGHT TTC.	(K DONE?	_	_	TOTAL WORK HOURS FROM	
WAS HAZARDOUS MATERIAL/WASTE RELEASED I		ENVIRONMEN	T?	YES	✓ NO	START OF CONSTRUCTION	337.00
(If YES attach description of incident and proposed action.)						J	
LIST SAFETY ACTIONS TAKEN TODAY/SAFE		ECTIONS CO	NDUCTED			SAFETY REQU	
Tailgate Safety Meeting Held in AN	Л.					HAVE BEE	.N MET.
EQUIPMENT/MATERIAL RECEIVED TODAY T	O BE INC	JORPORATE!	D IN JOB				
EQUIPMENT		HOURS	Rental Rouipment HOURS	EQUIPMENT		MILEAGE	
All Metals Detectors (2) Schoenstedts (5)			GPS Rover Units (2) GPS Base Station				
Radios (6)			GPS Base Station				
Trimble GeoXH (2)							ľ
			2 x EM-61MK2A returned				
			Z X Z III C				
			* Denotes hour meter not working				
Conducted daily tailgate safety meeting			ncing work. UXO reacquisition and excavation of target	ts on Ranger Station Air	Strip. Ec	quipment Maintenance	and storage.
		to commer	ionig work. One readquotion and executation of large				
Housekeeping and Demobe to Camari		to commei	ioning work. One reacquisition and excavation of large				
		to comme	iong work. One reacquisitor and executation of targe				
		to comme	iong work. One reacquisitor and executation of ange				
		to comme	iong work. One reacquisitor and executation of ange				
		to comme	iong work. One reacquisitor and executation of ange				
		to comme					
		to comme	iong work. One reacquisitor and executation of targe				
		to comme	iong work. One reacquisitor and executation of targe			10/24/2014	

	CON		CTOR PRODUCTION REPORT ACH ADDITIONAL SHEETS IF NECESSARY)				DATE:	10/27/2014
CONTRACT NO.: N62473-10-D-4009		TLE AND LO	COMMINIONAL SHEETS IF NECESSARY) LOCATION: sland-UXO Investigation	-				Monday
CONTRACTOR:		I wilgac	Idilla-OAC myeetigaaen	SUPERINTER				
CB&I Federal Services, LLC AM WEATHER:			PM WEATHER:	Shawn Meye	MAX. TEMP:	-	MIN. TEMP: Deg. F	
Clear, high wind from NW			Clear, high wind from NW WORK PERFORMED TODAY		74	<u>. </u>	58	!
Schedule Activity No.	# Trac	ade/Employ	WORK LOCATION AND DESCRIPTION	EMPL	LOYER	NUMBER	TRADE	HRS
Activity No.	1 Sen	enior UXO S	Supervisor/Safety - Shawn Meyer	CB&I Federal		1	SUXOS	12.0
			nger Dan Pringle Control - Richard Ricks	CB&I Federal		1	Project Manager UXOQC	12.0 12.0
			Joel Sivertsen	CB&I Federal		1	UXO TECH II	11.0
	士			<u> </u>				
	7 8			+		 	-	
	9			1				
	11			\pm				
	12 13			+		 	-	
	14			#			<u> </u>	
	15 16			\pm				
 	17 18			+		 		
	19							
	20 21			+		 	-	
	22							
	23 24			+		├──		
	25							
+	26 27			+		 		
	28							
	29			I		<u> </u>		<u> </u>
	30 31			<u> </u>			<u> </u>	<u> </u>
	32			#				
	33 WAS	AS A JOB S/	AFETY MEETING HELD THIS DATE?		✓ YES	□NO	TOTAL WORK HOURS	
JOB SAFETY			py of the meeting minutes) EANY LOST TIME ACCIDENTS THIS DATE?		YES	_	ON JOB SITE THIS DATE CUMULATIVE TOTAL OF	47.00
	(If YE	YES attach copy	py of completed OSHA report)		□YES	_	WORK HOURS FROM	305.00
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV EL (If YES attach statement or checklist showing inspection performed	d.)				_		PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED INT (If YES attach description of incident and proposed action.)	O THE ENV	√IRONMENT	L5		YES	✓NO	START OF CONSTRUCTION	352.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFETY	/ INSPECT	TIONS CO	NDUCTED				SAFETY REQU	
Tailgate Safety Meeting Held in AM.							HAVE BEE	EN MET.
EQUIPMENT/MATERIAL RECEIVED TODAY TO I	BE INCOR	RPORATE	D IN JOB					
EQUIPMENT	н		Rental Rouipment HOURS	EQUIPME	.NT		MILEAGE	
All Metals Detectors (2) Schoenstedts (5)			GPS Rover Units (2) GPS Base Station					
Radios (6)			or o bass statis.					
Trimble GeoXH (2)								
			2 x EM-61MK2A returned					
			* Denotes hour meter not working					
Conducted deliviteilante enfaty meeting	arior to (man	ncing work. UXO transects NW of Green Mountain to N	NOAA air etr	LIVO reg	acuicition	and avacuation of tar	
station to San Miguel Hill. Equipment N				NOAA ali sui	ip. UNO iea	equisition	allu excavation or targ	Jets Holli NOAA
				er - SHXOS/Sun			10/27/2014 DATE	=

	C	-	CTOR PRODUCTION REPORACH ADDITIONAL SHEETS IF NECESSARY)	RT				DATE:	10/28/2014 Tuesday
CONTRACT NO.: N62473-10-D-4009		TITLE AND L	,						Tuesday
CONTRACTOR: CB&I Federal Services, LLC					SUPERINTEN Shawn Meyer				
AM WEATHER: Clear, light and variable wind			PM WEATHER: Clear, light and variable wind			MAX. TEMP:		MIN. TEMP: Deg. F	58
Schedule	l		WORK PERFORMED WORK LOCATION AND DESCRIPTION	TODAY	EMPLO		I	1	1
Activity No.		Trade/Emplo			CB&I Federal		NUMBER 1	TRADE	HRS 11.0
	2	Project Mana	ager Dan Pringle		CB&I Federal S	Services	1	Project Manager	11.0
			Control - Richard Ricks Joel Sivertsen		CB&I Federal S		1	UXOQC UXO TECH II	11.0 10.0
	7 8								
	9								
	10 11								
	12 13								
	14 15								
	16								
	17 18								
	19 20				<u> </u>				
	21								
	22 23								
	24								
	25 26								
	27								
	28 29								
	30								
	31 32								
	33	WAS A IORS	AFETY MEETING HELD THIS DATE?			✓ YES	1 INO	TOTAL WORK HOURS	
JOB		(If YES attach cop	py of the meeting minutes)					ON JOB SITE THIS DATE	43.00
SAFETY			E ANY LOST TIME ACCIDENTS THIS DATE? py of completed OSHA report)			YES		CUMULATIVE TOTAL OF WORK HOURS FROM	
WAS CRANE/MANLIFT/TRENCHING/SCAFFOLD/HV (If YES attach statement or checklist showing inspection perfor						YES	☑ NO	PREVIOUS REPORT TOTAL WORK HOURS FROM	305.00
WAS HAZARDOUS MATERIAL/WASTE RELEASED (If YES attach description of incident and proposed action.)		ENVIRONMEN	IT?			YES	✓NO	START OF CONSTRUCTION	348.00
LIST SAFETY ACTIONS TAKEN TODAY/SAFE	TY INSPI	ECTIONS CO	NDUCTED						QUIREMENTS
Tailgate Safety Meeting Held in Al								HAVE BE	
EQUIPMENT/MATERIAL RECEIVED TODAY T	O BE INC	CORPORATE	D IN JOB						
EQUIPMENT All Metals Detectors (2) Schoenstedts (5)		HOURS	Rental Rauioment GPS Rover Units (2) GPS Base Station	HOURS	EQUIPMEN	IT		MILEAGE	
Radios (6) Trimble GeoXH (2)									
			2 x EM-61MK2A returned						
			* Denotes hour meter not working						
			ncing work. UXO transects S of San Migue rgets in campground area. UXO transects						Miguel Hill to
				Shawa Mayar	r - SHXOS/Sune	rintendant		10/28/2014 DATE	_

CONTRACTOR QUALITY CONTROL REPORTS

	CONTRACTOR QUALITY CONTROL REPORT Report No. 5									
	CB&I Federal Services, LLC CONTRACT: N62473-10-D-4009 T.O. 0106					. 0106		Date	10/6/2014	
PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION, LOCATION AND LIST PERSONNEL PRESENT						
PREPARATORY	PLANS AND SPECS	✓		Definable feature/s of work	(see continuati	on page)				
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE	/		Done on 10/05/14						
	BEEN APPROVED. MATERIALS COMPLY WITH] [
	APPROVED SUBMITTALS	✓								
	MATERIALS STORED	~								
	PROPERLY. PRELIMINARY WORK WAS		Ш							
	DONE CORRECTLY.	✓								
	TESTING PLAN HAS BEEN REVIEWED.	✓								
	WORK METHOD AND SCHEDULE DISCUSSED.	✓								
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	>								
INITIAL	PRELIMINARY WORK WAS DONE CORRECTLY	✓		Done on 10/06/14 Test plot for Em61 and school	netedte was instal	led	TES	STING PERFORMED & WHO PERFORMED TEST		
	SAMPLE HAS BEEN	~	П	All equipment wastested on t			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			
	PREPARED/APPROVED WORKMANSHIP IS	-								
	SATISFACTORY TEST RESULTS ARE									
	ACCEPTABLE. WORK IS IN COMPLIANCE	\								
	WITH THE CONTRACT. WORK COMPLIES WITH									
	SAFETY REQUIREMENTS	>	Ш							
TOW-UP	WORK COMPLIES WITH CONTRACT AS APPROVED	~		Definable feature/s of Sweep areas ahead of EM		and all high use areas		STING PERFORMED PERFORMED TES	ST	
	INITIAL PHASE			with schonstedt.	h's and only see	and only soon areas that are		Schonstedt's tested each day at test plot. Team member test's there own detector.		
	WORK COMPLIES WITH SAFETY REQUIREMENTS	✓	Ш	EM61 will follow UXO Tec cleared by schonstedt's	ream member	tests there own d	letector.			
				•			#251272 Shaw #240234 Richa	•		
	Amaa Suufa aa Suuant			Area Sub Surface Investi	anto di		11240254 Richa	iru raeks		
ГГО	Area Surface Swept. trails and high use areas			Area Sub-Surface Investigated: areas in which EM61 could not follow due to						
FOI				hazards						
	NOTE:									
REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS) EM61 needsmoee testing on 10/07/14						REWORK ITEMS CORRECTED TO N/A	DDAY (FROM REWO	RK ITEMS LIST)		
REMAR	KS:									
									10/6/2014	
					UXO QC Spe	cialist	Richard Ricks		DATE	
	of the contractor, I certify that this report is									
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	
GOVERNMENT QUALITY ASSURANCE REPORT										
GOVERNMENT QUALITY ASSURANCE REPORT QUALITY ASSURANCE REPRESENTATIVE'S REMARKS AND/OR EXCEPTIONS TO THE REPORT										
GOVERNMENT QUALITY ASSURANCE MA								- 	DATE	

				CTOR QUALITY				Report No.	
				CONTRACT: N62473-10 I	I-D-4009 T.O	. 0106		Date	10/7/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO			ORK, SPECIFICATION SECTION, L	OCATION AND LIST	PERSONNEL PRE	SENT
	PLANS AND SPECS	~		Definable feature/s of work	(see continuati	on page)			
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE	\		Done on 10/05/14					
K	BEEN APPROVED. MATERIALS COMPLY WITH] [1					
2	APPROVED SUBMITTALS	✓							
RA]	MATERIALS STORED	\		1					
PREPARATORY	PROPERLY. PRELIMINARY WORK WAS	\ \		•					
RE	DONE CORRECTLY.								
_	TESTING PLAN HAS BEEN REVIEWED.	✓							
	WORK METHOD AND SCHEDULE DISCUSSED.	√							
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	\							
	PRELIMINARY WORK WAS Done on 10/06/14							TING PERFORMED	
	DONE CORRECTLY SAMPLE HAS BEEN			Test plot for Em61 and schor All equipment wastested on t		ed	All Metal Dete	PERFORMED TE: ctors on site ha	
با	PREPARED/APPROVED WORKMANSHIP IS	_				been tested. schonstedts te	seted by Richar	d Ricks	
INITIAL	SATISFACTORY	\	Ш	_			#254343 good	1	a Micks
Z	TEST RESULTS ARE ACCEPTABLE.	✓					#251272 good #240234 good		
	WORK IS IN COMPLIANCE	V	П			EM61 test		y Mark Kick	
	WITH THE CONTRACT. WORK COMPLIES WITH] [1		#1230 good #1231 good			
	SAFETY REQUIREMENTS	✓							
	WORK COMPLIES WITH CONTRACT AS APPROVED	\		Definable feature/s of Sweep areas ahead of EM		and all high use areas	TES	TING PERFORMED PERFORMED TE	
Ļ	INITIAL PHASE			with schonstedt.		-		ted each day at t	-
	WORK COMPLIES WITH SAFETY REQUIREMENTS	✓		EM61 will follow UXO Technology cleared by schonstedt's	h's and only sca	n areas that are	Team member t	est's there own d	etector.
, 	SAFETT REQUIREMENTS			cleared by scrionsteat's		#251272 Shaw	-		
LOW-UP							#240234 Richar	rd Ricks	
≶	Area Surface Swept.			Area Sub-Surface Investi	_				
	trails and high use areas			areas in which EM61 could r					
FO				due to terrain or biological ha	azaius				
	NOTE:								
	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO	,	,	
N/A						EM61 #1231 retested and	fully operationa	I	
REMAR	KS:								
									10/7/2014
					UXO QC Spec	cialist	Richard Ricks		DATE
and mater contract di	of the contractor, I certify that this report is al used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the					
report.					QC Engineer		Brian White		DATE
				QUALITY ASSURAN			DATE		
QUALITY A	SSURANCE REPRESENTATIVE'S	REMAR	KKS ANI	D/OR EXCEPTIONS TO THE REPOR	(I				
					GOVERNMEN	IT QUALITY ASSURANCE	MANAGER		DATE

				CTOR QUALITY				Report No. 5	
				CONTRACT: N62473-10 I	1.O	. 0106		Date	10/8/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO			ORK, SPECIFICATION SECTION,	LOCATION AND LIST	T PERSONNEL PRE	SENT
	PLANS AND SPECS	✓		Definable feature/s of work	(see continuati	on page)			
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE	/		Done on 10/05/14					
RΥ	BEEN APPROVED. MATERIALS COMPLY WITH] [1					
2	APPROVED SUBMITTALS	✓							
PREPARATORY	MATERIALS STORED	~]					
Α̈́	PROPERLY. PRELIMINARY WORK WAS			-					
Ĕ	DONE CORRECTLY.	✓							
P	TESTING PLAN HAS BEEN	V		1					
	REVIEWED. WORK METHOD AND] [
	SCHEDULE DISCUSSED.	\checkmark							
	JOB SAFETY / HAZARD	~		1					
	ANALYSIS ADDRESSED	Ť		D 40/06/44			7		
	PRELIMINARY WORK WAS DONE CORRECTLY	✓		Done on 10/06/14 Test plot for Em61 and school	nstedts was instal	led	TES	TING PERFORMED PERFORMED TES	
	SAMPLE HAS BEEN	~		All equipment wastested on t			All Metal Dete	ctors on site ha	
	PREPARED/APPROVED	ì	Ш				been tested.		LD: L
I≱	WORKMANSHIP IS SATISFACTORY	✓					#254343 good	ested by Richar	J RICKS
INITIAL	TEST RESULTS ARE	~		1			#251272 good		
-	ACCEPTABLE.	Ů	Ш				#240234 good		
	WORK IS IN COMPLIANCE WITH THE CONTRACT.	✓				EM61 tested #1230 good #1231 good			
	WORK COMPLIES WITH								
	SAFETY REQUIREMENTS	✓							
	WORK COMPLIES WITH	V		Definable feature/s of Sweep areas ahead of EM		and all high upo prope	TES	TING PERFORMED	
ļ	CONTRACT AS APPROVED INITIAL PHASE	Ů	Ш	with schonstedt.	nor down trails	and all nigh use areas	Schonstedt's tes	PERFORMED TES sted each day at to	
	WORK COMPLIES WITH	√	П	EM61 will follow UXO Tec	h's and only sca	n areas that are		test's there own d	-
,	SAFETY REQUIREMENTS			cleared by schonstedt's			#251272 Show	m Mayan	
٩							#251272 Shaw #240234 Richa	•	
۸-۱									
LOW-UP	Area Surface Swept. trails and high use areas			Area Sub-Surface Investi areas in which EM61 could i	-				
	trans and mgn use areas			due to terrain or biological ha					
Б									
	NOTE:								
REWORK I	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO	DDAY (FROM REWO	RK ITEMS LIST)	
N/A						N/A			
DEMAR	oke.								
REMAR	ino.								
									10/8/2014
					UXO QC Spe	cialist	Richard Ricks		DATE
0-11"									
and mater	of the contractor, I certify that this report is ial used and work performed during this re rawings and specifications to the best of m	porting pe	eriod is in o	compliance with the					
report.		•			QC Engineer		Brian White		DATE
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QUALITY A				D/OR EXCEPTIONS TO THE REPOR			•		
					GOVERNME	NT QUALITY ASSURANCE	MANAGER		DATE

				TOR QUALITY				Report No.	
				CONTRACT: N62473-10				Date	10/9/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO			/ORK, SPECIFICATION SECTION,	LOCATION AND LIST	T PERSONNEL PRE	SENT
	PLANS AND SPECS HAVE BEEN REVIEWED	✓		Definable feature/s of work Done on 10/05/14	(see continuati	on page)			
	THE SUBMITTALS HAVE BEEN APPROVED.	√		Done on 10/03/14					
R	MATERIALS COMPLY WITH								
잍	APPROVED SUBMITTALS	>							
\RA	MATERIALS STORED PROPERLY.	~							
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	✓							
_	TESTING PLAN HAS BEEN REVIEWED.	√							
	WORK METHOD AND SCHEDULE DISCUSSED.	V							
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	V							
	PRELIMINARY WORK WAS	~		Done on 10/06/14			TES	STING PERFORMED	
	DONE CORRECTLY SAMPLE HAS BEEN			Test plot for Em61 and schor All equipment wastested on t	nstedts was installed PERFORMED test plot All Metal Detectors on site				
AL.	PREPARED/APPROVED WORKMANSHIP IS						been tested. schonstedts te	ested by Richa	rd Ricks
INITIAL	SATISFACTORY TEST RESULTS ARE	1					#254343 good #251272 good		
_	ACCEPTABLE. WORK IS IN COMPLIANCE						#240234 good EM61 tested b		
	WITH THE CONTRACT. WORK COMPLIES WITH					#1230 good #1231 good			
	SAFETY REQUIREMENTS	✓				Ĭ			
<u> </u>	WORK COMPLIES WITH CONTRACT AS APPROVED	~			Sweep areas ahead of EM 61 down trails and all high use areas			PERFORMED TE	ST
	INITIAL PHASE WORK COMPLIES WITH			with schonstedt. EM61 will follow UXO Tec	h's and only sca	en areas that are		sted each day at test's there own o	-
,	SAFETY REQUIREMENTS	✓	Ш	cleared by schonstedt's	iro and only ood	arrareas triat are	ream member	tests there own c	icicciói.
ا				-			#251272 Shaw #240234 Richa	-	
FOLLOW-UP	Area Surface Swept. trails and high use areas			Area Sub-Surface Investi areas in which EM61 could r due to terrain or biological ha	not follow				
	NOTE: Worked beach area today ha	ad to w	atch fo	,					
rework i N/A	TEMS IDENTIFIED TODAY (NOT C	CORREC	CTED BY	CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO N/A	DDAY (FROM REWO	RK ITEMS LIST)	
REMAR	KS:								
									10/9/2014
					UXO QC Spe	cialist	Richard Ricks		DATE
and mater	of the contractor, I certify that this report is all used and work performed during this re	porting pe	eriod is in o	compliance with the					
contract di report.	awings and specifications to the best of m	y knowled	ige except	as noted in this	QC Engineer		Brian White		DATE
	GOVE	RNN	IENT	QUALITY ASSURAN	CE REPOR	Г	DATE		
QUALITY A	SSURANCE REPRESENTATIVE'S	REMAI	RKS ANI	O/OR EXCEPTIONS TO THE REPOR	T.				
					GOVERNME	NT QUALITY ASSURANCE	MANAGER		DATE

				CTOR QUALITY CONTRACT: N62473-10				Report No. Date	500265-001 10/10/2014
PHASE		YES					I OCATION AND LIE		
PHASE	(BLANK - NOT APPLICABLE) PLANS AND SPECS			Definable feature/s of work		ORK, SPECIFICATION SECTION,	LOCATION AND LIS	I PERSONNEL PRI	ESENI
	HAVE BEEN REVIEWED	✓	Ш	Done on 10/05/14	((CCC COTTUTAL)	on page,			
	THE SUBMITTALS HAVE BEEN APPROVED.	√							
8	MATERIALS COMPLY WITH	/							
10	APPROVED SUBMITTALS	ŭ	Ш						
PREPARATORY	MATERIALS STORED PROPERLY.	✓							
(EP/	PRELIMINARY WORK WAS DONE CORRECTLY.	\							
PA	TESTING PLAN HAS BEEN REVIEWED.	~							
	WORK METHOD AND SCHEDULE DISCUSSED.	~							
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	✓							
	PRELIMINARY WORK WAS	~	Done on 10/06/14 Test plot for Em61 and schonstedts was installed						O & WHO
	DONE CORRECTLY SAMPLE HAS BEEN	/		All equipment wastested on t		led		PERFORMED TE ectors on site h	
IAL	PREPARED/APPROVED — I — I						ested by Richa	rd Ricks	
INITIAL	SATISFACTORY TEST RESULTS ARE						#254343 good #251272 good	d	
	ACCEPTABLE. WORK IS IN COMPLIANCE	-					#240234 good EM61 tested I		
	WITH THE CONTRACT. WORK COMPLIES WITH						#1230 good #1231 good		
	SAFETY REQUIREMENTS	Ù		Definable feature/s of					
<u> </u>	WORK COMPLIES WITH CONTRACT AS APPROVED	✓		Definable feature/s of Sweep areas ahead of EN		and all high use areas		PERFORMED TE	ST
	INITIAL PHASE WORK COMPLIES WITH	V		with schonstedt. EM61 will follow UXO Tec	h's and only sca	an areas that are		sted each day at test's there own	-
,	SAFETY REQUIREMENTS	Ů	Ш	cleared by schonstedt's	·				
UP							#251272 Shaw #240234 Richa	-	
LOW-UP	Area Surface Swept.			Area Sub-Surface Investi	gated:				
	trails and high use areas			areas in which EM61 could r due to terrain or biological ha	not follow				
FOL				due to terrain or biological in	azarus				
	NOTE: finish sweep of beach								
	misii sweep of beach								
REWORK	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO	DDAY (FROM REWO	RK ITEMS LIST)	
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REMAR	KS:								
									10/10/2014
					UXO QC Spe	cialist	Richard Ricks		DATE
On hahalf	of the contractor, I certify that this report is	complet	ad and ac-	rect and equipment					
and mater	in the contractor, it centry that this report is ial used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the	QC Engineer		Brian White		DATE
				OHALIST ASSESSED		-	1		
				QUALITY ASSURAN		<u> </u>	DATE		
QUALITY A	SOUNAINOL REPRESENTATIVES	, INCIVIAI	ANL	OF LAGER HONG TO THE REPOR	. 1				
					GOVERNME	NT QUALITY ASSURANCE	MANAGER		DATE

				CTOR QUALITY				Report No.	
				CONTRACT: N62473-10				Date	10/13/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO			ORK, SPECIFICATION SECTION,	LOCATION AND LIST	T PERSONNEL PR	ESENT
	PLANS AND SPECS	✓		Definable feature/s of work Done on 10/05/14	(see continuati	on page)			
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE BEEN APPROVED.	√		Done on 10/03/14					
R	MATERIALS COMPLY WITH			1					
잍	APPROVED SUBMITTALS	>							
'RA'	MATERIALS STORED PROPERLY.	>							
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	>							
_	TESTING PLAN HAS BEEN REVIEWED.	√							
	WORK METHOD AND SCHEDULE DISCUSSED.	/							
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	✓							
	PRELIMINARY WORK WAS	~		Done on 10/06/14			TES	STING PERFORME	
	DONE CORRECTLY SAMPLE HAS BEEN	\		Test plot for Em61 and schor All equipment wastested on t		ed	All Metal Dete	PERFORMED TE ectors on site h	
PREPARED/APPROVED WORKMANSHIP IS ANTIGNATION ANTIGNATION				1					ard Ricks
INITIAL	SATISFACTORY TEST RESULTS ARE			•			#254343 good #251272 good	b	
	ACCEPTABLE. WORK IS IN COMPLIANCE	-					#240234 good EM61 tested b		
	WITH THE CONTRACT. WORK COMPLIES WITH				#1230 goo #1231 goo				
	SAFETY REQUIREMENTS	j		Definable feature/s of					
<u> </u>	WORK COMPLIES WITH CONTRACT AS APPROVED	✓		Definable feature/s of Sweep areas ahead of EM		and all high use areas		PERFORMED TE	EST
	INITIAL PHASE WORK COMPLIES WITH			with schonstedt. EM61 will follow UXO Tech	h's and only sca	in areas that are		sted each day at test's there own	-
,	SAFETY REQUIREMENTS	>		cleared by schonstedt's	•				
린							#251272 Shaw #240234 Richa	-	
۸-۱							#254343 Joel S		
LOW-UP	Area Surface Swept.			Area Sub-Surface Investi areas in which EM61 could r	-				
	trails and high use areas			due to terrain or biological ha					
FO				C					
	NOTE:								
	New UXO Tech came today shown test plot	and							
	shown test plot								
REWORK I	TEMS IDENTIFIED TODAY (NOT C	ORREC	CTED BY	CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO	DAY (FROM REWOR	RK ITEMS LIST)	
GPS loc	king in to 2-3 meters due t	o batt	ery	, in the second		N/A	·	·	
REMAR	IVC.								
KEWAK	.No.								
									10/13/2014
					UXO QC Spe	cialist	Richard Ricks		DATE
On behalf	of the contractor, I certify that this report is	complete	ed and cor	rect and equipment					
and mater	al used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the	QC Engineer		Brian White		DATE
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QUALITY A				D/OR EXCEPTIONS TO THE REPOR		1	DATE		
					GOVERNME	NT QUALITY ASSURANCE	MANAGER	<u></u>	DATE

				TOR QUALITY				Report No.		
				CONTRACT: N62473-10			L	Date	10/14/2014	
PHASE	(BLANK - NOT APPLICABLE)	YES	NO			ORK, SPECIFICATION SECTION, L	OCATION AND LIST	PERSONNEL PR	ESENT	
	PLANS AND SPECS	~		Definable feature/s of work Done on 10/05/14	(see continuati	on page)				
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE BEEN APPROVED.	✓		Done on 10/03/14						
R	MATERIALS COMPLY WITH									
잍	APPROVED SUBMITTALS	>								
'RA'	MATERIALS STORED PROPERLY.	<								
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	>								
_	TESTING PLAN HAS BEEN REVIEWED.	\								
	WORK METHOD AND SCHEDULE DISCUSSED.	\								
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	\								
	PRELIMINARY WORK WAS	PRELIMINARY WORK WAS Done on 10/06/14							D & WHO	
	DONE CORRECTLY SAMPLE HAS BEEN PREPARED/APPROVED	\		All equipment wastested on t		eu	All Metal Detec	PERFORMED TE ctors on site h		
INITIAL	WORKMANSHIP IS	>			been test schonste				rd Ricks	
N	SATISFACTORY TEST RESULTS ARE	>				#25		#254343 good #251272 good		
	ACCEPTABLE. WORK IS IN COMPLIANCE	7					#240234 good EM61 tested b			
	WITH THE CONTRACT. WORK COMPLIES WITH	\ \					#1230 good #1231 good			
	SAFETY REQUIREMENTS WORK COMPLIES WITH]		Definable feature/s of	work		TEO	TING PERFORME	D 8 WHO	
<u> </u>	CONTRACT AS APPROVED	\		Sweep areas ahead of EM with schonstedt.		and all high use areas	Schonstedt's test	PERFORMED TE	ST	
	INITIAL PHASE WORK COMPLIES WITH	~		EM61 will follow UXO Tec	h's and only sca	n areas that are	Team member to	-	-	
,	SAFETY REQUIREMENTS	Ù	Ш	cleared by schonstedt's						
鱼							#251272 Shawi #240234 Richar	•		
۸-۱							#254343 Joel Si	ivertsen		
LOW-UP	Area Surface Swept.			Area Sub-Surface Investi areas in which EM61 could r	-					
	trails and high use areas			due to terrain or biological ha						
Б				-						
	NOTE:									
REWORK	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO	DAY (FROM REWOR	PK ITEMS LIST)		
N/A	TEMO ISENTIFIES TOSSIT (NOT C	ONNEC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CLOSE OF BOOMEDO,		GPS back after charging ba	•	arriemo Eloty		
REMAR	KS:									
									10/14/2014	
					UXO QC Spec	cialist	Richard Ricks		DATE	
On behalf	of the contractor, I certify that this report is	complete	ed and cor	rect and equipment						
and mater	al used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the	QC Engineer		Brian White		DATE	
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QUALITY A				O/OR EXCEPTIONS TO THE REPOR		<u> </u>	חאוב			
					GOVERNMEN	IT QUALITY ASSURANCE	MANAGER		DATE	

				CTOR QUALITY CONTROL REPORT		Report No. 500265-001		
				CONTRACT: N62473-10-D-4009 T.O. 0106		Date 10/15/2014		
PHASE	,	YES	NO —	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SEC	CTION, LOCATION AND LIST	T PERSONNEL PRESENT		
	PLANS AND SPECS HAVE BEEN REVIEWED	✓		Definable feature/s of work (see continuation page) Done on 10/05/14				
	THE SUBMITTALS HAVE	~		Done on 10/03/14				
≿	BEEN APPROVED.	Ů						
O.	MATERIALS COMPLY WITH APPROVED SUBMITTALS	✓						
ΑT	MATERIALS STORED	V						
AR	PROPERLY.	ĭ						
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	√						
PR	TESTING PLAN HAS BEEN	~						
	REVIEWED.	ŭ						
	WORK METHOD AND SCHEDULE DISCUSSED.	✓						
	JOB SAFETY / HAZARD	~						
	ANALYSIS ADDRESSED	Ů		D 4006/44				
	PRELIMINARY WORK WAS DONE CORRECTLY	\checkmark		Done on 10/06/14 Test plot for Em61 and schonstedts was installed	TES	TING PERFORMED & WHO PERFORMED TEST		
	SAMPLE HAS BEEN	V		All equipment wastested on test plot	All Metal Dete	ectors on site have		
ږ	PREPARED/APPROVED	ì			been tested.	acted by Diabard Diaka		
I¥	WORKMANSHIP IS SATISFACTORY	✓			#254343 good	ested by Richard Ricks		
INITIAL	TEST RESULTS ARE	V			#251272 good	t		
	ACCEPTABLE. WORK IS IN COMPLIANCE				#240234 good EM61 tested b			
	WITH THE CONTRACT.	\checkmark			#1230 good			
	WORK COMPLIES WITH	~			#1231 good			
	SAFETY REQUIREMENTS]		Definable feature/s of work.	TEC	TIMO DEDECOMED 8 M/HO		
	WORK COMPLIES WITH CONTRACT AS APPROVED	/		Sweep areas ahead of EM 61 down trails and all high use area		TING PERFORMED & WHO PERFORMED TEST		
<u></u>	INITIAL PHASE			with schonstedt.	Schonstedt's tes	sted each day at test plot.		
	WORK COMPLIES WITH SAFETY REQUIREMENTS	✓		EM61 will follow UXO Tech's and only scan areas that are cleared by schonstedt's	Team member	test's there own detector.		
,	SAFETT REQUIREMENTS	l		Cleared by Schonstedt's	#251272 Joel S	Sivertsen		
LOW-UP					#240234 Shaw	n Meyer		
≶	Area Surface Swept.			Area Sub-Surface Investigated:				
LC	trails and high use areas			areas in which EM61 could not follow				
F0.				due to terrain or biological hazards				
	NOTE:							
REWORK	ITEMS IDENTIFIED TODAY (NOT C	ORRE	CTED BY	CLOSE OF BUSINESS) REWORK ITEMS CORRECT N/A	CTED TODAY (FROM REWO	RK ITEMS LIST)		
REMAR		-		un de la ciale de				
access	Ran EM61 in sideways all the narrow trails. Tes		_			10/15/2014		
				UXO QC Specialist	Richard Ricks	DATE		
and mater	of the contractor, I certify that this report is ial used and work performed during this re rawings and specifications to the best of m	porting pe	eriod is in o	compliance with the				
report.	go and oppositionations to the best of th	,lowid	-90 ovoch					
	GOVE	RNN	/ENT	QUALITY ASSURANCE REPORT	DATE			
QUALITY A				D/OR EXCEPTIONS TO THE REPORT	1			
	ASSURANCE REPRESENTATIVE S	I I L IVIA	INNO AINI					
	SSURANCE REPRESENTATIVES	TYLIVIA	KNO ANI					
	SSURANCE REPRESENTATIVE S	TEMA	KKO ANI					
	ISSURANCE REPRESENTATIVES	, IXEIVIA	KKS AINI	GOVERNMENT QUALITY ASSUR		DATE		

				CTOR QUALITY CONTRO			Report No.		
				CONTRACT: N62473-10-D-4009 T.O.		I	Date	10/16/2014	
PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WO		DCATION AND LIST	PERSONNEL PRE	SENT	
	PLANS AND SPECS HAVE BEEN REVIEWED	~		Definable feature/s of work (see continuation Done on 10/05/14	n page)				
	THE SUBMITTALS HAVE BEEN APPROVED.	\		Done on 10/03/14					
R	MATERIALS COMPLY WITH								
잍	APPROVED SUBMITTALS	>							
'RA	MATERIALS STORED PROPERLY.	<							
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	\							
	TESTING PLAN HAS BEEN REVIEWED.	>							
	WORK METHOD AND SCHEDULE DISCUSSED.	>							
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	\							
	PRELIMINARY WORK WAS DONE CORRECTLY Done on 10/06/14 Test plot for Em61 and schonstedts was installed							& WHO	
	SAMPLE HAS BEEN PREPARED/APPROVED	\		All equipment wastested on test plot		All Metal Detection	PERFORMED TE ctors on site ha		
INITIAL	WORKMANSHIP IS SATISFACTORY	\				schonstedts te #254343 good		d Ricks	
Ē	TEST RESULTS ARE ACCEPTABLE.	\				#251272 good #240234 good			
	WORK IS IN COMPLIANCE WITH THE CONTRACT.	>				EM61 tested b #1230 good			
	WORK COMPLIES WITH SAFETY REQUIREMENTS	\			#1231 good				
	WORK COMPLIES WITH]	_	Definable feature/s of work.		TES	TING PERFORMED	& WHO	
	CONTRACT AS APPROVED INITIAL PHASE	>		Sweep areas ahead of EM 61 down trails a with schonstedt.		Schonstedt's tes	PERFORMED TE ted each day at t		
	WORK COMPLIES WITH	\		EM61 will follow UXO Tech's and only scan			est's there own d		
,	SAFETY REQUIREMENTS			cleared by schonstedt's		#251272 Joel S	livertsen		
LOW-UP						#240234 Shawr			
≱	Area Surface Swept.			Area Sub-Surface Investigated:		#254343 Richar	rd Ricks		
ГО	trails and high use areas			areas in which EM61 could not follow					
FOL				due to terrain or biological hazards					
ш	NOTE:								
	NOTE.								
	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	*	EWORK ITEMS CORRECTED TOD	AY (FROM REWOR	RK ITEMS LIST)		
N/A					I/A				
REMAR	KS:								
								10/16/2014	
				UXO QC Speci	alist I	Richard Ricks		DATE	
and mater contract di	of the contractor, I certify that this report is al used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the					
report.									
	GOVE	RNN	IENT	QUALITY ASSURANCE REPORT		DATE			
QUALITY A	SSURANCE REPRESENTATIVE'S	REMAR	RKS AND	D/OR EXCEPTIONS TO THE REPORT					
				GOVERNMEN ⁻	QUALITY ASSURANCE I	MANAGER		DATE	

				CTOR QUALITY CONTROL		· ·	rt No. 500265-001
				CONTRACT: N62473-10-D-4009 T.O. 01		Date	10/17/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK		CATION AND LIST PERS	ONNEL PRESENT
	PLANS AND SPECS HAVE BEEN REVIEWED	✓		Definable feature/s of work (see continuation p Done on 10/05/14	page)		
	THE SUBMITTALS HAVE BEEN APPROVED.	✓		Done on 10/03/14			
R	MATERIALS COMPLY WITH						
잍	APPROVED SUBMITTALS	>					
'RA'	MATERIALS STORED PROPERLY.	\					
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	\					
_	TESTING PLAN HAS BEEN REVIEWED.	✓					
	WORK METHOD AND SCHEDULE DISCUSSED.	\					
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	✓					
	PRELIMINARY WORK WAS DONE CORRECTLY	~		Done on 10/06/14 Test plot for Em61 and schonstedts was installed			ERFORMED & WHO ORMED TEST
	SAMPLE HAS BEEN PREPARED/APPROVED	V		All equipment wastested on test plot		All Metal Detectors of the steel ste	
INITIAL	WORKMANSHIP IS	/			5	schonstedts tested	by Richard Ricks
N	SATISFACTORY TEST RESULTS ARE	~			7	#254343 good #251272 good #240234 good	
	ACCEPTABLE. WORK IS IN COMPLIANCE	~			EN		k Kick
	WITH THE CONTRACT. WORK COMPLIES WITH	V				#1230 good #1231 good	
	SAFETY REQUIREMENTS WORK COMPLIES WITH			Definable feature/s of work.		TESTING D	ERFORMED & WHO
<u> </u>	CONTRACT AS APPROVED INITIAL PHASE	✓		Sweep areas ahead of EM 61 down trails and with schonstedt.			ORMED TEST
	WORK COMPLIES WITH	V		EM61 will follow UXO Tech's and only scan ar		Team member test's th	
,	SAFETY REQUIREMENTS	ت	Ш	cleared by schonstedt's			
₽						#251272 Joel Siverts #240234 Shawn Meye	
<u>۲</u> -۲						#254343 Richard Rich	
LOW-UP	Area Surface Swept.			Area Sub-Surface Investigated:			
	trails and high use areas			areas in which EM61 could not follow			
FO				due to terrain or biological hazards			
	NOTE:						
REWORK I	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	CLOSE OF BUSINESS) REW N/A	ORK ITEMS CORRECTED TODA	AY (FROM REWORK ITEM	IS LIST)
. */ /~\				IN/A	•		
REMAR	KS:			<u> </u>			
							10/17/2014
				UXO QC Specialis	st R	Richard Ricks	DATE
and mater	of the contractor, I certify that this report is all used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the			
report.	g_ and oppositions to the best of the	,owiet	-50 ovoch				
	GOVF	RNN	IENT	QUALITY ASSURANCE REPORT	Iı	DATE	
QUALITY A				O/OR EXCEPTIONS TO THE REPORT	<u> </u> '	· · · -	
				GOVERNMENT C	QUALITY ASSURANCE N	MANAGER	DATE

				CTOR QUALITY CONTROL REPO	ORI	Report No. 500265-001
				CONTRACT: N62473-10-D-4009 T.O. 0106		Date 10/20/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION	ON SECTION, LOCATION AND LIS	T PERSONNEL PRESENT
	PLANS AND SPECS HAVE BEEN REVIEWED	✓		Definable feature/s of work (see continuation page) Done on 10/05/14		
	THE SUBMITTALS HAVE BEEN APPROVED.	√		Done on 10/03/14		
R	MATERIALS COMPLY WITH					
잍	APPROVED SUBMITTALS	✓				
\RA	MATERIALS STORED PROPERLY.	~				
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	\				
_	TESTING PLAN HAS BEEN REVIEWED.	V				
	WORK METHOD AND SCHEDULE DISCUSSED.	V				
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	~				
	PRELIMINARY WORK WAS DONE CORRECTLY	~		Done on 10/06/14 Test plot for Em61 and schonstedts was installed	TES	STING PERFORMED & WHO PERFORMED TEST
	SAMPLE HAS BEEN PREPARED/APPROVED	~		All equipment wastested on test plot	All Metal Dete	ectors on site have
INITIAL	WORKMANSHIP IS	V			schonstedts to	ested by Richard Ricks
Ξ	SATISFACTORY TEST RESULTS ARE	V			#254343 good #251272 good	d
	ACCEPTABLE. WORK IS IN COMPLIANCE	~			#240234 good EM61 tested I #1230 good	
	WITH THE CONTRACT. WORK COMPLIES WITH	V			#1230 good #1231 good	
	SAFETY REQUIREMENTS WORK COMPLIES WITH			Definable feature/s of work.	TEC	STING PERFORMED & WHO
<u> </u>	CONTRACT AS APPROVED INITIAL PHASE	✓		Sweep areas ahead of EM 61 down trails and all high use with schonstedt.	e areas	PERFORMED TEST sted each day at test plot.
	WORK COMPLIES WITH	V		EM61 will follow UXO Tech's and only scan areas that are		test's there own detector.
,	SAFETY REQUIREMENTS	ت	Ш	cleared by schonstedt's		
₽					#251272 Joel 9 #240234 Shaw	
۲-۱					#254343 Richa	-
LOW-UP	Area Surface Swept.			Area Sub-Surface Investigated:		
	trails and high use areas			areas in which EM61 could not follow		
FO				due to terrain or biological hazards		
	NOTE:					
REWORK I	TEMS IDENTIFIED TODAY (NOT C	CORREC	CTED BY	CLOSE OF BUSINESS) REWORK ITEMS CO	ORRECTED TODAY (FROM REWO	RK ITEMS LIST)
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REMAR	KS:			·		
						10/20/2014
				UXO QC Specialist	Richard Ricks	DATE
and mater	of the contractor, I certify that this report is ial used and work performed during this re rawings and specifications to the best of m	porting pe	eriod is in o	compliance with the		
report.	gs and opposition to the bost of the	,owiet	-90 ovoch			
	GOVF	RNN	/ENT	QUALITY ASSURANCE REPORT	DATE	
QUALITY A				O/OR EXCEPTIONS TO THE REPORT	BATE	
				GOVERNMENT QUALITY AS	SSURANCE MANAGER	DATE

				CTOR QUALITY CONTRO		· ·	o. 500265-001
	CB&I Federal Service			CONTRACT: N62473-10-D-4009 T.O. 0)106	Date	10/21/2014
PHASE	,	YES	NO	IDENTIFY DEFINABLE FEATURE OF WOR		CATION AND LIST PERSONNE	L PRESENT
	PLANS AND SPECS	✓		Definable feature/s of work (see continuation Done on 10/05/14	page)		
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE]	Done on 10/03/14			
>	BEEN APPROVED.	>					
OR	MATERIALS COMPLY WITH	✓					
ΔŢ	APPROVED SUBMITTALS MATERIALS STORED						
Ϋ́	PROPERLY.	✓	Ш				
PREPARATORY	PRELIMINARY WORK WAS	7					
Ϋ́E	DONE CORRECTLY. TESTING PLAN HAS BEEN	_] [
ш.	REVIEWED.	✓	Ш				
	WORK METHOD AND	>					
	SCHEDULE DISCUSSED. JOB SAFETY / HAZARD						
	ANALYSIS ADDRESSED	>					
	PRELIMINARY WORK WAS	>		Done on 10/06/14		TESTING PERFO	RMED & WHO
	DONE CORRECTLY SAMPLE HAS BEEN]	Test plot for Em61 and schonstedts was installed All equipment wastested on test plot		PERFORM All Metal Detectors on s	
	PREPARED/APPROVED	✓		An equipment wastested on test plot		been tested.	te nave
Ψ	WORKMANSHIP IS	>				schonstedts tested by R	ichard Ricks
INITIAL	SATISFACTORY TEST RESULTS ARE] [#254343 good #251272 good	
=	ACCEPTABLE.	✓	Ш			#240234 good	
	WORK IS IN COMPLIANCE	>				EM61 tested by Mark Ki	ck
	WITH THE CONTRACT. WORK COMPLIES WITH] [#1230 good #1231 good	
	SAFETY REQUIREMENTS	>				, 1201 good	
	WORK COMPLIES WITH]]	Definable feature/s of work.		TESTING PERFO	RMED & WHO
Ш	CONTRACT AS APPROVED	✓	Ш	Sweep areas ahead of EM 61 down trails at with schonstedt.		PERFORMI Schonstedt's tested each da	
	INITIAL PHASE WORK COMPLIES WITH	√		EM61 will follow UXO Tech's and only scan		Feam member test's there	
,	SAFETY REQUIREMENTS	Ĭ		cleared by schonstedt's			
₫						#251272 Joel Sivertsen #240234 Shawn Meyer	
∩- ⁄						#254343 Richard Ricks	
LOW-UP	Area Surface Swept.			Area Sub-Surface Investigated:			
	trails and high use areas			areas in which EM61 could not follow due to terrain or biological hazards			
FO				due to terrain or orotogical nazards			
	NOTE:						
REWORK	I ITEMS IDENTIFIED TODAY (NOT C	ORRE	CTED BY	CLOSE OF BUSINESS) RE	WORK ITEMS CORRECTED TODA	AY (FROM REWORK ITEMS LIS	T)
N/A				N/	′A	•	
REMAF	01/0-						
	had some no finds toda	y so r	eteste	d			
	ent at completion of day			ipment passed QC			10/21/2014
				UXO QC Specia	llist F	Richard Ricks	DATE
On bohalf	of the contractor, I certify that this report is	complete	nd and cor	yest and equipment			
and mater contract d	of the contractor, i certify that this report is ial used and work performed during this re rawings and specifications to the best of m	porting pe	eriod is in o	compliance with the			
report.							
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				COVEDNIMENT	QUALITY ASSURANCE N	MANAGER	DATE

				TOR QUALITY CONTROL REPORT		Report No. 500265-001
	CB&I Federal Service	s, LL	.C (CONTRACT: N62473-10-D-4009 T.O. 0106		Date 10/22/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION SECTION	, LOCATION AND LIST	PERSONNEL PRESENT
	PLANS AND SPECS	\		Definable feature/s of work (see continuation page)		
	HAVE BEEN REVIEWED THE SUBMITTALS HAVE			Done on 10/05/14		
>	BEEN APPROVED.	>	Ш			
OR	MATERIALS COMPLY WITH	>				
ΑŢ	APPROVED SUBMITTALS MATERIALS STORED					
AR.	PROPERLY.	>	Ш			
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	√				
PR	TESTING PLAN HAS BEEN	V				
	REVIEWED.	7				
	WORK METHOD AND SCHEDULE DISCUSSED.	√				
	JOB SAFETY / HAZARD	\				
	ANALYSIS ADDRESSED			D		
	PRELIMINARY WORK WAS DONE CORRECTLY	✓		Done on 10/06/14 Test plot for Em61 and schonstedts was installed	IES	TING PERFORMED & WHO PERFORMED TEST
	SAMPLE HAS BEEN	>		All equipment wastested on test plot		ctors on site have
7	PREPARED/APPROVED WORKMANSHIP IS] [been tested.	sted by Richard Ricks
INITIAL	SATISFACTORY	>			#254343 good	·
Z	TEST RESULTS ARE	✓			#251272 good #240234 good	
	ACCEPTABLE. WORK IS IN COMPLIANCE				#240234 good	
	WITH THE CONTRACT.	>	Ш			
	WORK COMPLIES WITH SAFETY REQUIREMENTS	✓				
	WORK COMPLIES WITH]]	Definable feature/s of work.	TEST	TING PERFORMED & WHO
	CONTRACT AS APPROVED	✓	Ш	Mag and dig points found by EM61.	C-1	PERFORMED TEST
	INITIAL PHASE WORK COMPLIES WITH	✓		Sweep areas scientists may use on the island with Schonstedts		ted each day at test plot. est's there own detector.
,	SAFETY REQUIREMENTS	ŭ				
鱼					#251272 Joel S #240234 Shawn	
OW-UP					#254343 Richar	-
o-	Area Surface Swept. trails and high use areas			Area Sub-Surface Investigated: areas in which EM61 went and found		
FOLI	trans and mgn use areas			anomalies and trails if located by		
Ĭ.	NOTE:			Schonstedt		
	NOIE.					
REWORK I N/A	TEMS IDENTIFIED TODAY (NOT C	ORRE	CTED BY	CLOSE OF BUSINESS) REWORK ITEMS CORRECTED T N/A	ODAY (FROM REWOR	RK ITEMS LIST)
IN/A				N/A		
REMAR		_				
	placed seed item in path	n for c	heck	on EM61		10/22/2014
				UXO QC Specialist	Richard Ricks	DATE
and mater	of the contractor, I certify that this report is ial used and work performed during this re rawings and specifications to the best of m	porting pe	eriod is in o	compliance with the		
report.	ачиндо ана эреаниацино to the best of M	y ni iowiei	лус ехсері	40 HOUGH H 1830		
	GOVE	RNN	/IENT	QUALITY ASSURANCE REPORT	DATE	
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				GOVERNMENT QUALITY ASSURANCE	E MANAGFR	DATE
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	CO	RT	Report No. 500265-001 Date 10/23/2014			
DUAGE				CONTRACT: N62473-10-D-4009 T.O. 0106		
PHASE	(BLANK - NOT APPLICABLE) PLANS AND SPECS	YES	NO	IDENTIFY DEFINABLE FEATURE OF WORK, SPECIFICATION S Definable feature/s of work (see continuation page)	ECTION, LOCATION AND LIS	T PERSONNEL PRESENT
	HAVE BEEN REVIEWED	✓	Ш	Done on 10/05/14		
	THE SUBMITTALS HAVE	~		2010 01 10/00/11		
≿	BEEN APPROVED.	ľ				
, R	MATERIALS COMPLY WITH APPROVED SUBMITTALS	/				
AT	MATERIALS STORED					
AR	PROPERLY.	✓				
PREPARATORY	PRELIMINARY WORK WAS	√				
2	DONE CORRECTLY. TESTING PLAN HAS BEEN					
_	REVIEWED.	✓				
	WORK METHOD AND	✓				
	SCHEDULE DISCUSSED. JOB SAFETY / HAZARD					
	ANALYSIS ADDRESSED	✓				
	PRELIMINARY WORK WAS	~		Done on 10/06/14	TES	STING PERFORMED & WHO
	DONE CORRECTLY SAMPLE HAS BEEN			Test plot for Em61 and schonstedts was installed All equipment wastested on test plot	All Metal Dete	PERFORMED TEST ectors on site have
	PREPARED/APPROVED	✓		7 in equipment wastested on test plot	been tested.	otors on one have
Ι¥Ι	WORKMANSHIP IS	\				ested by Richard Ricks
INITIAL	SATISFACTORY TEST RESULTS ARE] [#254343 good #251272 good	
=	ACCEPTABLE.	✓			#240234 good	
	WORK IS IN COMPLIANCE	<				
	WITH THE CONTRACT. WORK COMPLIES WITH] [
	SAFETY REQUIREMENTS	✓				
	WORK COMPLIES WITH]	Definable feature/s of work.	TES	TING PERFORMED & WHO
	CONTRACT AS APPROVED	✓	Ш	Mag and dig points found by EM61. Sweep areas scientists may use on the island with	Cabanata dtla ta	PERFORMED TEST sted each day at test plot.
	INITIAL PHASE WORK COMPLIES WITH	V		Schonstedts		test's there own detector.
,	SAFETY REQUIREMENTS	Ů				
₫					#251272 Joel 9 #240234 Shaw	
]					#254343 Richa	-
LOW-UP	Area Surface Swept.			Area Sub-Surface Investigated:		
	trails and high use areas			areas in which EM61 went and found anomalies and trails if located by		
FOL				Schonstedt		
	NOTE:					
DEWORK I	TEMS IDENTIFIED TODAY (NOT C	`OPPE	TED BY	CLOSE OF BUSINESS) PEWORK ITEMS CORRE	ECTED TODAY (FROM REWO	DK ITEMS LIST/
N/A	TEMO IDEITH IED TODAT (NOT	ONNE	312001	N/A	TOTED TODAY (FROM NEW O	ARTHEMO EIOT)
REMAR	RKS: reran area of concern fo	und e	ti haas	em with EM61		
	retail area of concern to	, uiiu .	occu ii	em with Lino		10/23/2014
				UXO QC Specialist	Richard Ricks	DATE
and mater	of the contractor, I certify that this report is ial used and work performed during this re	porting p	eriod is in o	ompliance with the		
report.	rawings and specifications to the best of m					
	GOVE	RNN	/FNT	QUALITY ASSURANCE REPORT	DATE	
QUALITY A				O/OR EXCEPTIONS TO THE REPORT	DATE	
				GOVERNMENT QUALITY ASSU	RANCE MANAGER	DATE

	CO		Report No. 500265-001				
D				CONTRACT: N62473-10-D-4009 T.			Date 10/24/2014
PHASE	(BLANK - NOT APPLICABLE)	YES	NO	IDENTIFY DEFINABLE FEATURE OF Definable feature/s of work (see continua	WORK, SPECIFICATION SECTION,	LOCATION AND LIST	T PERSONNEL PRESENT
	PLANS AND SPECS HAVE BEEN REVIEWED	✓		Done on 10/05/14	ation page)		
	THE SUBMITTALS HAVE BEEN APPROVED.	\		Done on 10/03/14			
Ŗ	MATERIALS COMPLY WITH						
2	APPROVED SUBMITTALS	>	Ш				
۱RA	MATERIALS STORED PROPERLY.	~					
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	<					
_	TESTING PLAN HAS BEEN REVIEWED.	\					
	WORK METHOD AND SCHEDULE DISCUSSED.	>					
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	\					
	PRELIMINARY WORK WAS DONE CORRECTLY	\		Done on 10/06/14 Test plot for Em61 and schonstedts was inst	allad	TES	STING PERFORMED & WHO PERFORMED TEST
	SAMPLE HAS BEEN PREPARED/APPROVED	>		All equipment wastested on test plot	aned	All Metal Dete	ectors on site have
INITIAL	WORKMANSHIP IS	\					ested by Richard Ricks
I	SATISFACTORY TEST RESULTS ARE	>				#251272 good	d
	ACCEPTABLE. WORK IS IN COMPLIANCE	\				#240234 good	u
	WITH THE CONTRACT.	Y	Ш				
	WORK COMPLIES WITH SAFETY REQUIREMENTS	>					
	WORK COMPLIES WITH	<		Definable feature/s of work.		TES	STING PERFORMED & WHO
	CONTRACT AS APPROVED INITIAL PHASE	Ů	Ш	Mag and dig points found by EM61. Sweep areas scientists may use on the i	sland with	Schonstedt's tes	PERFORMED TEST sted each day at test plot.
	WORK COMPLIES WITH	>	П	Schonstedts			test's there own detector.
,	SAFETY REQUIREMENTS					#251272 Joel S	Sivertsen
UP						#240234 Shaw	
^				Anna Cula Cunfaca Inscratinate de	#254343 Richa	ard Ricks	
LOW-UP	Area Surface Swept. trails and high use areas			Area Sub-Surface Investigated: areas in which EM61 went and found			
FOL				anomalies and trails if located by			
Ĭ.	NOTE			Schonstedt			
	NOTE:						
REWORK I	TEMS IDENTIFIED TODAY (NOT C	ORREC	TED BY	CLOSE OF BUSINESS)	REWORK ITEMS CORRECTED TO	DDAY (FROM REWO	RK ITEMS LIST)
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REMAR	KS:				1		
							10/24/2014
				UXO QC Sp	ecialist	Richard Ricks	DATE
and materi	of the contractor, I certify that this report is all used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the			
report.	ампуз ана эрсинсанонь to the best of M	y ni iowied	чае ехсері	as noted in this			
	GOVE	RNN	IENT	QUALITY ASSURANCE REPOR	RT	DATE	
QUALITY A				D/OR EXCEPTIONS TO THE REPORT		•	
				GOVERNM	ENT QUALITY ASSURANCE	MANAGER	DATE

	CO CB&I Federal Service		Report No. 5	5 00265-001 10/27/2014					
DUACE									
PHASE	(BLANK - NOT APPLICABLE) PLANS AND SPECS	YES	NO	Definable feature/s of work		ORK, SPECIFICATION SECTION, L	OCATION AND LIST	PERSONNEL PRE	SENT
	HAVE BEEN REVIEWED	✓		Done on 10/05/14	(300 continuati	on page)			
	THE SUBMITTALS HAVE	V		1					
≿	BEEN APPROVED.	Ů		_					
9	MATERIALS COMPLY WITH APPROVED SUBMITTALS	✓							
AT	MATERIALS STORED			1					
AR	PROPERLY.	✓							
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	√							
2	TESTING PLAN HAS BEEN			1					
_	REVIEWED.	✓							
	WORK METHOD AND	✓							
	SCHEDULE DISCUSSED. JOB SAFETY / HAZARD]	†					
	ANALYSIS ADDRESSED	✓					=		
	PRELIMINARY WORK WAS	~		Done on 10/06/14			TES	TING PERFORMED	
	DONE CORRECTLY SAMPLE HAS BEEN			Test plot for Em61 and schor All equipment wastested on t		led	All Metal Dete	ctors on site ha	
	PREPARED/APPROVED	✓		An equipment wastested on t	est plot		been tested.	Stors on site ne	ive
ÞΓ	WORKMANSHIP IS	/						ested by Richar	d Ricks
INITIAL	SATISFACTORY TEST RESULTS ARE] [-			#254343 good #251272 good		
€	ACCEPTABLE.	✓					#240234 good		
	WORK IS IN COMPLIANCE	V							
	WITH THE CONTRACT.	Ù		4					
	WORK COMPLIES WITH SAFETY REQUIREMENTS	✓							
	WORK COMPLIES WITH			Definable feature/s of	work.		TES	TING PERFORMED	& WHO
	CONTRACT AS APPROVED	✓	Ш	Mag and dig points found b				PERFORMED TE	
	INITIAL PHASE WORK COMPLIES WITH]	Sweep areas scientists ma Schonstedts	y use on the isl	and with		sted each day at t	
,	SAFETY REQUIREMENTS	✓	Ш	Schonsteats			ream member t	ests there own o	ictector.
О∟				•			#251272 Joel S	Sivertsen	
LOW-UP									
×	Area Surface Swept.	Area Surface Swept.			gated:				
ΙŬ	trails and high use areas			areas in which EM61 went ar					
<u> </u>				anomalies and trails if located Schonstedt	l by				
_	NOTE:			Schonsteat					
REWORK I	ITEMS IDENTIFIED TODAY (NOT C	ORREC	CTED BY	'CLOSE OF BUSINESS)		REWORK ITEMS CORRECTED TO N/A	DAY (FROM REWOR	₹K ITEMS LIST)	
IN/A						IN/A			
REMAR	RKS:								
	relocated seed item off								40/07/0044
team 100	cated with schonstedt ar found and confirmed a lot				UXO QC Spe	cialist	Richard Ricks		10/27/2014 DATE
	Toung and Commined a lot	or not	TUCKS	today	ONO QO Spe	cialist	Michard Micks		DAIL
On behalf	of the contractor, I certify that this report is	complete	ed and cor	rect and equipment					
contract di report.	ial used and work performed during this re rawings and specifications to the best of m	porting pe	dge excep	t as noted in this					
				QUALITY ASSURAN		Γ	DATE		
QUALITY A	SSURANCE REPRESENTATIVE'S	REMAI	RKS ANI	D/OR EXCEPTIONS TO THE REPOR	T				
					GOVERNME!	NT QUALITY ASSURANCE	MANAGER		DATE
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	CO		Report No. 5						
				CONTRACT: N62473-10-D-400			l.	Date	10/28/2014
PHASE	,	YES	NO			RK, SPECIFICATION SECTION, LC	DCATION AND LIST	PERSONNEL PRE	SENT
	PLANS AND SPECS HAVE BEEN REVIEWED	~		Definable feature/s of work (see conditions on 10/05/14	continuatio	n page)			
	THE SUBMITTALS HAVE BEEN APPROVED.	\		Done on 10/03/14					
R	MATERIALS COMPLY WITH								
잍	APPROVED SUBMITTALS	>							
'RA'	MATERIALS STORED PROPERLY.	<							
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	>							
_	TESTING PLAN HAS BEEN REVIEWED.	\							
	WORK METHOD AND SCHEDULE DISCUSSED.	>							
	JOB SAFETY / HAZARD ANALYSIS ADDRESSED	>							
	PRELIMINARY WORK WAS	\		Done on 10/06/14 Test plot for Em61 and schonstedts v	was installa	4	TES	TING PERFORMED	
	DONE CORRECTLY SAMPLE HAS BEEN	\	П	All equipment wastested on test plot				PERFORMED TES ctors on site ha	
IAL	PREPARED/APPROVED WORKMANSHIP IS	\ \ \						ested by Richard	d Ricks
INITIAL	SATISFACTORY TEST RESULTS ARE	<u></u>					#254343 good #251272 good		
	ACCEPTABLE. WORK IS IN COMPLIANCE						#240234 good		
	WITH THE CONTRACT.	>	Ш						
	WORK COMPLIES WITH SAFETY REQUIREMENTS	>							
	WORK COMPLIES WITH CONTRACT AS APPROVED	\		Definable feature/s of work. Mag and dig points found by EM6			TES	TING PERFORMED PERFORMED TES	
	INITIAL PHASE			Sweep areas scientists may use of		nd with	Schonstedt's tes	ted each day at to	
	WORK COMPLIES WITH	~		Schonstedts			Team member to	est's there own de	etector.
,	SAFETY REQUIREMENTS			l			#251272 Joel S	livertsen	
FOLLOW-UP	Area Surface Swept. trails and high use areas NOTE:			Area Sub-Surface Investigated: areas in which EM61 went and foun anomalies and trails if located by Schonstedt					
REWORK I N/A	TEMS IDENTIFIED TODAY (NOT C	ORREC	CTED BY	CLOSE OF BUSINESS)		EWORK ITEMS CORRECTED TOD I/A	AY (FROM REWOR	RK ITEMS LIST)	
REMAR	KS:								
									10/28/2014
				UXO	QC Speci	alist	Richard Ricks		DATE
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and mater	of the contractor, I certify that this report is al used and work performed during this re awings and specifications to the best of m	porting pe	eriod is in o	compliance with the					
Topon.									
				QUALITY ASSURANCE R	EPORT		DATE		
QUALITY A	SSURANCE REPRESENTATIVE'S	REMAR	RKS AND	D/OR EXCEPTIONS TO THE REPORT					
				GOV	'ERNMEN	QUALITY ASSURANCE I	MANAGER		DATE

	CO		Report No. 50								
				CONTRACT: N62473-10-D-4009 T.O.			Date	10/29/2014			
PHASE	,	YES	NO —	IDENTIFY DEFINABLE FEATURE OF WO		OCATION AND LIST	PERSONNEL PRES	ENT			
	PLANS AND SPECS HAVE BEEN REVIEWED	✓		Definable feature/s of work (see continuation Done on 10/05/14	Done on 10/05/14						
	THE SUBMITTALS HAVE	~		Boile on 10/03/14							
≿	BEEN APPROVED.	ľ									
Ö	MATERIALS COMPLY WITH APPROVED SUBMITTALS	✓									
AT	MATERIALS STORED	~		1							
AR	PROPERLY.	ĭ									
PREPARATORY	PRELIMINARY WORK WAS DONE CORRECTLY.	√									
PR	TESTING PLAN HAS BEEN	V									
	REVIEWED. WORK METHOD AND] [
	SCHEDULE DISCUSSED.	\checkmark									
	JOB SAFETY / HAZARD	>									
	ANALYSIS ADDRESSED PRELIMINARY WORK WAS] [Done on 10/06/14		TEST	TING PERFORMED 8	k WHO			
	DONE CORRECTLY	✓		Test plot for Em61 and schonstedts was installed			PERFORMED TEST	Γ			
	SAMPLE HAS BEEN	/		All equipment wastested on test plot			ctors on site hav	re			
٩L	PREPARED/APPROVED WORKMANSHIP IS					been tested. schonstedts te	sted by Richard	Ricks			
INITIAL	SATISFACTORY	>				#254343 good					
	TEST RESULTS ARE ACCEPTABLE.	✓				#251272 good #240234 no go					
	WORK IS IN COMPLIANCE	~		1		#2 1020 1 110 gc	, ou				
	WITH THE CONTRACT.	Ů									
	WORK COMPLIES WITH SAFETY REQUIREMENTS	\checkmark									
	WORK COMPLIES WITH			Definable feature/s of work.		TEST	TING PERFORMED 8	k WHO			
	CONTRACT AS APPROVED	✓	Ш	Mag and dig points found by EM61.	ماين يا	C -1	PERFORMED TEST				
	INITIAL PHASE WORK COMPLIES WITH	V		Sweep areas scientists may use on the islar Schonstedts			ted each day at tes est's there own de				
,	SAFETY REQUIREMENTS	Ů									
鱼						#251272 Joel S	ivertsen				
۸-۱											
LOW-UP	Area Surface Swept. trails and high use areas			Area Sub-Surface Investigated: areas in which EM61 went and found							
	trans and mgn use areas			anomalies and trails if located by							
FO	NOTE:			Schonstedt							
		Schonstedt 240234 would not calm down or stop ringing off even after switching batteries									
	and the second of the second o										
	ITEMS IDENTIFIED TODAY (NOT C	ORRE	CTED BY	r e	EWORK ITEMS CORRECTED TODA	AY (FROM REWOR	RK ITEMS LIST)				
N/A				ľ	//A						
REMAR				•							
	Mag and dig the beach a ave changed due to high							10/29/2014			
LINIOTTI	ave onlanged due to mgn	liuco	0101	UXO QC Speci	alist F	Richard Ricks		DATE			
and mater	of the contractor, I certify that this report is ial used and work performed during this re	porting pe	eriod is in o	compliance with the							
report.	rawings and specifications to the best of m	y knowle	dge excep	: as noted in this							
	GOVE	RNI	/FNT	QUALITY ASSURANCE REPORT		DATE					
QUALITY A				D/OR EXCEPTIONS TO THE REPORT		·· · -					
					QUALITY ASSURANCE N	44414055		D T-			
		VIANAGER		DATE							



REWORK ITEMS LIST

Contract No. N62473-10-D-4009

Project Title: San Miguel Island UXO Investigation Location: San Miguel Island

NUMBER	DATE IDENTIFIED	DESCRIPTION	CONTRACT REQUIREMENT (Spec. Section and Par. No., Drawing No. and Detail No., etc.)	ACTION TAKEN BY QC MANAGER	RESOLUTION	DATE COMPLETED
1231	10/6/2014	EM61 needed more testing		had Mark Kick retest	test confirmed fully operational	10/7/2014
GPS BASE	10/13/2014	BASE GPS shut down		battery verified that was put on charger	BASE GPS fully operational	10/14/2014



EXHIBIT VII-1 TESTING PLAN AND LOG

CONTRACT NUMB	ER	PROJECT	TITLE: UX	O Investigation	SHAW E & I, INC.						
N62473-10-D-4009			LOCATIO			, , , , ,					
SPECIFICATION		ACCRI	ACCREDITED/								
SECTION			APPR	OVED			LOCA	TION		DATE	
AND	ITEM		L	AB			OF T	TEST		FORWARDED	
PARAGRAPH	OF						ON	OFF	DATE	то	
NUMBER	WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	SITE	SITE	COMPLETED	CONTR. OFF.	REMARKS
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/6/2014	10/13/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/7/2014	10/13/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/8/2014	10/13/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/9/2014	10/13/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/10/2014	10/13/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/13/2014	10/13/2014	
	Trail sweep	Plot test	X			Richard Ricks			10/14/2014	10/14/2014	
	Trail sweep	Plot test	X			Richard Ricks			10/15/2014	10/15/2014	
	Trail sweep	Plot test	X			Richard Ricks			10/16/2014	10/16/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/17/2014	10/17/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/20/2014	10/20/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/21/2014	10/21/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/22/2014	10/22/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/23/2014	10/23/2014	
	Trail sweep	Plot test	X			Richard Ricks			10/24/2014	10/24/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/27/2014	10/27/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/28/2014	10/28/2014	
	Trail sweep	Plot test	X		Mark Kick	Richard Ricks	X		10/29/2014	10/29/2014	
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