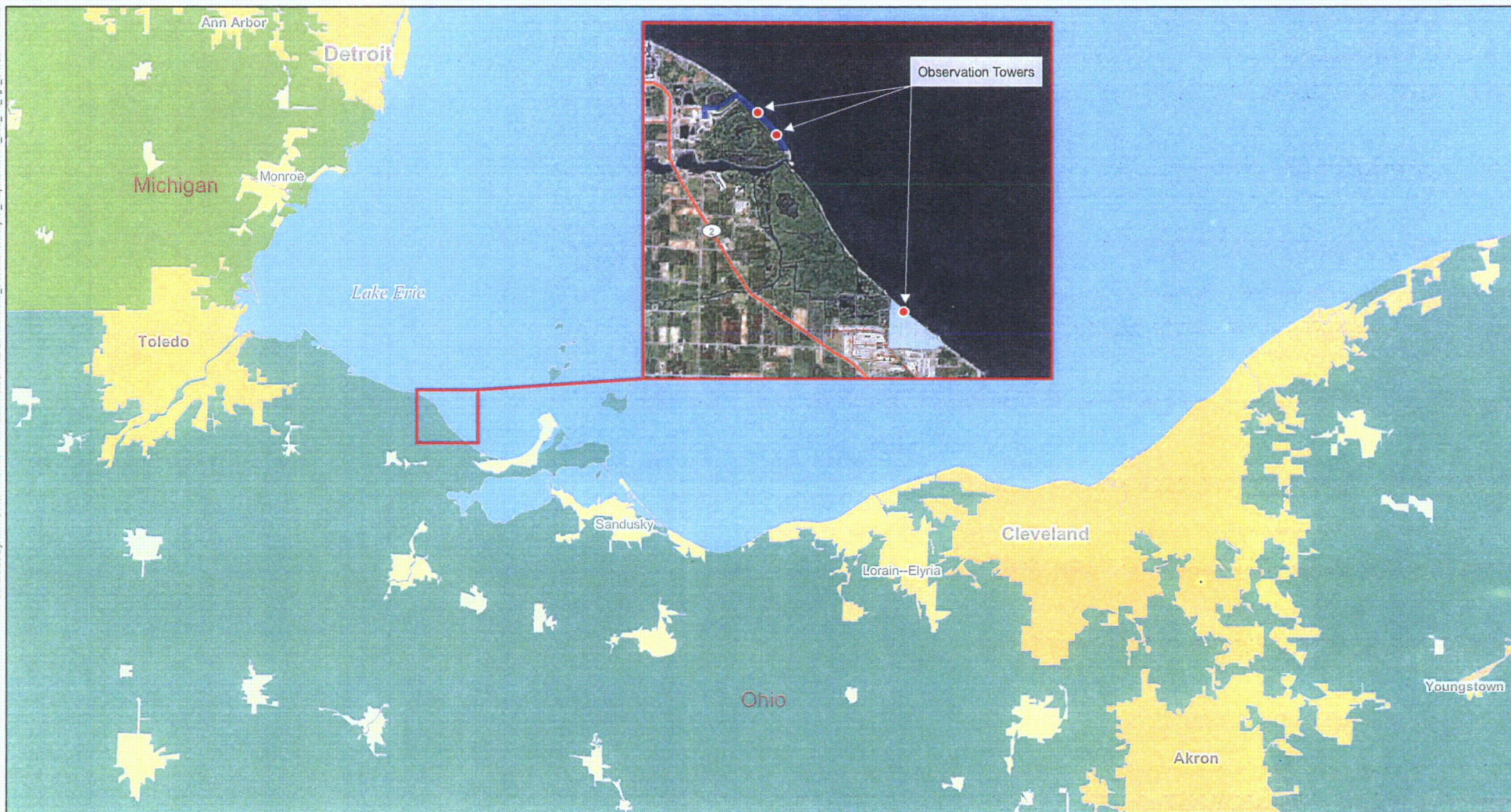


Appendix I

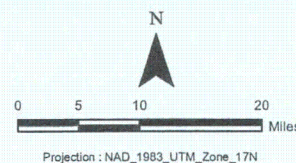
Figures, Maps, and Drawings References


1. Figure 1: Site Location Map
2. Figure 2: 1951 Aerial Photograph
3. Figure 3: 2005 Aerial Photograph
4. Figure 4: Parcel Ownership
5. Figure 5: Topographic Map
6. Figure 6: Regional Surface Water Drainage
7. Figure 7: Sensitive Receptor Locations
8. Figure 8: Locust Point AAAFA, Erie Army Depot, & Camp Perry Site Range Fans
9. Figure 9: Shoreline Regression
10. Figure 10: Littoral Drift
11. Figure 11: 1952 FDE USGS Topographic Map
12. Figure 12: Groundwater Well Locations within 4-Mile Radius
13. Figure 13: Census Data within 4-Mile Radius

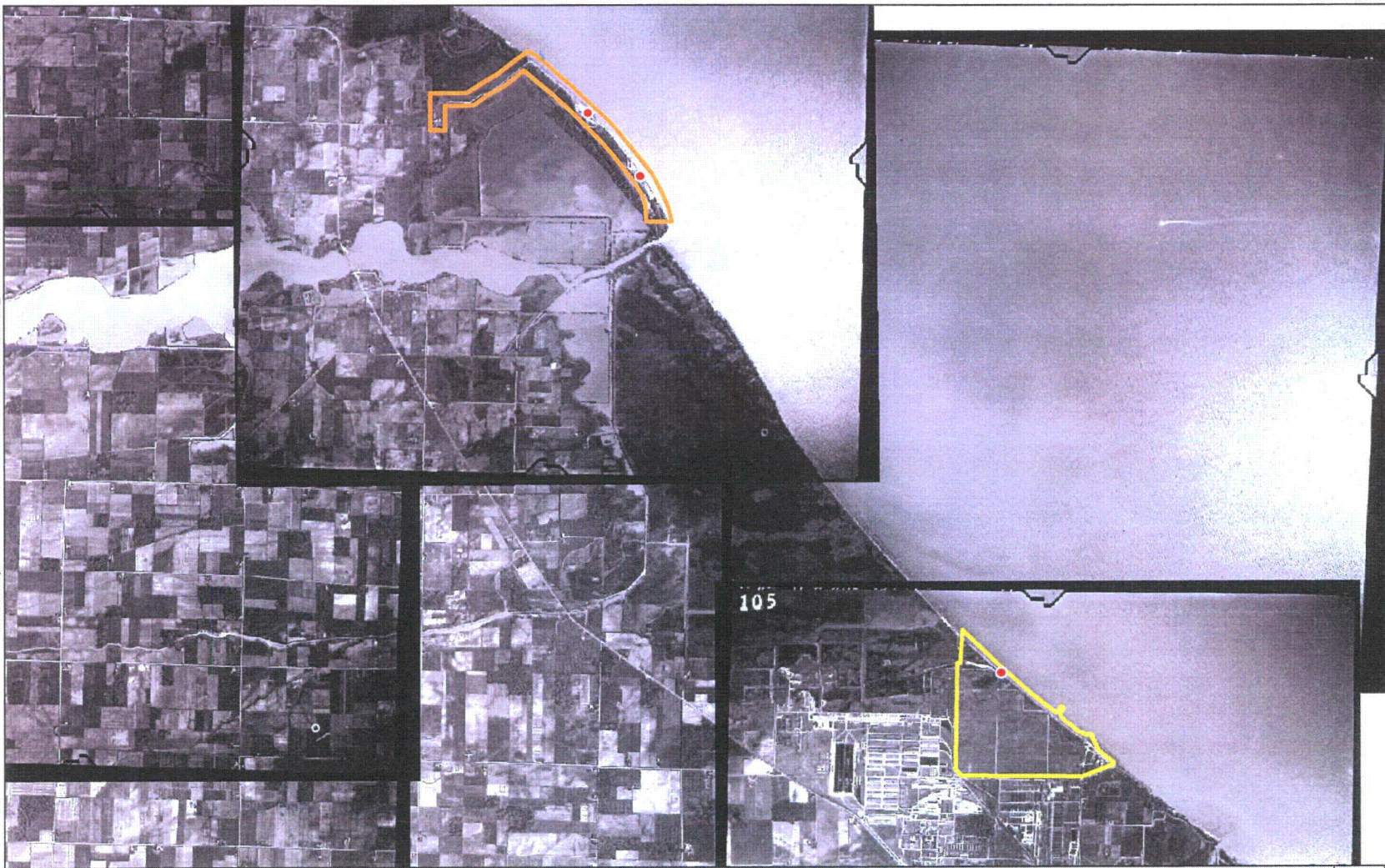


Legend

- FUDS Property
- Camp Perry
- Observation Tower



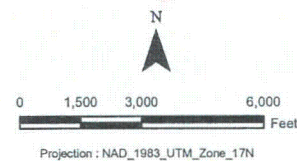
U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT	
MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 1	SITE LOCATION MAP LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G05OH0996
 Shaw Environmental & Infrastructure, Inc.	



Legend

- Observation Tower
- ▭ FUDS Property
- ▭ Camp Perry

Notes:
1) Aerial photographs were obtained from National Archives and are dated May 13, 1951.



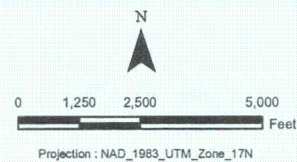
U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT	
MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 2	1951 AERIAL PHOTOGRAPH LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G050H0996
Shaw Environmental & Infrastructure, Inc.	




Legend

- Observation Tower
- FUDS Property
- Camp Perry
- - - Intermittent Stream
- Canal/Ditch
- Perennial Stream
- +— Railroad

Notes:
1) Aerial photograph (Ottawa County) was obtained from the U.S. Department of Agriculture, Service Center Agencies; photograph is from the USDA-APFO National Agriculture Imagery Program (NAIP), 2005.



U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT	
MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 3	2005 AERIAL PHOTOGRAPH LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G05OH0996
 Shaw Environmental & Infrastructure, Inc.	



Legend

- Observation Tower
- Intermittent Stream
- ▭ Taxlot Parcel
- Canal/Ditch
- ▭ FUDS Property
- Perennial Stream
- Railroad

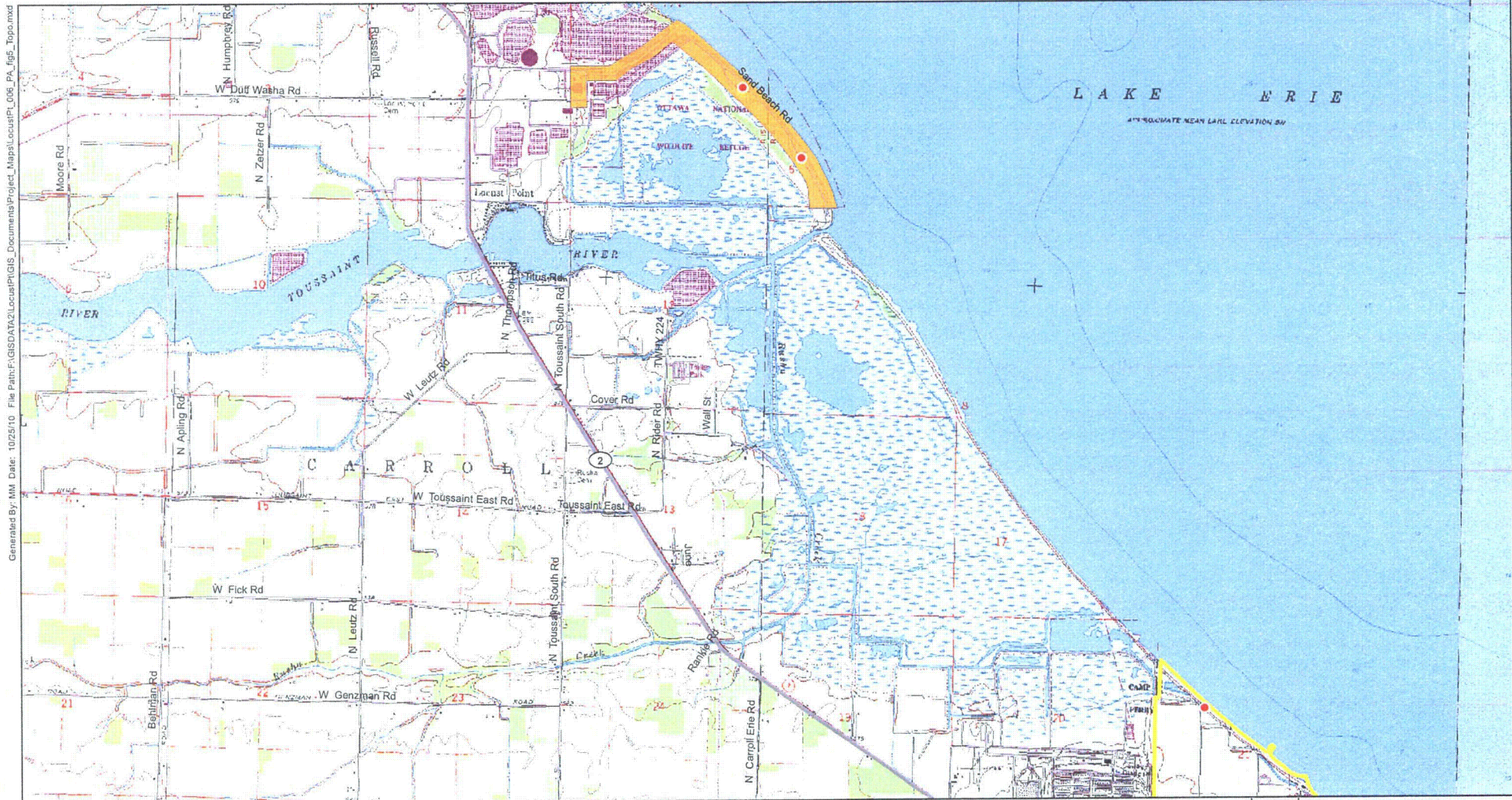
Notes:
1) Aerial photograph (Ottawa County) was obtained from the U.S. Department of Agriculture, Service Center Agencies; photograph is from the USDA-APFO National Agriculture Imagery Program (NAIP), 2005.



Projection : NAD_1983_UTM_Zone_17N



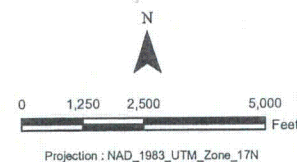
U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT	
MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 4	PARCEL OWNERSHIP LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G050H0995
Shaw Environmental & Infrastructure, Inc.	



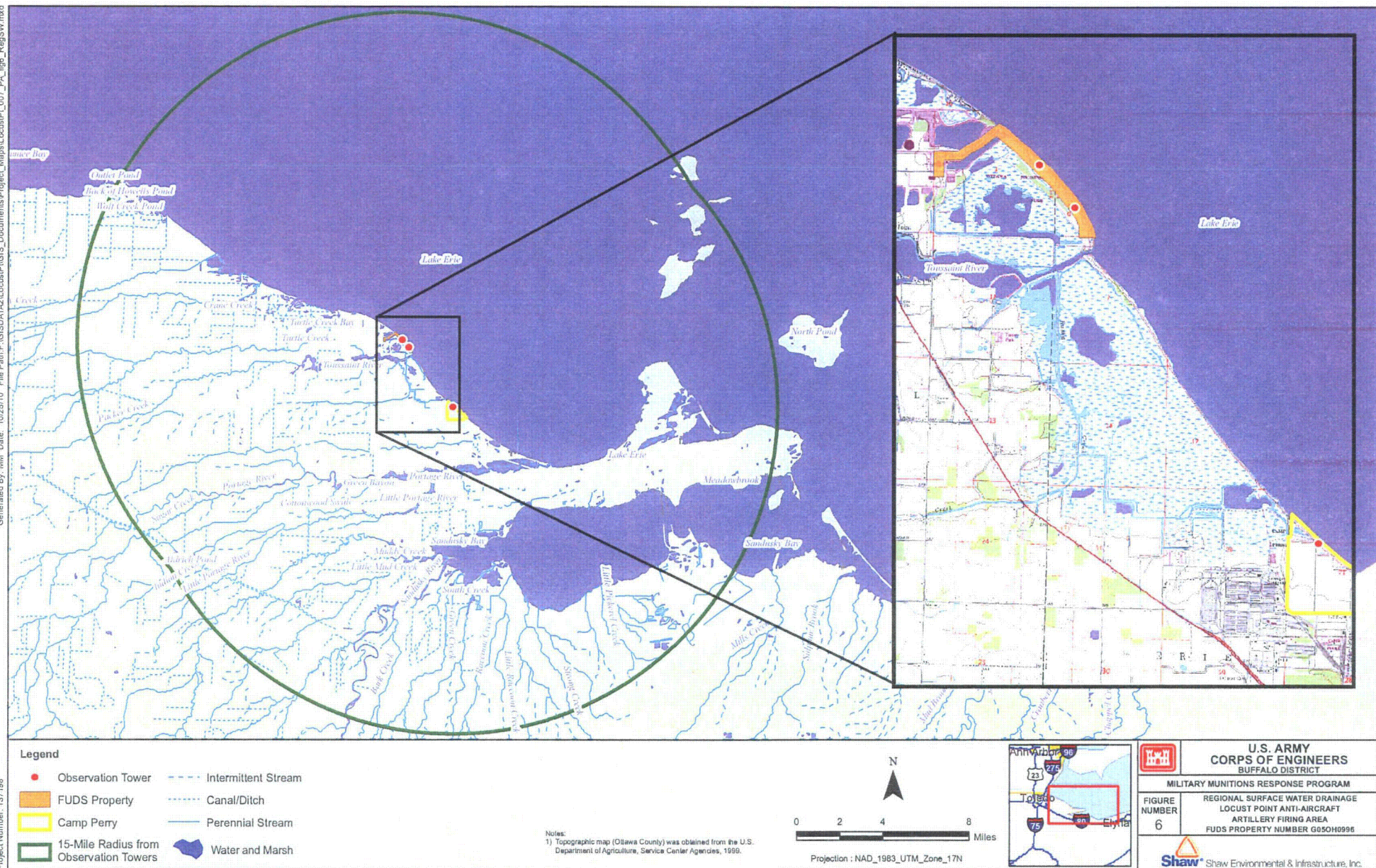
Project Number: 137198

- Legend**
- Observation Tower
 - FUDS Property
 - Camp Perry

Notes:
1) Topographic map (Ottawa County) was obtained from the U.S. Department of Agriculture, Service Center Agencies, 1999.



U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 5	TOPOGRAPHIC MAP LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G050H0996
Shaw Environmental & Infrastructure, Inc.	

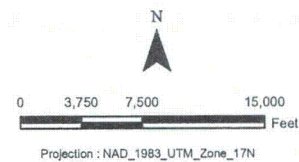




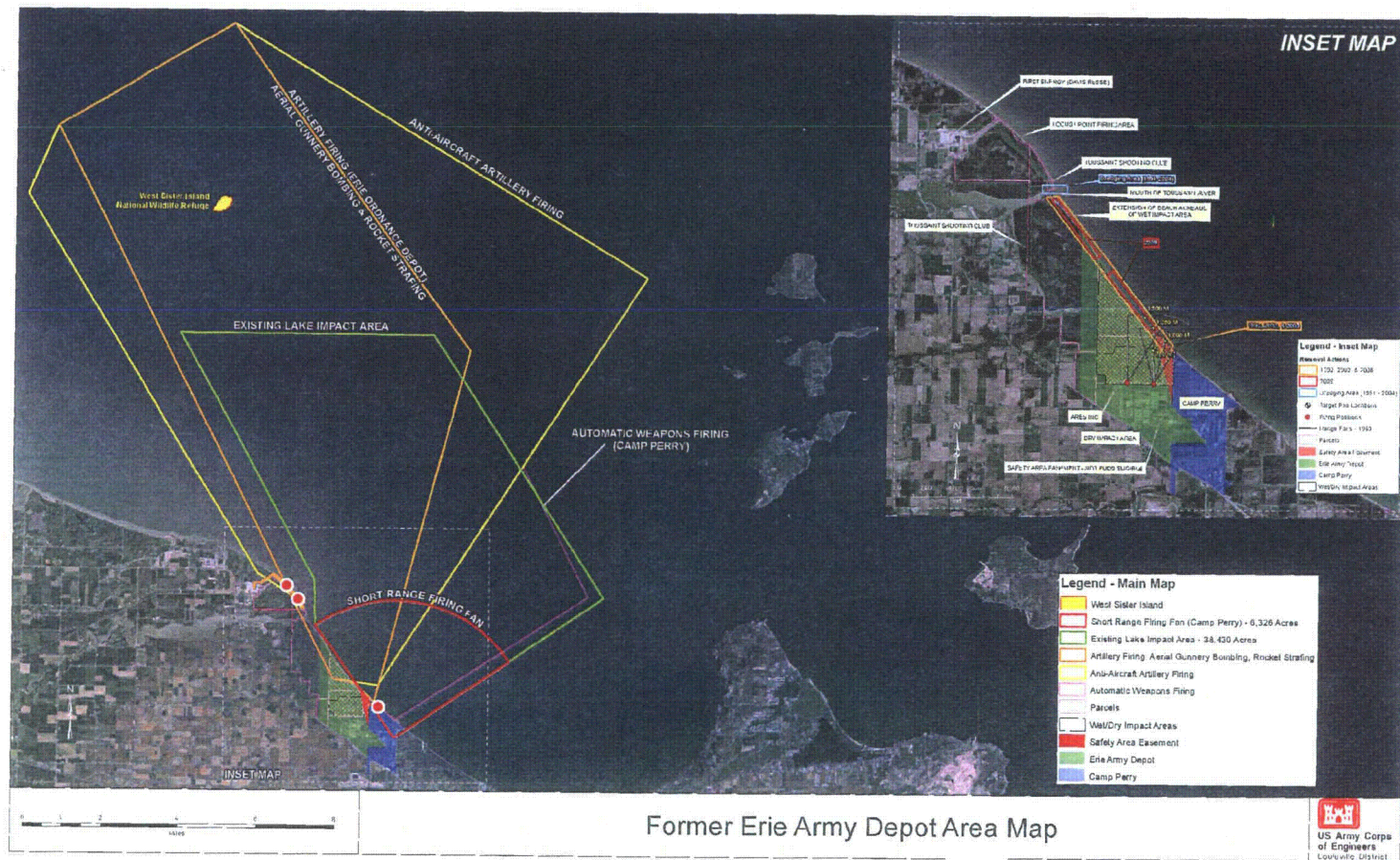
Legend

- | | | | | | |
|--|------------------------------------|--|-------------------|--|----------|
| | FUDS | | Observation Tower | | Hospital |
| | 4-Mile Buffer | | Airport | | Park |
| | National Wetlands Inventory Areas | | Church | | School |
| | Fish and Wildlife Service Property | | | | |

Notes:
 1) Topographic map (Ottawa County) was obtained from the U.S. Department of Agriculture, Service Center Agencies, 1969.
 2) Wetland polygons were downloaded from the U.S. Fish and Wildlife National Wetlands Inventory website (www.fws.gov/wetlands/).



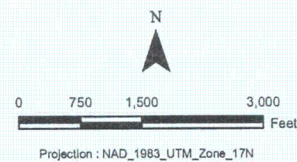
<p>U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT</p>	
<p>MILITARY MUNITIONS RESPONSE PROGRAM</p>	
<p>FIGURE NUMBER</p> <p>7</p>	<p>SENSITIVE RECEPTOR LOCATIONS LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G05OH0996</p>
<p> Shaw Environmental & Infrastructure, Inc.</p>	





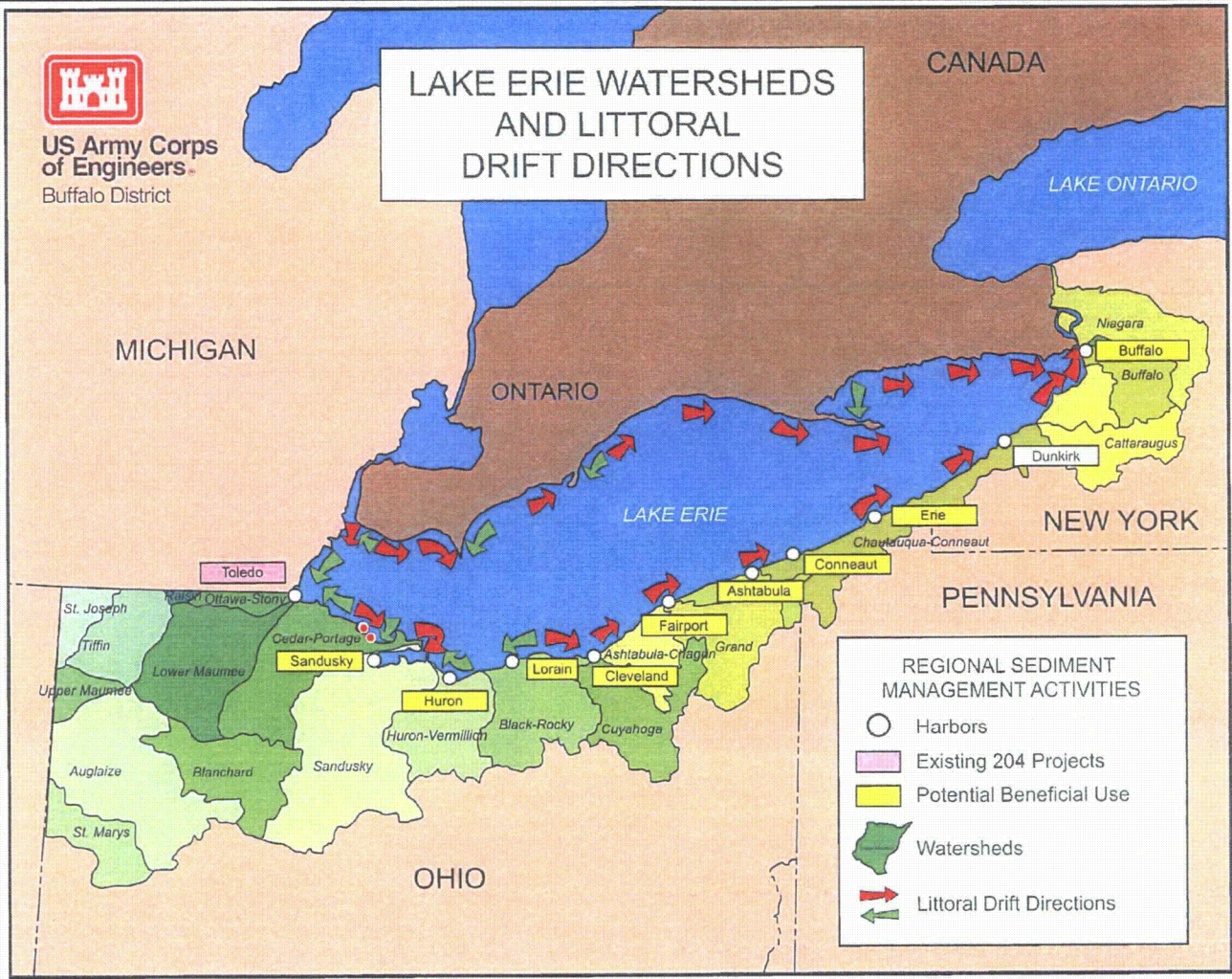
- Legend**
- Observation Tower
 - FUDS Property
- Shoreline Level:**
- 1870's
 - 1973
 - 1990
 - 2004

Notes:
1) Aerial photograph (Ottawa County) was obtained from the U.S. Department of Agriculture, Service Center Agencies; photograph is from the USDA-APFO National Agriculture Imagery Program (NAIP), 2005.



MILITARY MUNITIONS RESPONSE PROGRAM	
SHORELINE REGRESSION	
LOCUST POINT ANTI-AIRCRAFT	
ARTILLERY FIRING AREA	
FUDS PROPERTY NUMBER G050H0996	
FIGURE NUMBER 9	Shaw Environmental & Infrastructure, Inc.

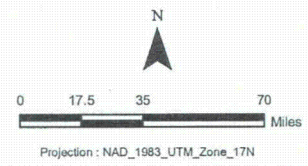
Generated By: MM Date: 11/03/10 File Path: F:\GISDATA\Locust\Project_Maps\LocustPt_034_PA_fig10_LittoralDrift.mxd



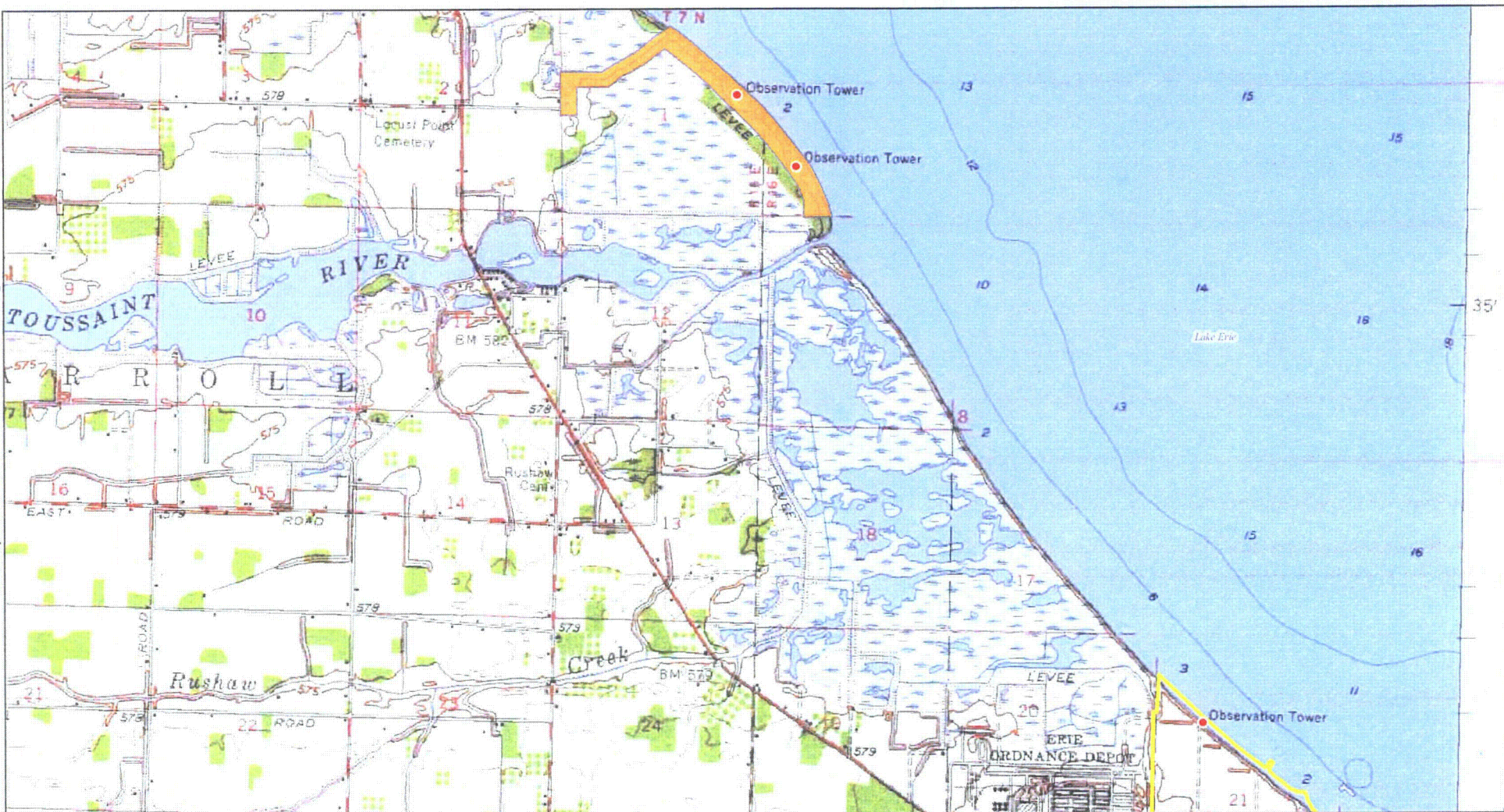
Project Number: 137186

Legend

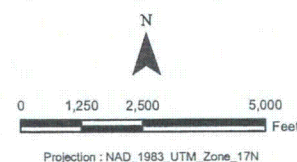
- Observation Tower
- FUDS Property



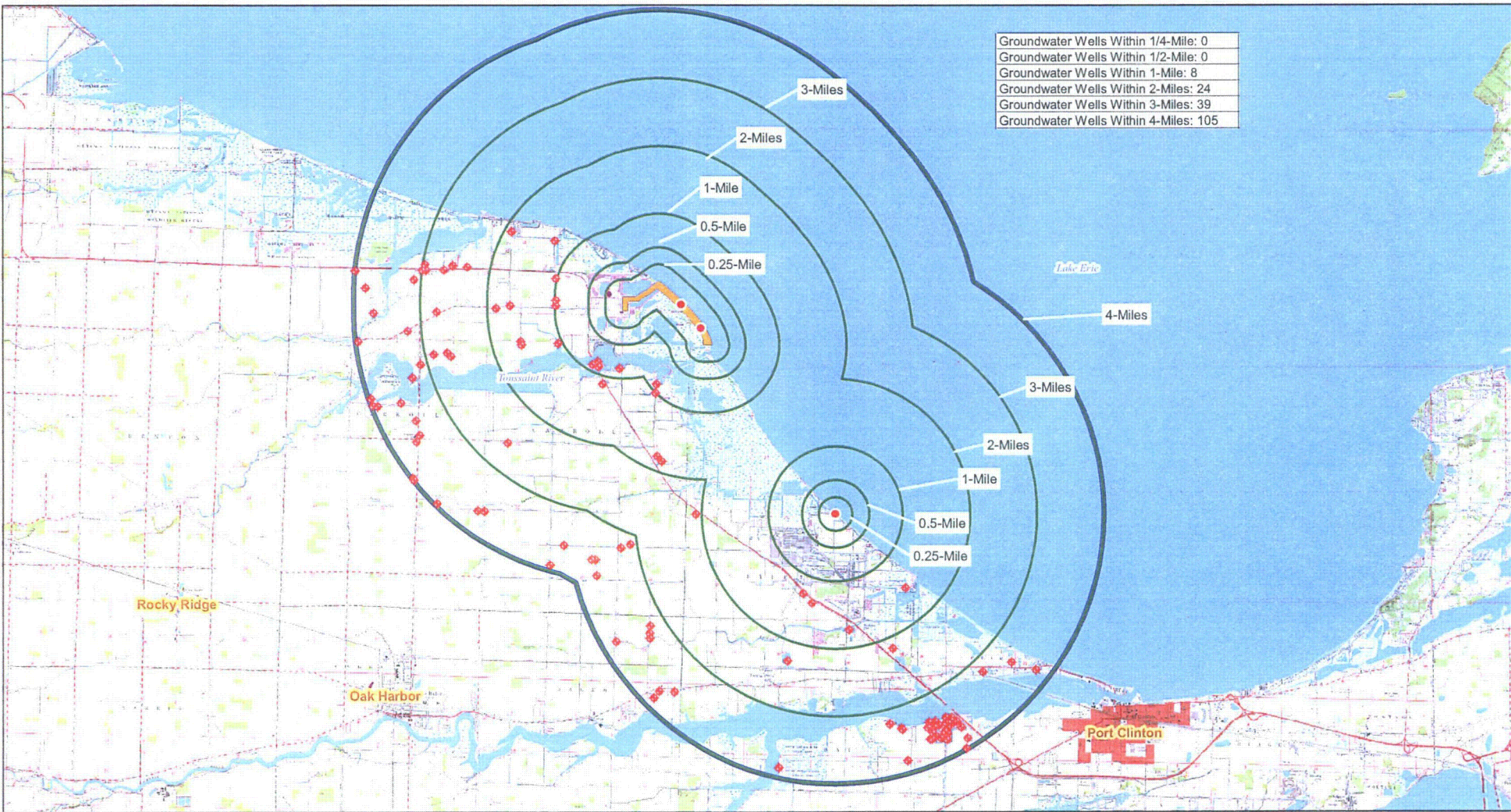
 U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT	
MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 10	LITTORAL DRIFT LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G05OH0996
 Shaw Environmental & Infrastructure, Inc.	



- Legend**
- Observation Tower
 - FUDS Property
 - Camp Perry



U.S. ARMY CORPS OF ENGINEERS BUFFALO DISTRICT	
MILITARY MUNITIONS RESPONSE PROGRAM	
FIGURE NUMBER 11	1952 FDE USGS TOPOGRAPHIC MAP LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G050H0996
Shaw Environmental & Infrastructure, Inc.	



Legend

- FUDS
- 4-Mile Buffer
- Observation Tower
- Groundwater Well

Notes:
1) Topographic map (Ottawa County) was obtained from the U.S. Department of Agriculture, Service Center Agencies, 1999.

0 3,750 7,500 15,000 Feet

Projection: NAD_1983_UTM_Zone_17N

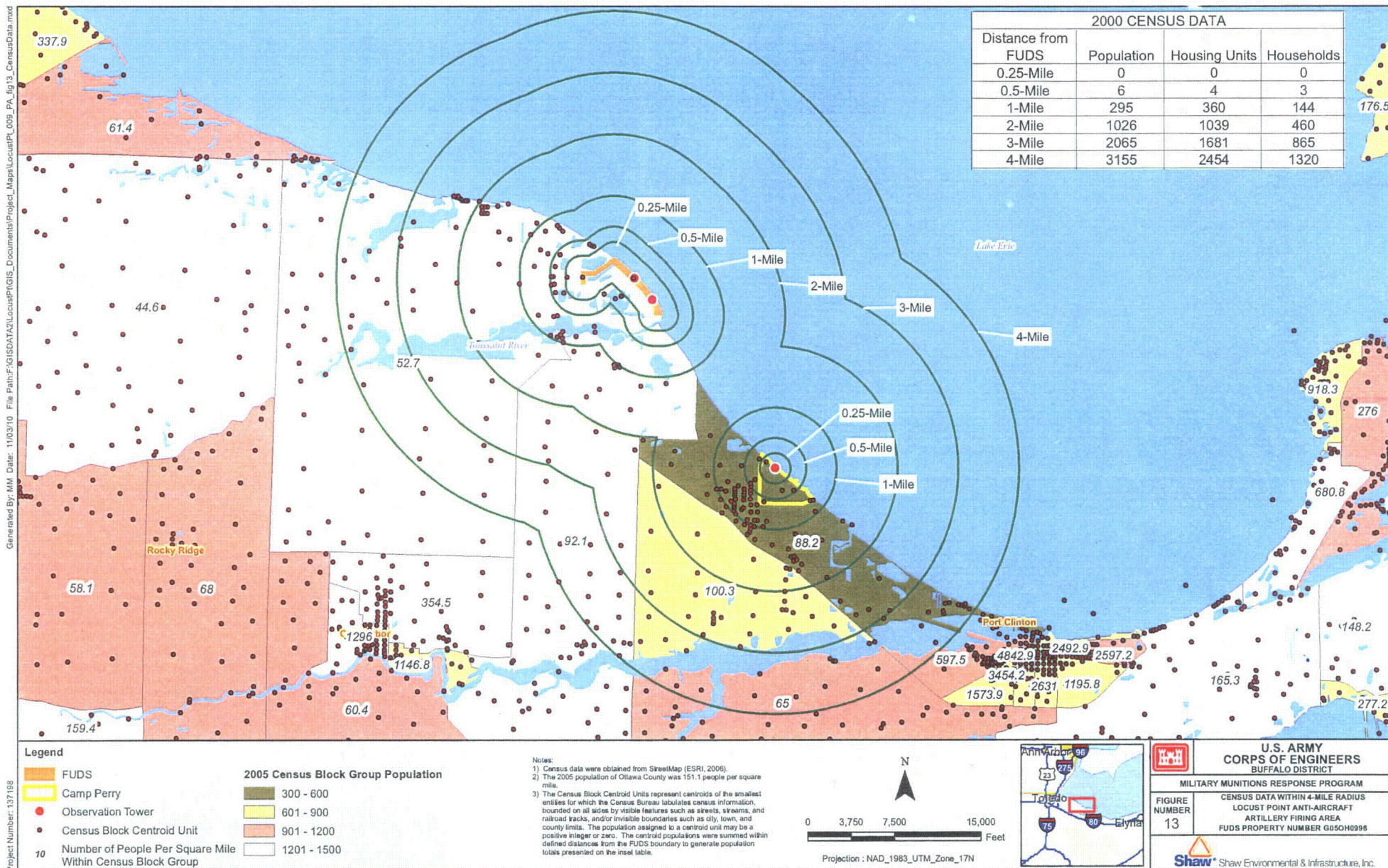
**U.S. ARMY
CORPS OF ENGINEERS
BUFFALO DISTRICT**

MILITARY MUNITIONS RESPONSE PROGRAM

FIGURE NUMBER 12

GROUNDWATER WELL LOCATIONS WITHIN 4-MILE RADIUS LOCUST POINT ANTI-AIRCRAFT ARTILLERY FIRING AREA FUDS PROPERTY NUMBER G05OH0006

Shaw Shaw Environmental & Infrastructure, Inc.



Appendix J

Interviews

1. Stakeholder Interviews
2. Public Notice

1. Stakeholder Interviews



Shaw Environmental & Infrastructure, Inc.

RECORD OF		<input checked="" type="checkbox"/> TELECON		
		<input type="checkbox"/> MEETING		
Project Name	Number	Phase	Task	Subtask
LOCEST POINT AAAFA	137198			

Date: 21 Jan 2010	Time: 1140	CALL FROM <input checked="" type="checkbox"/> NAME: Paul McCORREN			
Other Participants - Name / Location / Representing P. McCORREN J. TRUMBLE		CALL TO <input type="checkbox"/> NAME: JAY TRUMBLE			
		Telephone Number: 502-315-6349			
		Company Name: USACE CRL			
Topic: LOCEST POINT AAAFA	Address:				
	City: Louisville	State: KY Zip Code:			
Summary (Decisions & Specific Actions Required by Named Persons):					
<p>Called J. Trumble to discuss LOCEST POINT AAAFA and what historical documents CRL may have for the property. Jay said that information and documents pertaining to LOCEST POINT AAAFA was primarily in the ASB gave for ECIS Army depot and that he was not aware of documents specific to LOCEST POINT AAAFA. He will look up what CRL has again and get back to me.</p>					
<p>25 Jan 2010 - J. Trumble called to say that he had reviewed CRL documents files and</p>					
Required Action(s):					
<table border="1"> <tr> <td> DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/> </td> <td>Other DISTRIBUTION (by Preparer):</td> <td> Prepared by (Signature): Prepared by (Printed): Paul McCORREN </td> </tr> </table>			DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>	Other DISTRIBUTION (by Preparer):	Prepared by (Signature): Prepared by (Printed): Paul McCORREN
DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>	Other DISTRIBUTION (by Preparer):	Prepared by (Signature): Prepared by (Printed): Paul McCORREN			

Page 1 of 1



Shaw Environmental & Infrastructure, Inc.

RECORD OF

☒ TELECON

☐ MEETING

Project Name

Number

Phase

Task

Subtask

Coast Point AAFA

137198

Date:

01 Feb 2010

Time:

0930

CALL FROM

☒

NAME:

CALL TO

☐

NAME:

B. I. McGee

Other Participants - Name / Location / Representing

CALL FROM

☐

NAME:

CALL TO

☒

NAME:

IDA RPP Public Library

Telephone Number:

Company Name:

IDA RPP Public Library

Topic:

Coast Point AAFA

Address:

City:

Port Clinton

State:

OH

Zip Code:

Summary (Decisions & Specific Actions Required by Named Persons):

Called library concerning information pertaining to Coast Point AAFA. Librarian said she would do a search and call me back.

Required Action(s):

DISTRIBUTION:

- ☒ Original to Project File
- ☐ Copy to Project Manager
- ☐ Copy to Preparer
- ☐

Other DISTRIBUTION (by Preparer):

Prepared by (Signature):

B. I. McGee

Prepared by (Printed):

B. I. McGee

Page 1 of 1



Shaw Environmental & Infrastructure, Inc.

RECORD OF		<input checked="" type="checkbox"/> TELECON		
		<input type="checkbox"/> MEETING		
Project Name	Number	Phase	Task	Subtask
Locust Point AAFA	07198			

Date: 01 FEB 2010	Time: 0700	CALL FROM <input checked="" type="checkbox"/> NAME: Paul McCullen
Other Participants - Name / Location / Representing	CALL TO <input type="checkbox"/>	CALL FROM <input type="checkbox"/> NAME:
	CALL TO <input checked="" type="checkbox"/>	CALL TO <input checked="" type="checkbox"/> Oak Harbor Public Library
	Telephone Number: 419-898-7001	
	Company Name:	
Topic: Locust Point AAFA	Address:	
	City: Oak Harbor	State: OH Zip Code:

Summary (Decisions & Specific Actions Required by Named Persons):

Called library @ information pertaining to Locust Point AAFA
They directed me to NWHL: oakharborpubliclibrary.org

Required Action(s):

DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>	Other DISTRIBUTION (by Preparer):	Prepared by (Signature): Prepared by (Printed): Paul McCullen
		Page 1 of 1



Shaw Shaw Environmental & Infrastructure, Inc.

RECORD OF				
<input checked="" type="checkbox"/> TELECON				
<input type="checkbox"/> MEETING				
Project Name	Number	Phase	Task	Subtask
Locust Point AAFA	137178			

Date: 24 March 2010	Time: 10:50	CALL FROM <input checked="" type="checkbox"/> NAME: CALL TO <input type="checkbox"/> NAME: P. McCLELLAN
Other Participants - Name / Location / Representing P. McCLELLAN R. BRATTON		CALL FROM <input type="checkbox"/> NAME: CALL TO <input checked="" type="checkbox"/> NAME: ROBERT BRATTON
		Telephone Number: 419-734-4404
		Company Name: OTTAWA COUNTY SHERIFF
Topic: Locust Point AAFA		Address:
		City: PORT CLINTON
		State: OH
		Zip Code:

Summary (Decisions & Specific Actions Required by Named Persons):

Called Sheriff Bratton to discuss Locust Point AAFA and whether the Sheriff's office had ever responded to any calls at the property. He said that to his knowledge the Sheriff's office had never responded to any calls at the property and in particular he did not recall any issues regarding UKO at the property.

Required Action(s):

DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>	Other DISTRIBUTION (by Preparer):	Prepared by (Signature): Paul G. McClellan
		Prepared by (Printed): Paul McClellan
		Page 1 of 1



Shaw Environmental & Infrastructure, Inc.

RECORD OF

☒ TELECON

☐ MEETING

Project Name

Number

Phase

Task

Subtask

Locust Point AAAAA

177196

Date:

06 April 2010

Time:

1415

CALL FROM

☒

NAME:

Paul McCarran

CALL TO

☐

NAME:

OWEN THOMPSON

CALL FROM

☐

NAME:

OWEN THOMPSON

CALL TO

☒

NAME:

OWEN THOMPSON

Telephone Number:

312-286-4843

Company Name:

USEPA REGION 5

Topic:

Locust Point AAAAA

Address:

City:

Chicago

State:

IL

Zip Code:

Summary (Decisions & Specific Actions Required by Named Persons):

Called O. Thompson to discuss Locust Point AAAAA and what information USEPA Region 5 may have for the FUDS. Paul McCarran USEPA Region 5 has not information pertaining to Locust Point AAAAA. Also he said that due to cuts in Dismal Funds Region 5 would not be participating in 2 stakeholders.

Required Action(s):

DISTRIBUTION:

☒ Original to Project File

☐ Copy to Project Manager

☐ Copy to Preparer

☐

Other DISTRIBUTION (by Preparer):

Prepared by (Signature):

Paul McCarran

Prepared by (Printed):

Paul McCarran

Page 1 of 1

RECORD OF TELECONFERENCE

PROJECT NAME: Locus Point AAAFA

DATE: April 6, 2010

TIME: 0935

CALL FROM: Nicole Lewis Sojda

CALL TO: Roger Knight

COMPANY NAME: Supervisor of Lake Erie Fisheries Program, Department of Natrual Resources

TELEPHONE NUMBER: (419) 625-8062

EMAIL: Roger.knight@dnr.state.oh.us

SUMMARY: I spoke with Roger Knight from the Department of Natrual Resources, Supervisor of Lake Erie Fisheries Program. I explained the type of work we would be doing at Locust Point and asked if there were any restrictions due to the shorebird activity along Lake Erie. He said there would be no restrictions for the types of activities we would be involved in and no specific time of year to avoid the shoreline. He said that at this time, due to the nature of our activities, his office would not be interested in getting involved. He did however say if the nature of the activities changed in the future to please contact his office again.



Shaw Environmental & Infrastructure, Inc.

RECORD OF				
<input checked="" type="checkbox"/> TELECON				
<input type="checkbox"/> MEETING				
Project Name	Number	Phase	Task	Subtask
Levee Point AAFA	13791B			

Date: 13 April 2010	Time: 0930	CALL FROM <input checked="" type="checkbox"/> NAME: CALL TO <input type="checkbox"/> Paul McCaffrey
Other Participants - Name / Location / Representing		CALL FROM <input type="checkbox"/> NAME: CALL TO <input checked="" type="checkbox"/> DISPATCH
		Telephone Number: 419-898-9621
		Company Name: Correll Township Fire Dept
Topic: Levee Point AAFA		Address:
		City: Oak Harbor

Summary (Decisions & Specific Actions Required by Named Persons):

Called Correll Township Fire Dept to inquire as to whether the FD had ever responded to a call from the Levee Point AAFA fire property - she said she would check with fire chief John Brough and call me back

14 April 2010 @ 1000 HRS

John Brough, Correll Township FD Chief, called @ Levee Point AAFA and said that to his knowledge the FD has not responded to any issues at the Levee Point AAFA property and he isn't aware of any issues regarding LKO except for the incident @ Davis Reside

Required Action(s):

DISTRIBUTION:	Other DISTRIBUTION (by Preparer):	Prepared by (Signature): Paul McCaffrey
<input checked="" type="checkbox"/> Original to Project File		Prepared by (Printed): Paul McCaffrey
<input type="checkbox"/> Copy to Project Manager		
<input type="checkbox"/> Copy to Preparer		
<input type="checkbox"/>		

Page 1 of 1

RECORD OF TELECONFERENCE

PROJECT NAME: Locus Point AAFA

DATE: April 27, 2010

TIME: 1305

CALL FROM: Nicole Lewis Sojda

CALL TO: Ron Huffman – Navar Marsh Biologist

COMPANY NAME: U.S. Fish and Wildlife Services

TELEPHONE NUMBER: (419) 898-0014 ext. 28

EMAIL: Ottawa@fws.gov

SUMMARY: I spoke with Ron Huffman the Biologist for the Navar Marsh with the U.S. Fish and Wildlife Services. I explained the type of work we would be doing at Locust Point and asked if there were any restrictions due to the fish and shorebird activity along Lake Erie. He said there would be no restrictions for the types of activities we would be conducting.



Shaw Environmental & Infrastructure, Inc.

RECORD OF ☒ TELECON ☐ MEETING

Project Name	Number	Phase	Task	Subtask
LOUPT POINT AAAFA	137198			

Date: 28 APR 2010	Time: 0900	CALL FROM <input checked="" type="checkbox"/> NAME: Paul McCaREEN
Other Participants - Name / Location / Representing P. McCaREEN LT. Mathalchuck		CALL TO <input type="checkbox"/> NAME: LT. Jay Mathalchuck
		Telephone Number: 419-418-6023
		Company Name: US Coast Guard
Topic: LOUPT POINT AAAFA		Address:
		City: Toledo State: OH Zip Code:

Summary (Decisions & Specific Actions Required by Named Persons):

Call LT Mathalchuck regarding LOUPT POINT AAAFA and to REQUEST USCG to be a stakeholder for the PA. Pk LT Mathalchuck has no jurisdiction regarding the FUDS but he's not aware of any issues regarding LOUPT POINT or the USCG has been involved with.

Required Action(s):

DISTRIBUTION:

- ☒ Original to Project File
- ☐ Copy to Project Manager
- ☐ Copy to Preparer
- ☐

Other DISTRIBUTION (by Preparer):

Prepared by (Signature):

[Signature]

Prepared by (Printed):

12/1/06

Page 1 of 1

RECORD OF MEETING

PROJECT NAME: Locus Point AAAFA

DATE: May 6, 2010

TIME: 1410

INTERVIEWER: Nicole Lewis Sojda

INTERVIEWEE: Julie Shieldcastle

COMPANY NAME: Black Swamp Bird Observatory

TELEPHONE NUMBER: (419) 898-4070

EMAIL: julieshieldcastle@bsbo.org

SUMMARY: I spoke with Julie Shieldcastle with the Black Swamp Bird Observatory. They work with USFWS and have access to most areas of the site. She said her and a variety of other volunteers from the BSBO are out on site bird banding/mist netting several times a month. There were eight volunteers with her while we met. According to her they have never come across anything other than pieces of concrete which would indicate prior military use of the property. She was unaware that the military had ever even operated on the property. She was given contact information for Shaw as well as the USACE in case they had any questions. She would like to be contacted if they hold another stakeholder meeting.

RECORD OF MEETING

PROJECT NAME: Locus Point AAAFA

DATE: May 6, 2010

TIME: 1540

INTERVIEWER: Nicole Lewis Sojda

INTERVIEWEE: Frank and Ralph

COMPANY NAME: Sand Beach Residents

SUMMARY: We spoke with Frank and Ralph, residents of Sand Beach Resort which is the private community that borders the property to the northeast. They had lived at their property for the last 40 years and were unaware of any incident at the property that was not related specifically to Davis-Besse operations. They gave us contact information for the Home Owners Association President (listed below) and directed us to the home of the Home Owners Association Vice President Peggy Karhoff.

Sand Beach Home Owners Association President

Chris Allman

(734) 874-4374

chrisallman@verizon.net

RECORD OF MEETING

PROJECT NAME: Locus Point AAAFA

DATE: May 6, 2010

TIME: 1600

INTERVIEWER: Nicole Lewis Sojda

INTERVIEWEE: Peggy Karhoff

COMPANY NAME: Sand Beach Home Owners Association Vice President

TELEPHONE NUMBER: (419) 898-6223/(419) 828-6223

EMAIL: Pidge812@roadrunner.com

SUMMARY: We spoke with Peggy Karhoff, the VP of the Sand Beach Resort which is the private community that borders the property to the northeast. She was unaware that the military had ever even operated at Locust Point. She was unaware of any incident at the property that was not related specifically to Davis-Besse operations. She was given contact information for Shaw as well as the USACE in case she had any questions.

RECORD OF TELECONFERENCE

PROJECT NAME: Locus Point AAAFA

DATE: August 12, 2010

TIME: 1235

CALL TO: Nicole Lewis Sojda

CALL FROM: Sergeant 1st Class Joshua Mann

COMPANY NAME: Ohio National Guard Historian

TELEPHONE NUMBER: (614) 336-7311

SUMMARY: Sgt. 1st class Joshua Mann returned several messages I had left him over the past six months. I told him we were looking for any information about the AAA activities at Locust Point AAAFA but specifically we were trying to verify the presence of a third observation tower on Camp Perry property. He said he did not believe that the observation tower on Camp Perry property was ever used for AAA activities and that he would check into his records. He said it was possible that a small portion of the AAA activities could have been seen by someone in the observation tower at Camp Perry but it was very unlikely that it was associated with those activities. He is going to be out of town for the next two weeks but could get me the information when he got back to his office.

FOLLOW UP: 8/30/10 @ 3:20pm: Spoke with Sgt. Man. He has been unable to locate any information that we don't have access to pertaining to Locust Point. He cannot find any documents referencing the three observation points. He has a few more sources to check and will send me a summary email by the end of the week (9/3/10).

From: [Mann, Joshua D SFC MIL NG OHARNG](#)
To: [Sojda, Nicole L](#)
Subject: Erie Proving Grounds
Date: Wednesday, September 15, 2010 9:00:21 AM

Nicole,
Searched everything I had on Camp Perry and the EPG and couldn't find any additional information for your request.

Please let me know if you need anything else.

SFC Joshua Mann
Historian
Ohio Army National Guard
614-336-7311
joshua.mann@us.army.mil

THIS WEEK IN OHIO ARMY NATIONAL GUARD HISTORY:


14 September 1955: The 135th Military Police Company (Chagrin Falls) was organized at Chardon as Battery C, 179th Anti-Aircraft Artillery Battalion.

15 September 1986: The 637th Chemical Company (Kettering) was constituted as the 641st Quartermaster Detachment.



Shaw Environmental & Infrastructure, Inc.

RECORD OF ☒ TELECON
☐ MEETING

Project Name		Number		Cost Code / Phase-Task-Subtask	
Locust Point AAAFA		137198			
Date: 25 October 2010	Time: 1800	Call With <input checked="" type="checkbox"/>	NAME: Colonel Dean Brown, OHANG, Commander Camp Perry		
Other Participants – Name / Location / Representing None		SHAW <input checked="" type="checkbox"/>	NAME: Paul McCarren		
		Telephone Number: 614-257-8891			
		Company Name: NA			
Topic: Locust Point AAAFA		Address: Camp Perry			
		City: Port Clinton	State: OH	Zip Code: 43452	
Summary (Decisions & Specific Actions Required by Named Persons): Paul McCarren, after being authorized by the USACE Buffalo District, called Colonel Dean Brown, Ohio Army National Guard, Commander Camp Perry regarding anti-aircraft artillery training conducted at Camp Perry. Col. Brown directed P. McCarren to contact Chief Warrant Officer Dave Rohrbacher at Camp Perry. He said that CWO Rohrbacher had been at Camp Perry as long as he has and he would be helpful in gathering the information requested.					
Required Action(s): Make contact CWO Rohrbacher at Camp Perry					
DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>		Other DISTRIBUTION (by Preparer): Mick Senus, LRB Sheila Hint, LRB		Prepared by (Signature): 	
				Prepared by (Printed): Paul McCarren	

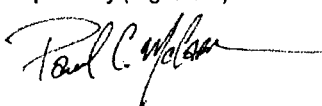
Page 1 of 1



Shaw® Shaw Environmental & Infrastructure, Inc.

RECORD OF

☐ TELECON☒ MEETING

Project Name		Number		Cost Code / Phase-Task-Subtask	
Locust Point AAAFA		137198			
Date: 26 October 2010	Time: 0900-1200	MEETING With <input checked="" type="checkbox"/> NAME: Chief Warrant Officer, Dave Rohrbacher			
Other Participants – Name / Location / Representing None		SHAW <input checked="" type="checkbox"/> NAME: Paul McCarren			
		Telephone Number:			
		Company Name:			
Topic: 3 rd firing point associated with Locust Point AAAFA		Address:			
		City: Port Clinton	State: OH	Zip Code: 43452	
Summary (Decisions & Specific Actions Required by Named Persons): Met with Chief Warrant Officer (CWO) Dave Rohrbacher of the Ohio Army National Guard. Discussed with CWO Rohrbacher whether he was aware of an anti-aircraft artillery firing point on Camp Perry property associated with training conducted at Locust Point. Following is a summary of information provided by CWO Rohrbacher: <ul style="list-style-type: none">• Per CWO Rohrbacher he was not aware of AAA firing being conducted during the time period of 1953 to 1963.• Remote control aerial targets (RCAT) were launched from Camp Perry• The 3rd point/observation tower identified on the 1952 USGS topographic map and identified in the ASR as being a 3rd AAA firing point was actually a short guard tower. Originally the tower was used for range activities at Camp Perry. During WWII Camp Perry was used to house German and Italian POWs and the tower was used as a guard tower. After the end of WWII, after the POW had been removed from Camp Perry, the tower was torn down because it interfered with range activities. A replacement observation tower was erected ~200 yards from the location of the 1st tower. This tower was in turn torn down ~ 15 years ago and 3rd observation tower was erected.• CWO Rohrbacher took P. McCarren to the location of the former observation tower and the launch site for the RCATs. Two concrete footers were observed at the location of the former observation tower. The launch pole and weathered concrete from the launch ring were observed.• CWO Rohrbacher said that since the end of WWII the area where the former observation tower was has been the back-stop berm for the 1,000 yard small arms range. To the east are a 800 yard range, a 600 yard range, and a 100 yard range.• CWO Rohrbacher gave P. McCarren contact information for Mr. Joe Gall, former contracting officer for Camp Perry and Erie Army Depot.					
Required Action(s): Call Joe Gall – (419) 734-2052					
DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>		Other DISTRIBUTION (by Preparer): Mick Senus, LRB Sheila Hint, LRB		Prepared by (Signature): 	
				Prepared by (Printed): Paul McCarren	

Page 1 of 1

RECORD OF ☒ TELECON ☐ MEETING

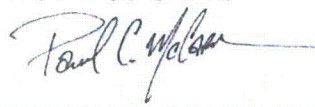
Project Name		Number	Cost Code / Phase-Task-Subtask	
Locust Point AAAFA		137198		
Date: 26 October 2010	Time: 1530	Call With <input checked="" type="checkbox"/>	NAME: Joe Gall	
Other Participants – Name / Location / Representing None		SHAW <input checked="" type="checkbox"/>	NAME: Paul McCarren	
		Telephone Number: (419) 734-2052		
		Company Name: NA		
Topic: 3 rd firing point associated with Locust Point AAAFA		Address: 328 Adams St.		
		City: Port Clinton	State: OH	Zip Code: 43452

Summary (Decisions & Specific Actions Required by Named Persons):

Called Mr. Joe Gall. According to Mr. Gall he had been a contracting officer at Camp Perry and Erie Army Depot during the time period of 1953 to 1963. Following is a summary of information provided by Mr. Gall:

- Per Mr. Gall he remembers AAA training taking place at Locust Point during the time period of 1953 to 1963.
- He was not aware of AAA firing being conducted during the time period of 1953 to 1963 at Camp Perry that would have been associated with training at Locust Point.
- He confirmed that remote control aerial targets (RCAT) were launched from Camp Perry.
- As contracting officer he was responsible for pay outs made for damage caused by RCATs that came down outside of the lake impact area. In particular he remembers paying for damage done to a farmer's orchard, damage to high tension electrical wires, and money paid to a Canadian commercial fisherman whose net was damaged by a RCAT that strayed into Canadian waters.
- He said that in addition to the AAA training conducted at Locust Point, AAA weapons (mainly 40mm) were fired at Erie Army Depot as part of proof testing and that 40mm AAA weapons were also fired at Camp Perry but the firing did not take place at the beach. He said that the Camp Perry firing was not associated with training activities at Locust Point.
- He said he had a number of photos of operations at Erie Army Depot and Camp Perry if I thought they would be helpful.

Required Action(s):

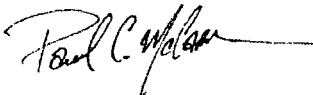
DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>	Other DISTRIBUTION (by Preparer): Mick Senus, LRB Sheila Hint, LRB	Prepared by (Signature): 
		Prepared by (Printed): Paul McCarren



Shaw Environmental & Infrastructure, Inc.

RECORD OF

☒ TELECON☐ MEETING

Project Name		Number	Cost Code / Phase-Task-Subtask	
Locust Point AAAFA		137198		
Date: 27 October 2010	Time: 1100	Call With <input checked="" type="checkbox"/>	NAME: Norma Anderson (née Apling)	
Other Participants – Name / Location / Representing None		SHAW <input checked="" type="checkbox"/>	NAME: Paul McCarren	
		Telephone Number: (419) 734-2154		
		Company Name: NA		
Topic: Locust Point AAAFA		Address: 808 Jackson Drive		
		City: Port Clinton	State: OH	Zip Code: 43452
Summary (Decisions & Specific Actions Required by Named Persons): Mrs. Norma Anderson called Paul McCarren because of the public notice she read in the Port Clinton News Herald. According to Mrs. Anderson she recalled the following regarding AAA training activities at Locust Point: <ul style="list-style-type: none">• Per Mrs. Anderson she remembers as a child attending a 4-H meeting held at the Sand Beach Dance Pavilion directly adjacent to Locust Point. She said that her 4-H advisor was friends with a member of Military Police stationed at Camp Perry and that her 4-H club was allowed to go right up to a security fence separating the private beach area near the pavilion and the area used at Locust Point for AAA training. She said her 4-H club was allowed to watch a AAA firing training session.• She said that the training session lasted approximately 1 hour.• She said that from her vantage point she could see one AA gun and its support crew.• She said that she could see the aerial targets and could see when the projectiles hit the target.• She said that it was explained to her 4-H club that each gun crew had a color specific projectile and that the targets could be examined as to what gun had connected with the target.• She said that she also remembered when the Sand Beach Dance Pavilion had burned. She said she didn't remember what year it was but that she did recall that the Government had taken over the pavilion and had been using it for munitions storage. She recalled that people went to the scene of the fire and watched as the munitions burned off. She said that the Government responded to the fire and kept people at a safe distance.				
Required Action(s):				
DISTRIBUTION: <input checked="" type="checkbox"/> Original to Project File <input type="checkbox"/> Copy to Project Manager <input type="checkbox"/> Copy to Preparer <input type="checkbox"/>		Other DISTRIBUTION (by Preparer): Mick Senus, LRB Sheila Hint, LRB		
		Prepared by (Signature): 		
		Prepared by (Printed): Paul McCarren		

Page 1 of 1

2. Public Notice



PUBLIC NOTICE

**US Army Corps
of Engineers**

BUILDING STRONG

Request for information about the Former Locust Point Anti- Aircraft Artillery Firing Area

The U.S. Army Corps of Engineers is conducting a Preliminary Assessment at the former Locust Point Anti-Aircraft Artillery (AAA) Firing Area. Locust Point AAA Firing Area was a 69.22-acre property located west of the Toussaint River on the south shore of Lake Erie near the town of Locust Point, Ottawa County, Ohio. The Locust Point AAA Firing Area was on property leased by the United States of America from the State of Ohio from 1 February 1953 to 31 August 1963. Locust Point AAA Firing Area was used as an anti-aircraft range in support of the Erie Ordnance Depot. Three firing points were reportedly associated with the site. Firing Points One and Two were located at the Locust Point AA Firing Area. Firing Point Three was reportedly located approximately 8.5 miles east at Camp Perry. Currently, the former Locust Point AAA Firing Area is part of a privately-owned wildlife refuge.

The former Locust Point AAA Firing Area is one of many Formerly Used Defense Sites (FUDS) throughout the United States that will be reviewed under the Department of Defense's Defense Environmental Restoration Program. The Preliminary Assessment on a FUDS property is used to address environmental issues relative to multiple categories including Hazardous Toxic and Radioactive Wastes (HTRW), Military Munitions Response Program (MMRP), building demolition/debris disposal (BD/DR), and containerized HTRW.

If you have information about past activities related to the former Locust Point Anti-Aircraft Artillery Firing Area, please contact the following USACE Contractor by 29 October 2010:

Paul McCarren
Contractor Tech Lead
Shaw Environmental & Infrastructure, Inc.
5050 Section Ave.
Cincinnati, OH 45212
513-782-4700
Email: Paul.McCarren@shawgrp.com

Appendix K

APP

1. Accident Prevention Report



**US Army Corps
of Engineers®**
Buffalo District

Accident Prevention Plan Locust Point Anti-Aircraft Artillery Firing Area Ottawa County, OH

**Contract No. W912QR-08-D-0013
Task Order No. DN01**

May 2010



Shaw® Shaw Environmental, Inc.

5050 Section Avenue
Cincinnati, OH 45212

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ATTACHMENT 2 SITE SAFETY AND HEALTH PLAN
ATTACHMENT 3 ACTIVITY HAZARD ANALYSIS
ATTACHMENT 4 SHAW POLICIES AND PROCEDURES

List of Acronyms and Abbreviations

AAFA	Anti-Aircraft Artillery Firing Area
AHA	Activity Hazard Analysis
ANSI	American National Standards Institute
APP	Accident Prevention Plan
CFR	Code of Federal Regulations
CIH	Certified Industrial Hygienist
CPR	cardiopulmonary resuscitation
DID	Data Item Description
DoD	Department of Defense
EH&S	Environmental Health and Safety
EM	Engineer Manual
ENG	Engineer
EOD	Explosive Ordnance Disposal
FA	first aid
FUDS	Formerly Used Defense Site
ft	foot/feet
GPS	Global Positioning System
H&S	health and safety
HAZWOPER	Hazardous Waste Operations and Emergency Response
HEAT	high-explosive anti-tank
HSM	Health and Safety Manager
JSA	Job Safety Analysis
LWD	lost workday
MD	munitions debris
MEC	munitions of explosive concern
MMRP	Military Munitions Response Program
MPPEH	Material Potentially Presenting an Explosive Hazard
MR	Munitions Response
MSDA	Material Safety Data Sheet
OSHA	Occupational Safety and Health Administration
PA	Preliminary Assessment
PM	Project Manager
PPE	personal protective equipment
Shaw	Shaw Environmental, Inc.
SI	Site Inspection
SOW	Statement of Work
SSHP	Site Safety and Health Plan
SUXOS	Senior UXO Supervisor
TCRA	Time Critical Removal Action
USACE	U.S. Army Corps of Engineers
UXO	unexploded ordnance
UXOSO	UXO Safety Officer

Accident Prevention Plan (APP) Acknowledgement _____

WORKER ACKNOWLEDGEMENT OF THE ACCIDENT PREVENTION PLAN (APP) AND SITE ORIENTATION

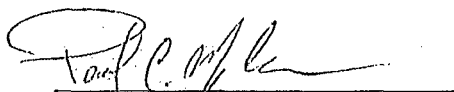
I have read or been trained on the contents of this APP and I understand the contents. I agree to abide by its requirements. I also have been properly trained, medically-monitored, and fit-tested as required for the work that I am to perform. I understand that failure to comply with the provisions of this plan can lead to disciplinary action and possible termination from the project or Shaw. Documentation of worker acknowledgment will be placed in the Project Records.

Printed Name	Signature	Date

1.0 Accident Prevention Plan

1.1 Signature Sheet

Plan Preparer:

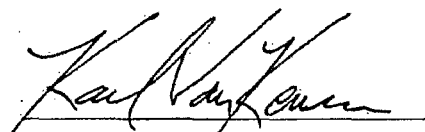


Paul McCafren
Technical Lead
513-782-4984

04-May-2010

Date

Plan Approval:



Karl VanKeuren
Project Manager
513-782-4745

04-May-2010

Date

Plan Concurrence:



James W. Truman
EH&S Specialist 3
303-918-6112

04-May-2010

Date

2.0 Background Information

This Accident Prevention Plan (APP) describes the health and safety (H&S) guidelines developed to protect on-site personnel, visitors, and the public from hazards encountered during Preliminary Assessment (PA) activities at the Locust Point Anti-Aircraft Artillery Firing Area (AAFA), located near Locust Point, Ottawa County, Ohio. Shaw Environmental, Inc. (Shaw) will perform this scope of work for the U.S. Army Corps of Engineers (USACE) under Contract W912QR-08-D-0013, Task Order DN01. This document shall be used in conjunction with the Shaw H&S policies and procedures, a Site Safety and Health Plan (SSHP), and established USACE technical and administrative procedures. The SSHP and a list of Shaw H&S policies and procedures cited herein are included as **Attachments 1 and 4** to this APP, respectively. The procedures and guidelines contained herein were based upon the best available information at the time of the plan's preparation. Specific requirements may be revised if new information is received or conditions change. Written amendments will document any changes made to the plan and will be included as an addendum to the SSHP. This APP has been prepared in accordance with Data Item Description (DID) Munitions Response (MR)-005-06.

2.1 Site Location and Project Objective

Locust Point AAFA, Formerly Used Defense Site (FUDS) property number G05OH0996, is located on the south shore of Lake Erie in Locust Point, Ottawa County, Ohio. The FUDS is located in Sections 1 and 6, Township 7 North, Range 15 East. The FUDS has one range, which is comprised of three firing points which run from west to east, along the south shore of Lake Erie. "Points One and Two were located at the Locust Point AAFA. Point Three was located on a separate property, Camp Perry, approximately 8 ½ miles east of the Locust Point AAFA" (USACE, 2009).

Shaw conducted Site Inspection (SI) field activities in 2006 for the Erie Army Depot, which included the 69.32 acres of the Locust Point AAFA property. The SI included a site reconnaissance of the beach area Locust Point AAFA (points 1 and 2) to look for evidence of munitions of explosive concern (MEC). During the SI no samples were collected and no MEC or associated munitions debris (MD) was identified within the Locust Point AAFA property (Shaw, 2008).

MEC potentially found at Locust Point AAFA includes rifle grenades; projectiles (20mm to 240mm conventional [non-high explosive shells] and high explosive rounds) and submunitions; Mortars (conventional) and HEAT rockets; and unfired or abandoned munitions and explosives.

Based on historical information a variety of munitions have been found near Locust Point AAFA. In October 1996, during drilling at the Davis-Besse power plant, a total of 11 munitions rounds were found in a marsh area near the edge of Lake Erie in the general vicinity of

the Locust Point AAAFA. An explosive ordnance team from Wright-Patterson AFB responded and disposed of:

- Two 106mm projectiles;
- Two 155mm projectiles;
- Seven rocket rounds. (Davis-Besse, 1996).

In the 2002 TCRA performed at the Lake Erie shoreline by American Technologies, the following MEC was recovered:

- 40mm projectiles [HE-I, MK-2 w/fuze, Point Detonating (PD), MK-27],
- 75mm projectiles (HE, M1, w/fuze, PD, MK-27),
- 105mm projectiles (HE, M1, w/fuze, PD, M557),
- 3-inch Stokes Mortar, and
- 60mm mortars (HE, M49A2, w/fuze, PD, M525) (American Technologies, 2002).

While MEC has been reported on the Lake Erie shoreline and in close proximity there has not been any reported MEC at the Locust Point AAAFA (Shaw, 2008).

The main elements of the scope of this project will involve:

- “Eliminate from further consideration those eligible properties, or areas of an eligible property, that pose little or no threat to human health or the environment;
- Determine if there is any potential need for removal action;
- Set priorities for site inspections at eligible FUDS properties; and
- Gather data useable for any future U.S. Environmental Protection Agency (USEPA) Hazard Ranking System (HRS) evaluation” (USACE, 2009).

The overall scope also includes contract administration, planning, data management including Geographic Information System mapping, and reporting requirements.

2.2 Shaw Accident Experience

The table below provides the Shaw experience modification rate and U.S. Occupational Safety and Health Administration (OSHA) recordable incident rate for 2007 to 2009.

Shaw Accident Experience

Year	Experience Modification Rate Interstate	OSHA Recordable Incident Rate
2009	0.51	1.10
2008	0.57	0.76
2007	0.57	0.83

2.3 *Phases of Work and Hazardous Activities*

Activity Hazard Analyses (AHAs) have been prepared for each of the anticipated work activities and are included in Attachment 2. AHAs for the following activities have been prepared:

- AHA's for Site Mobilization/Preparation; and
- MPPEH Sweeps.

3.0 Statement of Safety and Health Policy

It is the policy of Shaw to provide a safe and healthful workplace for all employees, subcontractors, and consultants in compliance with governmental requirements. Additionally, the requirements of our clients shall take precedence, provided that their requirements exceed those of Shaw and governmental regulations.

We believe in two fundamental principles of safety: (1) all accidents, injuries, and occupational illnesses are preventable; and (2) if an operation cannot be done safely, we will not do it. To put these principles into practice, every associate will receive the appropriate training, equipment, and other resources necessary to complete assigned tasks in a safe and efficient manner.

Safety, industrial hygiene, and accident prevention are the direct responsibility of all members of management, who must create an environment in which everyone shares a concern for their own safety and the safety of their associates. Safety shall take precedence over expediency or short cuts. It is a condition of employment that all employees work safely and follow established safety rules and procedures. No individual(s) may pose a direct threat to the H&S of other individuals in the workplace.

Managers must conduct their businesses in compliance with governmental safety regulations and company procedures. All Shaw H&S procedures shall be implemented for all Shaw employees on all projects where Shaw is the subcontractor, or a joint venture partner. If Shaw is the prime contractor, Shaw procedures shall be applied to all Shaw and subcontractor personnel.

The implementation of effective H&S practices is a key measure of managerial performance. Management, with the assistance of the internal H&S professional staff, will conduct audits to assess the effectiveness of the safety program(s) in place, and to identify areas for improvement. All deficiencies shall be corrected promptly.

All injuries, occupational illnesses, vehicle accidents, and incidents with potential for injury or loss will be investigated. Appropriate corrective measures will be taken to prevent recurrence, and to continually improve the safety of our workplace.

4.0 Responsibilities and Lines of Authority

Safety responsibilities, accountability, and lines of authority are discussed in Section 1.0 of the SSHP. The Project Manager (PM), Program CIH, and H&S Officer (UXO Safety Officer [UXOSO]) are responsible for formulating and enforcing H&S requirements, and implementing the SSHP. MPPEH, also known as UXO qualified personnel, will be present during any property visits including the perimeter survey to ensure all required safety precautions are taken.

5.0 Subcontractors and Suppliers

Each subcontractor working on the project site will be required to adhere to the APP/SSHP and the requirements presented below.

5.1 Subcontractor/Supplier Coordination and Control

All subcontractors will be screened for safety performance and compliance with federal alcohol and drug testing requirements prior to being issued any contract for site work. Subcontractors will comply with the requirements for site safety as outlined in Shaw's H&S Procedure HS011, *Safety and Health Rules for Contractors*. The Senior UXO Supervisor (SUXOS) will be responsible for the conduct and control of Shaw subcontractors.

5.2 Subcontractor/Supplier Safety Responsibilities

All subcontractor employees are subject to the same training and medical surveillance requirements as Shaw personnel, depending on job activity. All activities involving the potential for worker exposure to hazardous waste materials will require medical and training certification as mandated by 29 Code of Federal Regulations (CFR) 1910.120 and 29 CFR 1926.65. All subcontractor personnel will be required to sign-in daily and to attend a daily meeting discussing operations and safety issues. All subcontractors involved in construction support/remedial activities will complete a Subcontractor Pre-Job Safety Checklist prior to the start of work at the site. Subcontractors will submit AHAs for their work activities to the PM. All incidents involving subcontractor employees shall be reported to the PM and a copy of the subcontractor's injury/illness report shall be submitted to the UXOSO within 24 hours.

Subcontractors are required to read and sign the SSHP and comply with all requirements of this APP. Contractors not in compliance will be immediately dismissed from the site.

Suppliers delivering various materials to the project site or providing equipment and/or equipment maintenance will comply with all Shaw rules and regulations. Supplier personnel will not be permitted into restricted areas unless training and medical surveillance is in accordance with 29 CFR 1910.120/1926.65. Contractors will not ride on tractors, forklifts, or similar vehicles unless specific seats are provided. They will follow facility hot work rules if hot work is required. Trucks will be loaded and unloaded in a safe and effective manner, and materials will be stored safely in designated locations only. Associated packaging will be properly disposed and litter will not be permitted to be scattered or blown from truck beds. Operators of mobile equipment onsite must observe all traffic rules such as speed limits and right-of-ways of pedestrians. Any subcontractor operating a Shaw vehicle will have to meet the same driving safety training requirements as a Shaw employee. Defensive driver safety retraining is required every 2 years.

6.0 Training

6.1 Safety Indoctrination Training

All Shaw or subcontractor employees performing work under this contract shall receive initial safety indoctrination training prior to commencement of actual fieldwork. This training will be performed by the SUXOS, UXOSO, or a qualified UXO technician. At a minimum, this initial training shall include, but not be limited to, the following:

- Site location and description including emergency routes, first-aid kit location, medical clinic and/or hospital location;
- Statement of Shaw H&S policy;
- Project organization, key personnel, and responsibilities;
- Chemical, physical and biological hazards;
- MEC avoidance;
- AHA;
- Hazard control program;
- Heat/cold stress;
- Hearing conservation;
- Control of hazardous energy;
- Sanitation;
- Buddy system requirements;
- Fire prevention and protection/hot work;
- Excavation safety;
- Personal protective equipment (PPE);
- Site control measures;
- Exposure monitoring;
- Medical surveillance;
- Emergency response and contingency plan;
- Record keeping and data management;
- Accident reporting and investigation; and
- Site-specific hazard communication.

6.2 Mandatory Training and Certifications

In accordance with CFR 1910.120(e) *Hazardous Waste Operations and Emergency Response* (HAZWOPER), Engineer Manual (EM) 385 1-1, *Safety and Health Requirements Manual*, Section 28, *HAZWOPER*, and Shaw H&S procedure HS050, *Employee and Subcontractor Training Requirements*, mandatory training and certifications applicable to this project include at a minimum:

- APP/SSHP training,
- Ordnance identification training for non-UXO personnel,
- HAZWOPER 40-hour training,
- 24-hour supervised training,
- Hazardous Waste Site Supervisor training,
- 8-hour HAZWOPER refresher training,
- Shaw defensive driver training,
- Hazard communication training, and
- Cardiopulmonary resuscitation (CPR) and first aid (FA) training.

Re-certification or refresher training for the cited mandatory training shall follow the following schedule:

- An 8-hour refresher training shall be performed annually for employees who completed the initial 40-hour course.
- Shaw defensive driver training shall be performed every 2 years.
- Hazard communication training at a minimum shall be performed annually and is required on a site-specific project basis.
- CPR training shall be renewed annually and FA every 3 years.
- Shaw employees who are designated FA and CPR responders shall also have completed blood-borne pathogen training and adhere to the Shaw H&S procedure HS512, *Handling of Blood or Other Potentially Infectious Material*.
- UXO personnel shall be graduates of the Naval School EOD or a U.S. Department of Defense (DoD) certified equivalent course.

6.3 Emergency Response Training

All Shaw personnel who have completed the Shaw 40-hour HAZWOPER Training are qualified as emergency responders per 29 CFR 1910.120/1926.65 (q)(6)(iii). Site-specific emergency

response procedures will be reviewed with all site personnel as a part of site indoctrination. The Emergency Response Plan and Contingency Plans are provided in the SSHP.

6.4 Supervisory and Employee Safety Meetings

The SUXOS and UXOSO or a designated, qualified UXO technician will document and conduct daily safety meetings at the start of each work shift for all on-site personnel and will require any subcontractors to follow similar meeting procedures and participate in the Shaw daily safety meetings. Daily safety meetings will comply with Shaw procedure HS051, *Tailgate Safety Meetings*.

7.0 Safety and Health Inspections

7.1 Inspections

The Shaw PM or Program CIH shall periodically conduct site visits and perform Site Safety Assessments as required in Shaw HS021, *Tier 1, Sr. Management, Leadership Safety Assessments*. These reports are kept on file at the regional offices and are tracked in a database for each Shaw project, including the number of action items noted during the visit and written confirmation of the corrective actions for each item. These responses are compiled and provided to program management for review. Deficiencies shall also be documented on the project H&S assessment summary/deficiency tracking log. This log shall be posted on the H&S bulletin board in areas commonly used by employees. For sites where a fixed support area is not available, the log shall be maintained by the SUXOS and be readily available to all on-site personnel.

7.2 External Inspections/Certifications

Shaw does not anticipate, but may consider, the use of outside sources to provide safety inspections, as necessary.

As required, safety equipment will comply with appropriate regulations of the OSHA, National Institute for Occupational Safety and Health, American National Standards Institute (ANSI), ASTM International, or other recognized certification organizations.

8.0 Safety and Health Expectations, Incentive Programs, and Compliance

8.1 Safety Program Goals, Objectives, and Accident Experience Goals

Shaw considers safety the highest priority during work at a site containing potentially hazardous materials and has established a goal of **zero incidents** for all projects. Each project will be conducted in a manner that minimizes the probability of near misses, equipment/property damage, or injury. Shaw will establish programs to recognize people and projects that demonstrate excellence in safety performance. Shaw will use safety observation programs to identify and correct unsafe acts and conditions. Safety awareness programs will be used to provide continuous training and development of good safety practices. Shaw site supervision will investigate all incidents to determine root causes and institute corrective actions to prevent recurrence. Shaw will provide and enforce safety rules to protect employees, subcontractors, clients, and the public.

Specific goals for safety performance and incident prevention have been established through the Corporate Safety Office as follows:

- Lost workday (LWD) case incident rate: 0
- Total recordable incident rate: 1.0
- Chargeable vehicle accident rate: 0.26

The accident experience goal for this contract is **zero accidents**.

8.2 Shaw Safety Incentive Programs

The Shaw PM will develop a site-specific program for approval by the Regional Safety Manager and the USACE PM. Shaw procedure HS023, *Accident Prevention Program: Safety Incentives and Team Safety Award Program*, covers all project sites. This program has been designed to recognize group safety performance and reward the individual only when the project/location team has achieved its established goals. It is intended to encourage all employees to be concerned not only for their own safety, but for the safety of co-workers as well. Key elements of this program include:

- Eligibility,
- Program development,
- Award value,
- Program funding,
- Minimum goals,
- Award request, and

- Goal verification.

8.3 Shaw Employee Safety Responsibility Requirements

Each employee is responsible for their personal safety as well as the safety of others in the area and is expected to participate fully in the Safety Improvement Process, particularly the Safety Observation Program. The employee will use all equipment provided in a safe and responsible manner as directed by the SUXOS or the PM. All Shaw personnel will follow the policies set forth in the Shaw H&S Procedures HS001 (available onsite on compact disc, binder, or through a secure intranet). Site personnel concerned with any aspect of H&S shall bring it to the attention of the SUXOS or the PM. If not satisfied, they should contact the Shaw PM or Program CIH. All project personnel have the authority to stop work if, in their judgment, serious injury could result from continued activity. The SUXOS or the PM shall be notified immediately if this becomes necessary. When a stop work is issued, the H&S Manager (HSM) will be notified within 1 hour. To protect the H&S of all personnel, employees that knowingly disregard safety policies or procedures may be subject to disciplinary actions up to and including termination. Shaw Employee Safety Responsibility is fully detailed in HS010, *Employee Health and Safety Manual*.

8.4 Managers and Supervisors Safety Accountability

It is the duty of the first-line supervisor to motivate employees to adhere to Shaw's safety policy in each work situation. A first-line supervisor for these purposes is defined as that person designated to give immediate on-site supervision to personnel involved in a task. For the Locust Point AAAFA, this person is Paul McCarren.

All Field Team Leaders shall have complete knowledge of the safe procedure for all jobs and tasks under their supervision, or when in doubt, shall seek assistance prior to initiating a task. This is the only acceptable manner in which to perform the task. If the task cannot be accomplished safely, it will not be attempted. PM or his designee shall:

- Explain the safety procedure involved with a task to each employee and check frequently to see that the employee understands and works as instructed;
- Allocate sufficient time for the training and coaching of all employees to insure that everyone knows the correct procedure for safely accomplishing required tasks;
- Prevent new employees from performing any tasks until required training is completed;
- Immediately correct unsafe conditions that involve site employees or contractors;
- Ensure that the employees are outfitted with and wear PPE as specified by the SSHP and other Shaw procedures, or as directed by the CIH or UXOSO;
- Set a good safety example;

- Obtain the cooperation of employees and contractors;
- Provide a safe work environment for employees and contractors;
- Confirm contractor safety performance records have been verified prior to contract award and monitor contractor performance during operations;
- Report all accidents, near misses, and property damage in accordance with Shaw procedure HS020, *Accident Prevention Program: Reporting, Investigation, and Review*; and
- Establish a safety culture, using the elements of the Shaw Safety Improvement process, which promotes awareness, encourages participation, and recognizes excellence.

9.0 Accident Reporting

9.1 Exposure Data (Man-hours Worked)

Shaw's Environmental Health and Safety (EH&S) Manager tracks and maintains incident records for federal reporting requirements. Incident rates are reported monthly to the Shaw's EH&S Manager. Incident rates and workers compensation losses are tracked for each business line. Man-hours and LWD cases will be submitted to the Contracting Officer's Representative monthly. The data must be submitted to arrive at USACE not later than 10 calendar days after the end of each month. The information cut-off date will be the last day of each month. The monthly submission must include the following: the title of the report (i.e., Accident Exposure Data Report); contract number; task order number; project site; month and year for which the report is made; a point of contact listing both email address and telephone number; number of LWD accidents to include total days lost; on job transfer or restriction; and away from work days. If no hours are worked on the project/task, a report showing "zero (0)" is required.

9.2 Accident Investigations, Reports, and Logs

The SUXOS and PM shall conduct accident/incident investigations. A report is completed by the PM and it must be submitted within 24 hours to the EH&S Manager, who will review and provide copies to the Shaw Corporate Safety Department in Baton Rouge, Louisiana. All incident reporting forms are provided in Shaw procedure HS020, *Accident Prevention Program: Reporting, Investigation, and Review*.

Engineer (ENG) Form 3394 is required to be prepared and submitted in reporting LWD cases, accidents where three or more persons are admitted to a hospital, a fatality injury/illness, permanent totally disabling injury/illness, permanent partial disabling injury/illness, or property damage greater than \$2,000. ENG Form 3394 must be submitted to the Contracting Officer or authorized representative following the accident in accordance with EM 385-1-1.

Minor incidents, such as near misses or first-aid injuries, shall be included in the daily field quality control reports and reported to the EH&S Manager.

9.3 Immediate Notification of Major Accidents

Shaw will immediately notify the client of any major accident, including injury, fire, equipment/property damage, and environmental incident.

Immediate notification and investigation of accidents is an important component of Shaw procedure HS020. A full report will be provided within 24 hours. Shaw will notify the Contracting Officer as soon as practical, but not later than 4 hours after ALL accidents. Notification will include contractor name; contract title; type of contract; name of activity, installation or location where accident occurred; date and time of accident; names of personnel

injured; extent of property damage, if any; extent of injury, if known, and brief description of accident (to include type of construction equipment used, PPE used, etc.). Accidents involving personal injury/illness or property damage shall immediately be reported to the Shaw Helpdesk.

9.4 Accident Response

The nearest workers will immediately assist a person who shows signs of medical distress or who is involved in an accident as long as the accident scene is safe. The PM will be immediately contacted. The PM will immediately make contact with field personnel to alert them of a medical emergency situation. The PM will be advised of the following information:

- Location of the victim at the work site,
- Nature of the emergency,
- Whether the victim is conscious, and
- Specific conditions contributing to the injury, if known.

10.0 Medical Support

Medical support will be provided onsite by CPR/FA qualified first responders.

The SUXOS or UXOSO is designated as the first responder for medical emergencies or minor injuries. At least two on-site employees will be FA and CPR qualified. Off-site medical support will be provided by local occupational health clinics or hospitals. Directions to the nearest hospital/medical facility are included in the SSHP (Attachment 1).

11.0 *Personal Protective Equipment*

Shaw procedure HS600, *Personal Protective Equipment*, outlines minimum PPE requirements. This procedure, coupled with H&S management experience, training in proper selection, use, and maintenance of PPE, site-specific conditions, potential environmental contaminants, and physical hazards, will dictate site-specific requirements. Initial protection levels provided in the SSHP have been established for the site work activities based on the anticipated levels of site contaminants, physical hazards, and the scope of work. The SSHP in conjunction with HS600 shall serve as the written certification for use of PPE. All selected PPE shall be used in accordance with manufacturer's recommendations and best management practices. Once onsite, visual inspection of the work activities by the SUXOS, UXOSO, or PM may indicate the need for changes in PPE level(s). Any significant change in the PPE level will be approved by the Program CIH and/or HSM.

All personnel using respiratory protection (if necessary) will be cleared by a physician for use of a respirator and will be fit-tested to assure they can achieve an acceptable fit. Physician clearance and results of fit testing will be documented as required.

12.0 Plans (Programs, Procedures) Required by EM 385-1-1

12.1 Layout Plans

Layout plans are not anticipated for this scope of work since temporary facilities will not be constructed onsite. Work zones are identified in Section VI of the SSHP, *Site Control*.

12.2 Emergency Response Plans

Shaw employees will travel to the nearest medical facilities identified in the SSHP. Emergency response information shall be reviewed prior to initiation of field work so workers become familiar with the hospital route and nearest occupational medical facilities. Employees shall become familiar with information in the SSHP that addresses the following:

- Emergency Contacts,
- Medical Emergencies,
- Personal Injury,
- Fire Control,
- Spills or Leaks,
- Site Evacuation,
- Emergency Decontamination, and
- Adverse Weather Conditions/Natural Disasters.

12.3 Hazard Communication Program

Material Safety Data Sheets for chemicals that may be required during site operations shall be provided in the SSHP and will be updated by the SUXOS as new chemicals are brought onsite. Shaw procedure HS060, *Hazard Communication Program*, shall be implemented onsite.

Hazardous materials, with the exception of explosives used in demolition operations, are not anticipated to be brought onsite in the execution of this Statement of Work (SOW). Employee hazard communication training records are available through the Shaw Records Training Department via secure intranet access.

12.4 Respiratory Protection Plan

The primary objective of respiratory protection is to prevent employee exposure to atmospheric contamination. When engineering measures to control contamination and respirable hazards are not feasible, or while they are being implemented, personal respiratory protective devices will be used. Shaw's respiratory protection requirements are specified in HS601, *Respiratory Protection Program*.

The criteria for determining respirator need have been evaluated based on the SOW and potential contamination. Respiratory protection is not anticipated based on the SOW. In the event that conditions change, air monitoring will be conducted to confirm that respiratory protection levels are adequate. All respirator users will be OSHA trained in proper respirator inspection, use, storage, and maintenance. All persons assigned to use respirators will have medical clearance to do so.

12.5 Health Hazard Control Program

The AHAs presented in the SSHP address the hazard evaluation for proposed site activities. The AHA shall serve as the initial certification of hazard assessment and has been prepared by the Shaw HSM. The AHA is an ongoing process from initiation of the SSHP to implementation and completion of fieldwork. The second phase consists of further analysis in the field and completing a daily Job Safety Analysis (JSA). Shaw procedure HS045, *Job Safety Analysis*, shall be used to document second-phase hazard control. The SUXOS or PM will complete the JSA in accordance with the requirements contained in HS045 and when site conditions or potential hazards change. The JSA will serve as an amendment to the initial AHA and shall be reviewed with all site employees during the daily tailgate safety meeting.

12.6 Lead Abatement Plan

A lead abatement plan is not required based on the current SOW.

12.7 Asbestos Abatement Plan

An asbestos abatement plan is not required based on the current SOW.

12.8 Abrasive Blasting Plan

An abrasive blasting plan is not required based on the current SOW.

12.9 Confined Space

Shaw procedure HS300, *Confined Spaces*, is the written confined space entry program that covers permit and non-permit confined space entry requirements. Confined space entry is not anticipated based on the current SOW.

12.10 Hazardous Energy Control Plan

Shaw procedure HS315, *Control of Hazardous Energy Sources and Hazardous Material Sources*, provides the necessary guidelines specific to lockout/tagout. A lockout/tagout site-specific plan is not required based on the current SOW.

12.11 Critical Lift Procedures

Shaw procedure HS822, *Crane Operations*, and HS823, *Rigging and Lifting*, define critical lift procedures. Critical lift plans are not required based on the current SOW.

12.12 Contingency Plan for Severe Weather

Contingency plans for severe weather are included in the SSHP.

12.13 Access and Haul Road Plan

An access and haul road plan is not required based on the current SOW and existing site conditions. Current access roads shall be used.

12.14 Demolition Plan (Engineering and Asbestos Surveys)

A demolition plan, including engineering evaluation and lead-based paint and asbestos surveys, is not required based on the current SOW.

12.15 Emergency Rescue (Tunneling)

Tunneling is not anticipated based on the current SOW.

12.16 Underground Construction Fire Prevention and Protection Plan

An underground construction fire prevention and protection plan is not required based on the current SOW.

12.17 Compressed Air Plan

A compressed air plan is not required based on the current SOW.

12.18 Formwork and Shoring Erection and Removal Plans

Formwork and shoring erection and removal plans are not required based on the current SOW.

12.19 Jacking Plan (Lift) Slab Plan

A jacking plan (lift) slab plan is not required based on the current SOW.

12.20 Blasting Plan

A blasting plan is not required based on the current SOW.

12.21 Diving Plan

A diving plan is not required based on the current SOW.

12.22 Alcohol and Drug Abuse Prevention Plan

Shaw substance abuse procedures are outlined in Shaw HS101, *Drug and Alcohol Testing*. Shaw is committed to a drug- and alcohol-free work place. Pre-employment, reasonable cause, and client-specific drug and alcohol testing is part of the overall substance abuse program. Post accident drug and alcohol testing is a requirement of Shaw when not prohibited by state or local law.

12.23 Fall Protection Plan

Shaw procedure HS301, *Fall Protection*, outlines minimum requirements for employee protection when exposed to a fall of 6 ft or greater, or when working over dangerous equipment or operations. A site-specific fall protection plan is not required based on the current SOW.

12.24 Steel Erection Plan

A steel erection plan is not required based on the current SOW.

12.25 Night Operations Lighting Plan

Shaw will not perform field activities during hours of darkness. A night operations lighting plan is not required based on the current SOW.

12.26 Site Sanitation Plan

A site sanitation plan is not required based on the current SOW.

12.27 Fire Prevention Plan

A fire prevention plan is not required based on the current SOW. Spark- or flame-producing operations shall follow the requirements outlined in Shaw procedure HS314, *Hot Work*, and the SSHP.

13.0 Contractor Information to Meet the Requirements of the Major Sections of EM 385-1-1

Shaw will provide personnel with the necessary training and experience to safely execute this project and SOW. Employees will be competent in the respective areas of site work for which they will be involved. In addition to this APP, Shaw has prepared an SSHP (**Attachment 1**) to meet the major requirements of EM 385-1-1, *USACE Safety and Health Requirements Manual*. The level of detail provided in the SSHP has been tailored to the type of work, complexity of operations, and hazards anticipated. For all locations, chemical, physical, and biological occupational exposure prevention shall be addressed as well as ordnance safety requirements. Additional procedures for major requirements are provided in the Shaw H&S Procedures Manual.

Medical and FA support will be provided onsite by FA- and CPR-qualified first responders. The SUXOS and UXOSO are designated as the first responders for medical emergencies or minor injuries. At least two on-site employees will be FA- and CPR-qualified.

Shaw will provide suitable PPE as required for the nature of the job being performed, including but not limited to chemical resistant boots, safety eyewear, hard hats, reflective apparel, and gloves. This PPE will be specified by the H&S department prior to use, subject to an assessment of the hazards to which employees will be potentially exposed. Employees shall use H&S approved PPE on any task where there is potential exposure to physical hazards (such as equipment operation, objects dropping from above, or flying particles), or exposure to toxic or irritating gases, fumes, vapors, liquids, or other materials, which may cause respiratory distress or skin irritation. Employees shall be trained in the proper use, maintenance, and limitations of PPE. Employees shall wear hard hats where head hazards exist (chinstraps may be necessary for MEC operations), eye protection, and ANSI-approved safety foot protection when foot hazards exist at all job sites.

Fire prevention shall be accomplished by the use of inspection and permit systems for all spark- or flame-producing activities. The local fire department shall be notified in advance of site operations and appraised of the type of work and location where fire safety controls are essential. Fire watches shall be required and personnel will understand how to properly operate fire-extinguishing systems and make emergency notifications. All "hot work" activities shall comply with Shaw H&S procedure HS314, *Hot Work*.

Public safety will be achieved by the means of site control zones and access to the work area by authorized personnel only. Site control measures are described in the SSHP.

14.0 Site-Specific Hazards and Controls

Before initiating a work activity presenting hazards not identified in the initial AHAs, the SUXOS or PM will complete a JSA in consultation with the HSM. Shaw H&S procedure HS045, *Job Safety Analysis*, will be used whenever activities, site conditions, or operations change. The AHA describes steps to safely mitigate classic safety hazards, explosive ordnance and explosives hazards, and chemical, physical, and biological hazards.

ATTACHMENT 1
CONTRACTOR ACCIDENT PREVENTION PLAN (APP)
CHECKLIST

CONTRACTOR ACCIDENT PREVENTION PLAN (APP) CHECKLIST (EM 385-1-1), Attachment 1, dated: 19 February 2010**Minimum Basic Outline for Accident Prevention Plan**

The APP is the Contractor Safety and Health Program Document. The following Site Specific Areas will be addressed:

NOTE: 1. Contractor will complete Checklist and Submit with their APP.

NOTE: 2. Contractor APP WILL be submitted in format below.

NOTE: 3. Safety Office will review Contractor APP and return to PM / COR.

NOTE: 4. Contractor APP's ARE NOT APPROVED by the USACE, only found as Acceptable or Non-Acceptable.

Safety Office Review Status: ACCEPTED BY/DATE: _____ NOT ACCEPTED BY/DATE: _____

Contractor Name:

Contract No:

Project Title & Location:	Included?			Location:
	Yes	No	N/A	Page(s)
ALL CHECKLIST ITEMS WILL BE COMPLETED!				
1. SIGNATURE SHEET. Title, signature, and phone number of the following:	X			1.0
a. <i>Plan Preparer</i> (qualified person, Competent Person such as corporate safety staff person, QC).	X			1.0
b. <i>Plan Approval</i> by company/corporate officers authorized to obligate the company (e.g. owner company president, regional vice president etc.)	X			1.0
c. <i>Plan Concurrence</i> (e.g. Chief of Operations, Corporate Chief of Safety, Corporate Industrial Hygienist, project manager or superintendent, project safety professional, project QC). Provide concurrence of other applicable corporate and project personnel (Contractor).	X			1.0
2. BACKGROUND INFORMATION. List the following:				
a. Contractor;	X			D-2-1
b. Contract number;	X			D-2-1
c. Project name;	X			D-2-1
d. Brief project description, description of work to be performed, and location; phases of work anticipated (these will require an AHA).	X			D-2-1
3. STATEMENT OF SAFETY AND HEALTH POLICY. Provide a copy of your current corporate/company Safety & Health Policy Statement, detailing commitment to providing a safe and healthful workplace for all employees. The Contractor's written safety program goals, objectives, and accident experience goals for this contract should be provided.	X			D-3-1
4. RESPONSIBILITIES AND LINES OF AUTHORITIES. Provide the following:				
a. A statement of the employer's ultimate responsibility for the implementation of his SOH program;	X			D-4-1
b. Identification and accountability of personnel responsible for safety at both corporate and project level. Contracts specifically requiring safety or industrial hygiene personnel shall include a copy of their resumes. Qualifications shall include the OSHA 30-hour course or equivalent course areas as listed here:	X			D-4-1
(1) OSH Act/General Duty Clause;				
(2) 29 CFR 1904, Recordkeeping;				
(3) Subpart C: General Safety and Health Provisions, Competent Person				
(4) Subpart D: Occupational Health and Environmental Controls, Citations and Safety Programs;				

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Contractor Name:

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Project Title & Location:	Included?			Location:
	Yes	No	N/A	Page(s)
(5) Subpart E: PPE, types and requirements for use;				
(6) Subpart F: understanding fire protection in the workplace;				
(7) Subpart K: Electrical;				
(8) Subpart M: Fall Protection;				
(9) Rigging, welding and cutting, scaffolding, excavations, concrete and masonry, demolition; health hazards in construction, materials handling, storage and disposal, hand and power tools, motor vehicles, mechanized equipment, marine operations, steel erection, stairways and ladders, confined spaces or any others that are applicable to the work being performed.	X			D-4-1
c. The names of Competent and/or Qualified Person(s) and proof of competency/qualification to meet specific OSHA Competent/Qualified Person(s) requirements must be attached. The District SOHO will review the qualifications for acceptance;	X			C-7 in SSHP
d. Requirements that no work shall be performed unless a designated competent person is present on the job site;	X			D-4-1
e. Requirements for pre-task safety and health analysis;	X			D-6-3
f. Lines of authority;	X			D-4-1
g. Policies and procedures regarding noncompliance with safety requirements (to include disciplinary actions for violation of safety requirements) should be identified;	X			D-8-2
h. Provide written company procedures for holding managers and supervisors accountable for safety.	X			D-8-2
5. SUBCONTRACTORS AND SUPPLIERS. If applicable, provide procedures for coordinating SOH activities with other employers on the job site:	X			D-5-1
a. Identification of subcontractors and suppliers (if known);			X	
b. Safety responsibilities of subcontractors and suppliers.	X			D-5-1
6. TRAINING.				
a. Requirements for new hire SOH orientation training at the time of initial hire of each new employee.	X			D-6-1
b. Requirements for mandatory training and certifications that are applicable to this project (e.g., explosive actuated tools, confined space entry, crane operator, diver, vehicle operator, HAZWOPER training and certification, PPE) and any requirements for periodic retraining/recertification.	X			D-6-2
c. Procedures for periodic safety and health training for supervisors and employees.	X			D-6-3

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Contractor Name:

Contract No:

Project Title & Location:	Included?			Location:
	Yes	No	N/A	Page(s)
d. Requirements for emergency response training. > See 9.b. below for a list of requirements that may require emergency response training.	X			D-6-2
7. SAFETY AND HEALTH INSPECTIONS.	X			D-7-0
a. Specific assignment of responsibilities for a minimum daily job site safety and health inspection during periods of work activity: Who will conduct (e.g., SSHO, PM, safety professional, QC, supervisors, employees – depends on level of technical proficiency needed to perform said inspections), proof of inspector's training/qualifications, when inspections will be conducted, procedures for documentation, deficiency tracking system, and follow-up procedures;	X			D-7-0
b. Any external inspections/certifications that may be required (e.g., USCG).	X			D-7-0
8. ACCIDENT REPORTING. The Contractor shall identify person(s) responsible to provide the following:				
a. Exposure data (man-hours worked);	X			D-9-1
b. Accident investigations, reports, and logs: Report all accidents as soon as possible but not more than 24 hours afterwards to the Contracting Officer/Representative (CO/COR). The contractor shall thoroughly investigate the accident and submit the findings of the investigation along with appropriate corrective actions to the CO/COR in the prescribed format as soon as possible but no later than five (5) working days following the accident. Implement corrective actions as soon as reasonably possible;	X			D-9-1
c. The following require immediate accident notification:	X			D-9-1
(1) A fatal injury;				
(2) A permanent total disability;				
(3) A permanent partial disability;				
(4) The hospitalization of three or more people resulting from a single occurrence;				
(5) Property damage of \$200,000 or more.				
9. PLANS (PROGRAMS, PROCEDURES) REQUIRED BY THE SAFETY MANUAL. Based on a risk assessment of contracted activities and on mandatory OSHA compliance programs, the Contractor shall address all applicable occupational risks and compliance plans. Using the EM 385-1-1 as a guide, plans may include but not be limited to:	X			D-12-1
a. Layout plans (04.A.01);			X	
b. Emergency response plans:	X			D-12-1

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Contractor Name:

Contract No:

Project Title & Location:	Included?			Location: Page(s)
	Yes	No	N/A	
(1) Procedures and tests (01.E.01);		X		
(2) Spill plans (01.E.01, 06.A.02);	X			D-12-1
(3) Firefighting plan (01.E.01, Section 19);	X			D-12-1
(4) Posting of emergency telephone numbers (01.E.05);				
(5) Man overboard/abandon ship (Section 19.A.04);			X	
(6) Medical Support. Outline on-site medical support and offsite medical arrangements including rescue and medical duties for those employees who are to perform them, and the name(s) of on-site Contractor personnel trained in first aid and CPR. A minimum of two employees shall be certified in CPR and first aid per shift/site (Section 03.A.02; 03.D);	X			D-9-2/ D-10-1
c. Plan for prevention of alcohol and drug abuse (01.C.02);	X			D-12-3
d. Site sanitation plan (Section 02);	X			D-12-4
e. Access and haul road plan (4.B);	X			D-12-3
f. Respiratory protection plan (05.G);	X			D-12-1
g. Health hazard control program (06.A);	X			D-12-2
h. Hazard communication program (06.B.01);	X			D-12-1
i. Process Safety Management Plan (06.B.04);			X	
j. Lead abatement plan (06.B.05 & specifications);	X			D-12-2
k. Asbestos abatement plan (06.B.05 & specifications);	X			D-12-2
l. Radiation Safety Program (06.E.03.a);			X	
m. Abrasive blasting (06.H.01);	X			D-12-2
n. Heat/Cold Stress Monitoring Plan (06.I.02)				
o. Crystalline Silica Monitoring Plan (Assessment) (06.M);			X	
p. Night operations lighting plan (07.A.08);	X			D-12-4
q. Fire Prevention Plan (09.A);	X			D-12-4
r. Wild Land Fire Management Plan (09.K);			X	
s. Hazardous energy control plan (12.A.01);	X			D-12-2
t. Critical lift Plan (16.H);	X			D-12-2
u. Contingency plan for Floating Plants for severe weather (19.A.03);	X			D-12-3
v. Float Plan (19.F.04);			X	
w. Site-Specific Fall Protection & Prevention Plan (21.C);	X			D-12-4

CONTRACTOR ACCIDENT PREVENTION PLAN (APP) CHECKLIST (EM 385-1-1), Attachment 1, dated: 19 February 2010**Minimum Basic Outline for Accident Prevention Plan**

The APP is the Contractor Safety and Health Program Document. The following Site Specific Areas will be addressed:

NOTE: 1. Contractor will complete Checklist and Submit with their APP.

NOTE: 2. Contractor APP WILL be submitted in format below.

NOTE: 3. Safety Office will review Contractor APP and return to PM / COR.

NOTE: 4. Contractor APP's ARE NOT APPROVED by the USACE, only found as Acceptable or Non-Acceptable.

Safety Office Review Status: ACCEPTED BY/DATE: _____ NOT ACCEPTED BY/DATE: _____

Contractor Name: _____

Contract No: _____

Project Title & Location:	Included?			Location:
	Yes	No	N/A	Page(s)
x. Demolition plan (to include engineering survey) (23.A.01);	X			D-12-3
y. Excavation/trenching plan (25.A.01);			X	
z. Emergency rescue (tunneling) (26.A.);	X			D-12-3
aa. Underground construction fire prevention and protection plan (26.D.01);	X			D-12-3
bb. Compressed air plan (26.I.01);	X			D-12-3
cc. Formwork and shoring erection and removal plans (27.C);				
dd. PreCast Concrete Plan (27.D);		X		
ee. Lift slab plans (27.E);	X			D-12-3
ff. Steel erection plan (27.F.01);	X			D-12-4
gg. Site Safety and Health Plan for HTRW work (28.B);			X	
hh. Blasting Safety Plan (29.A.01);	X			D-12-3
ii. Diving plan (30.A.13);	X			D-12-3
jj. Confined space Program (34.A);	X			D-12-2
10. RISK MANAGEMENT PROCESSES. Detailed project-specific hazards and controls shall be provided by an Activity Hazard Analysis (01.A.13) for each major phase/activity of work.	X			ATT 2
11. ABBREVIATED APP for LIMITED-SCOPE SERVICE, SUPPLY AND R&D CONTRACTS. If service, supply and R&D contracts with limited scopes are awarded, the contractor may submit an abbreviated Accident Prevention Plan. This APP shall address the following areas at a minimum. If other areas of the EM 385-1-1 are pertinent to the contract, the contractor must assure these areas are addressed as well.			X	
a. Title, signature, and phone number of the plan preparer.				
b. Background Information to include: Contractor; Contract number; Project name; Brief project description, description of work to be performed, and location (map); The project description shall provide a means to evaluate the work being done (see AHA requirements in 01.A.13) and associated hazards involved. Contractor's APP shall address the identified hazards involved and the control measures to be taken.				
c. Statement of Safety and Health Policy detailing their commitment to providing a safe and healthful workplace for all employees.				
d. Responsibilities and Lines of Authorities – to include a statement of the employer's ultimate responsibility for the implementation of his SOH program; Identification and accountability of personnel responsible for safety at all levels to include designated site safety and health officer (SSHO) and associated qualifications. The District SOHO will review the qualifications for acceptance.				

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Contractor Name:

Contract No:

Project Title & Location:	Included?			Location:
	Yes	No	N/A	Page(s)
e. Training - new hire SOH orientation training at the time of initial hire of each new employee and any periodic retraining/recertification requirements.				
f. Procedures for job site inspections - assignment of responsibilities and frequency.				
g. Procedures for reporting man-hours worked and reporting and investigating any accidents as soon as possible but not more than 24 hours afterwards to the Contracting Officer/Representative (CO/COR). An accident that results in a fatal injury, permanent partial or permanent total disability shall be immediately reported to the Contracting Officer.				
h. Emergency Planning. Employees working alone shall be provided an effective means of emergency communication. This may be cellular phone, two-way radio or other acceptable means. The selected means of communication must be readily available and must be in working condition.				
i. Drinking Water provisions, toilet and washing facilities.				
j. First Aid and CPR training (at least two employees on each shift shall be qualified/certified to administer first aid and CPR) and provision of first aid kit (types/size).				
k. Personal Protective Equipment.				
(1) WORK CLOTHING - Minimum Requirements. Employees shall wear clothing suitable for the weather however minimum requirements for work shall be short-sleeve shirt, long pants (excessively long or baggy pants are prohibited) and leather work shoes. If analysis determines that safety-toed (or other protective) footwear is necessary (i.e., mowing, weed eating, chain saw use, etc), they shall be worn.				
(2) Eye and Face Protection. Eye and face protection shall be worn as determined by an analysis of the operations being performed HOWEVER, all involved in chain saw use, chipping, stump grinding, pruning operations, grass mowing, weed eating and blowing operations shall be provided safety eyewear (Z87.1) as a minimum.				
(3) Hearing Protection. Hearing protection must be worn by all those exposed to high noise activities (to include grass mowing and trimming, chainsaw operations, tree chipping, stump grinding and pruning).				
(4) Head Protection. Hard hats shall comply with ANSI Z89.1 and shall be worn by all workers when a head hazard exists. At a minimum, hard hats shall be worn when performing activities identified in (2) above.				
(5) High Visibility Apparel shall comply with ANSI/ISEA 107, Class 2 requirements at a minimum and shall be worn by all workers exposed to vehicular or equipment traffic.				
(6) Protective Leg chaps shall be worn by all chainsaw operators.				
(7) Gloves of the proper type shall be worn by persons involved in activities that expose the hands to cuts, abrasions, punctures, burns and chemical irritants.				

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Contractor Name: _____

Contract No: _____

Project Title & Location:	Included?			Location: Page(s)
	Yes	No	N/A	
(8) If work is being performed around water and drowning is a hazard, PFDs must be provided and worn as appropriate.				
l. Machine Guards and safety devices. Lawn maintenance equipment must have appropriate guards and safety devices in place and operational.				
m. Hazardous Substances. When any hazardous substances are procured, used, stored or disposed, a hazard communication program must be in effect and MSDSs shall be available at the worksite. Employees shall have received training in hazardous substances being used. When the eyes or body of any person may be exposed to corrosives, irritants or toxic chemicals, suitable facilities for quick drenching or flushing of the eyes and body shall be provided within 10 seconds of the worksite.				
n. Traffic control shall be accomplished in accordance with DOT's MUTCD.				
o. Control of Hazardous Energy (Lockout/Tagout). Before an employee performs any servicing or maintenance on any equipment where the unexpected energizing or startup of the equipment could occur, procedures must be in place to ensure adequate control of this energy.				
p. Driving, working on (i.e., working with equipment/mowers) while on slopes, working from/in boats/skiffs, etc shall also be considered and dealt with accordingly.				
HTRW Projects Additional Requirements (EM 385-1-1, Section 28 HAZWOPER): SSHP (Site Safety and Health Plan) shall be attached to the APP as an Appendix. The SSHP shall cover the following in project-specific detail. General information adequately covered in the APP need not be duplicated.				
a. Site description and contamination characterization				
b. Hazard/Risk Analysis - AHA for each task				
c. Staff Organization; Qualifications; Responsibilities				
d. Training - General, Supervisor and Project Specific				
e. PPE Personal Protective Equipment				
f. Medical Surveillance				
g. Exposure Monitoring/ Air Sampling Program				
h. Heat and Cold Stress - Procedures and Practices				
i. SOPs Standard Operating Procedures; Engineering Controls; Work Practices:				
(1) Site rules/prohibitions (buddy system, eating/drinking/smoking restrictions, etc.)				
(2) Work permit requirements (rad work, excavation, hot work, confined space etc.)				
(3) Material handling procedures (soil, liquid, rad materials, spill contingency)				
(4) Drum/container/tank handling (opening, sampling, draining, removal, etc.)				
(5) Comprehensive AHA of treatment technologies employed at site				

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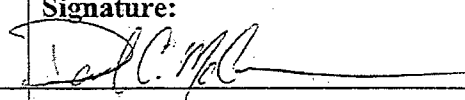

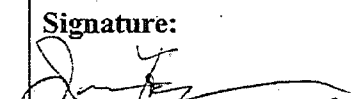
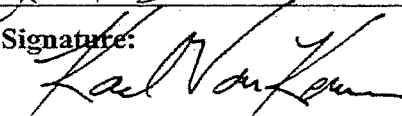
Safety Office Review Status: ACCEPTED BY/DATE: _____ NOT ACCEPTED BY/DATE: _____

Contractor Name:

Contract No:

Project Title & Location:	Included?			Location:
	Yes	No	N/A	Page(s)
j. Site Control Measures: Clearly Defined EZ, SZ, CRZ				
k. Personal Hygiene and Decontamination				
l. Equipment Decontamination				
m. Emergency Equipment and First Aid				
n. Emergency Response and Contingency Procedures:				
(1) Pre-emergency planning				
(2) Personnel and lines of authority for emergency situations				
(3) Criteria and procedures for emergency recognition and site evacuation (alarms, etc.)				
(4) Decontamination and medical treatment of injured personnel				
(5) A route map to emergency medical facilities and phone numbers for emergency responders				
(6) Criteria for alerting the local community responders				

ATTACHMENT 2
SITE SAFETY AND HEALTH PLAN

SITE SAFETY AND HEALTH PLAN (SSHP) REVIEWS AND ACCEPTANCE US Army Corps of Engineers, Buffalo District		This SSHP is a part of the Buffalo District Safety Program. Please read and comply with USACE EM 385-1-1 and CENWO OM 385-1-1.
Reviewer	Date	Signatures
Authored by: Paul McCarren	04 May - 2010	Signature: 
Peer Review by: William Scoville	5/4/10	Signature: 
Quality Control Review (QCR) by: James W. Truman, EH&S Specialist 3	04 - May - 2010	Signature: 
Project Manager Review by: Karl VanKeuren	04 - May - 2010	Signature: 
USACE Buffalo District MM DC OE Safety Specialist Review:		Signature:
USACE Buffalo District MM DC Project Manager Acceptance: Mick Senus		Signature:

SITE SAFETY AND HEALTH PLAN (SSHP) TITLE PAGE US Army Corps of Engineers, Buffalo District	This SSHP is a part of the Buffalo District Safety Program. Please read and comply with USACE EM 385-1-1 and CENWO OM 385-1-1.
PROJECT NAME: Formerly Used Defense Site (FUDS) Preliminary Assessment (PA) – Locust Point Anti-Aircraft Artillery Firing Area (AAAFA)	
PURPOSE OF SSHP: This SSHP provides details specific to PA activities at this FUDS.	

SITE SAFETY AND HEALTH PLAN

Site Name:	Locust Point Anti-Aircraft Artillery Firing Area
Site Location:	Locust Point AAAFA is located on the south shore of Lake Erie in Locust Point, Ohio in Ottawa County. The munitions response site (MRS) is Locust Point AAAFA.
Purpose of Visit:	Site inspection to conduct site reconnaissance for munitions and explosive of concern (MEC).
Date(s) of Site Visit:	April 2010
Office:	Shaw Environmental, Inc., Cincinnati, Ohio office
Address:	5050 Section Avenue Cincinnati, OH 45212
Telephone:	513-782-4700

Date Prepared: February 19, 2010

PA work at this FUDS will be conducted in accordance with the approved Accident Prevention Plan.

I. SITE DESCRIPTION AND PREVIOUS INVESTIGATIONS

(A site map is provided in the Site-Specific Work Plan.)

A. SITE DESCRIPTION:

- Size: One Munitions Response Site (MRS) covering approximately 69.32 acres.
- Present Usage (Check all that apply)

<input checked="" type="checkbox"/> Military	<input checked="" type="checkbox"/> Recreational	<input type="checkbox"/> Agricultural (primary use)
<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Landfill
<input checked="" type="checkbox"/> Natural Area	<input checked="" type="checkbox"/> Industrial	
<input type="checkbox"/> Other Specify		

<input checked="" type="checkbox"/> Secured	<input type="checkbox"/> Active	<input type="checkbox"/> Unknown
<input checked="" type="checkbox"/> Unsecured	<input type="checkbox"/> Inactive	

B. PAST USES:

From 1918 to 1920, the Erie Army Depot (Erie AD) was used for proof-firing of artillery (all artillery through 240mm). From 1920 to 1941, the Erie AD served as a receipt, storage and issue point for munitions. Beginning again in 1941, the Erie AD was used as a proving ground until 1946 when the mission of the Erie AD reverted to a receipt, storage and issue point, with support for propulsion, guidance and missile components. Proof-acceptance was added to the Erie AD's mission beginning in 1950. Munitions depot activities, proving ground activities, and munitions training continued until 1967.

From February 1953 to August 1963, Locust Point AAAFA was used as an anti-aircraft artillery range in support of the Erie Ordnance Depot. "The anti-aircraft artillery range consisted of three firing points numbered One, Two, and Three, from west to east, along the south shore of Lake Erie. Points One and Two were located at the Locust Point AAAFA. Point Three was located on a separate property, Camp Perry, approximately 8 ½ miles east of the Locust Point AAAFA. Each firing point was equipped with a fifty foot safety tower, which had a siren and horn. Target consisted of radio-controlled aircraft and towed targets. The 69.32-acre former Locust Point AAA Firing Area property is currently located within a privately owned, 733-acre wildlife refuge."

MEC potentially found at Locust Point AAAFA includes Rifle grenades; Projectiles (20mm to 240mm conventional [non-high explosive shells] and high explosive rounds) and submunitions; Mortars (conventional) and HEAT rockets; and Unfired or abandoned munitions and explosives.

C. SURROUNDING POPULATION:

<input checked="" type="checkbox"/> Rural	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Commercial
<input type="checkbox"/> Urban	<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other Specify		

D. PREVIOUS SAMPLING/INVESTIGATION RESULTS:

Inspections conducted within or in close proximity to the FUDS include an *Inventory Project Report* (USACE, 1991), *Final Removal Report* (Human Factors Application Inc., 1996); *Time Critical Removal Action* (American Technologies, 2002), *Final Report* (Environmental Security Technology Certification Program, 2007), and *Final Site Investigation Report Erie Army Depot* (Shaw, 2008).

An Inventory Project Report (INPR)/PA for Erie Army Depot was issued in 1991. According the INPR/PA, several hundred pieces of MEC were found on the beach area of the former Erie AD.

In 1992, Explosive Ordnance Disposal (EOD) Technology UXO technicians, along with the USACE – Louisville District, combined to identify and remove 5,438 pieces of MEC or munitions debris and 13 tons of scrap metal from the Lake Erie shoreline from the mouth of the Toussaint River east to the Ohio National Guards' Camp Perry facility.

In February 1996, Human Factors Application, Inc. issued a *Final Removal Report – Unexploded Ordinance Support for the Toussaint River Dredging Project*. During dredging on the Toussaint River channel 6 live and 31 inert ordnance items as well as 568 pounds of scrap were located and removed. The live ordinance items included M28 3.5-inch Rockets, M49A2 60mm Mortars and the inert ordinance items included M344 106mm projectiles, M52 Fuze, M15 Smoke Grenade, M489 105 mm projectiles, M333 90mm projectiles.

In October 1996, during drilling at the Davis-Besse power plant, a total of 11 munitions round were found in a marsh area near the edge of Lake Erie in the general vicinity of the Locust Point AAAFA. An explosive ordnance team from Wright-Patterson AFB responded and disposed of two 106mm, two 155mm, and seven rocket rounds.

In the 2002 a *Time Critical Removal Action* performed at the Lake Erie shoreline by American Technologies. During the TCRA 3,193 pieces of MEC and MD were identified, including the following: 40mm Projectiles [HE-I, MK-2 w/fuze, Point Detonating (PD), MK-27], 75mm Projectiles (HE, M1, w/fuze, PD, MK-27), 105mm Projectiles (HE, M1, w/fuze, PD, M557), 3-inch Stokes Projectile, and 60mm Mortars (HE, M49A2, w/fuze, PD, M525).

A *Final Report - Assessment of Munitions Contamination at the Former Erie Army Depot Lake Erie Impact Area and Toussaint River* was issued in August 2007 by Environmental Security Technology Certification Program (ESTCP). The Environmental Security Technology Certification Program (ESTCP) pilot program performed an investigation on the beach and in Lake Erie from the mouth of the Toussaint River and the Locust Point firing area (near the Davis-Besse Nuclear Power Plant) to West Sister Island. ESTCP located 300,000 anomalies in Lake Erie (in an 8,000 acre area) and they investigated 186

of the anomalies, 141 were munitions or munitions debris ranging in size from 37mm projectiles to 155mm projectiles. The investigation of the beach and near shore areas resulted in 2,000 anomalies. They investigated 18 of these anomalies and found "9 munitions items (155-mm projectiles and 2.75-inch rockets) as well as 4 non-UXO objects". According to the ESTCP, historical MEC and MC finds for this area include 165mm, 20mm projectile, 105mm projectile; 106mm projectile, 60mm mortar, 3.5inch rocket, M52 fuze, M15 smoke grenade, 105mm projectile, 90mm projectile, 40mm Projectiles, and 75mm Projectiles.

The *Final Site Investigation Report Erie Army Depot*, including the 69.32 acres of Locust Point AAAFA, was completed by Shaw in 2008. The SI included a site reconnaissance of Locust Point AAAFA to look for evidence of MEC. During the SI no samples were collected and no MEC or associated MD was identified within the Locust Point AAAFA property.

(1) MEC ENCOUNTERED: MEC that has been found at Locust Point AAAFA includes 155mm projectiles, 20mm projectile, 2.75-inch rockets, 37mm projectiles, 3-inch Stokes Projectile, 40mm projectiles, 75mm projectiles, 165mm projectiles, M15 Smoke Grenades, M28 3.5-inch Rockets, M333 90mm projectiles, M344 106mm projectiles, M489 105 mm projectiles, M49A2 60mm Mortars, M52 fuze, and M52 fuze.

(2) SAMPLES: None collected

Chemical	Concentration	Media	Location
None.	None.	None.	None.

II. DESCRIPTION OF ON-SITE ACTIVITIES

<input checked="" type="checkbox"/> Walk Through	<input type="checkbox"/> Drive Through	<input type="checkbox"/> Fly Over
<input type="checkbox"/> On-Road	<input type="checkbox"/> Off-Road	<input checked="" type="checkbox"/> On-Path
<input checked="" type="checkbox"/> Off-Path		
<input type="checkbox"/> Other Specify		

Activities/Tasks to be Performed

Reconnaissance

The primary objective is to conduct a visual surface reconnaissance throughout the FUDS, primarily along the Lake Erie shoreline. The reconnaissance has two main objectives:

- Document general site conditions (field logbook, photographs, global positioning system [GPS] waypoints) for Locust Point AAAFA, even if MEC have been documented from previous investigations;
- Identify and locate MEC, MD, and/or other evidence of range activities that may be present in order to test and verify the CSM and to “ground truth” features seen on aerial photographs; and

UXO avoidance will be conducted during all SI field activities. If suspected MEC are observed at any point during field activities, the field team will respond according to the requirements of the SSHP and SSHP Addendum, and make appropriate notifications in accordance with USACE direction (in Appendix B of the SSWP). The team leader will also contact the Shaw Project Manager, and will coordinate with the Shaw Senior UXO Supervisor (Brian Hamilton) for assistance in identifying items. Reconnaissance for the purpose of determining the presence or absence of MEC will be terminated, and further reconnaissance will be limited to the minimum amount necessary to document site conditions and determine appropriate sample locations. If evidence of munitions activity is observed that is inconsistent with the CSM, notification will be made to USACE and Michigan Department of Environmental Quality, and a variance to the SSWP will be submitted to initiate appropriate changes to the PA approach.

The site reconnaissance will be performed by conducting a visual inspection of the ground surface by a field team of two or more persons, including a qualified UXO Technician. The UXO Technician will supplement the visual inspection with the use of a hand-held fluxgate magnetometer in areas where vegetation or soil cover may obscure potential ferrous objects. The path walked during the reconnaissance will be recorded using a hand-held GPS unit.

Site reconnaissance will utilize available aerial photographs and a geographic information system base map developed from the ASR and other sources. The reconnaissance effort will be focused within Locust Point AAAFA in areas where MEC or MC are most likely to be found based on the CSM.

III. SITE PERSONNEL AND RESPONSIBILITIES

Name/Responsibility	Training					
	HAZWOP ER 40-hour	8-hour HAZWOPER refresher	Hazardous Waste Site Supervisor	First Aid	Cardiopulmonary Resuscitation	UXO Specialist
Paul McCarren Field Team Leader/ Site Safety and Health Officer (SSHO)	X	X	X	X	X	
Nicole Sojda Sampler	X	X	X	X	X	
UXO Technician David Watkins (1420), Rob Irons (1137), Jim Bayne (1212), Rueben Rhodes (0169), Ron Stanfield (1161), or Thomas Folger (1752)	X	X		X	X	X

X – Indicates that training is complete and up to date.

IV. HAZARD ANALYSIS

A. Safety and Health Hazards Anticipated:

<input type="checkbox"/> Heat Stress	<input checked="" type="checkbox"/> Cold Stress	<input checked="" type="checkbox"/> Tripping Hazard
<input type="checkbox"/> Noise	<input type="checkbox"/> Electrical	<input type="checkbox"/> Falling Objects
<input checked="" type="checkbox"/> Foot Hazard	<input checked="" type="checkbox"/> Biological	<input type="checkbox"/> Overhead Hazard
<input type="checkbox"/> Radiological	<input type="checkbox"/> Confined Space	<input type="checkbox"/> Water
<input checked="" type="checkbox"/> Explosive	<input type="checkbox"/> Climbing	<input type="checkbox"/> Flammable
<input type="checkbox"/> Other Specify		

B. Overall Hazard Evaluation:

<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	<input type="checkbox"/> Unknown
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JUSTIFICATION:

MEC previously found at the FUDS are considered sensitive.

V. SITE INSTRUCTIONS FOR MEC AVOIDANCE

See Section 4.3 of the SSHP for full scope of MEC avoidance requirements.

- DO NOT touch or move any ordnance items regardless of the marking or apparent condition.
- DO NOT visit an ordnance site if an electrical storm is occurring or approaching. If a storm approaches during a site visit, leave the site immediately and seek shelter.
- DO NOT use radio or cellular phones in the vicinity of suspect ordnance items.
- DO NOT walk across an area where the ground cannot be seen. If dead vegetation or dead animals are observed, leave the area immediately due to potential chemical agent contamination.
- DO NOT drive vehicles into suspected MEC areas; use clearly marked lanes.
- DO NOT carry matches, lighted cigarettes, lighters or other flame producing devices into a MEC site.
- DO NOT rely on color codes for positive identification of ordnance items or their contents.
- Only the on-site UXO Specialist is allowed to approach suspected ordnance items to take photographs, and prepare a full description (take notes of the markings or any other identifiers/features).
- The location of any ordnance items found during the PA should be clearly marked so it can be easily located and avoided.
- Always assume ordnance items contain a live charge until it can be determined otherwise.

Section 4.3 of the SSHP defines on-site MEC avoidance requirements for FUDS properties. In general, the purpose of MEC or anomaly avoidance during PA activities is to avoid any potential surface or subsurface anomalies. Intrusive anomaly investigation is not authorized during MEC

avoidance operations. The reconnaissance and sampling field work shall include a minimum of two people, one of whom shall be a UXO technician. This team will be on-site during all sampling activities. Sampling personnel must be escorted at all times in areas potentially containing MEC until the UXO team has completed the access surveys and the cleared areas are marked. If anomalies or MEC are detected, the UXO team will halt escorted personnel in place, select a course around the item, and instruct escorted personnel to follow. If MEC is encountered, the team will stop work in the vicinity and make notifications as outlined in the Work Plan. The team is not to conduct further investigation or removal of any MEC.

VI. SITE CONTROL AND COMMUNICATIONS

A. SITE WORK ZONES: UXO avoidance will be conducted in accordance with the SSHP and USACE EP 75-1-2 during all PA activities. Rigid demarcation of work zones, e.g., using barricades or caution tape, will generally not be required for this project. The Field Team Leader/SSHO, in consultation with the UXO Technician, will determine the boundary of an Exclusion Zone (EZ) to be established around a specific area of activity, appropriate to the potential hazards. The boundaries may be described by physical features, e.g., fences, tree lines, or topographic features, or may be defined by a radius around the center of activity. The EZ boundary will be verbally communicated to team members, who will maintain a watch to assure that only field team members are within the work zone. If a bystander or intruder approaches the EZ, the field team will cease work and ask the person to remain outside the area. A Contamination Reduction Zone (CRZ) will generally not be required because personnel decontamination is not anticipated. If required, a CRZ will be established in a manner similar to that described for the EZ. The support zone will consist of all portions of the site not defined as an EZ or CRZ.

B. COMMUNICATIONS:

(1) ON-SITE: Verbal communications will be used among team members to communicate to each other on-site. If this communication is not possible, the following hand signals will be used:

GRIP PARTNER'S WRIST OR BOTH HANDS AROUND WAIST – Leave the area immediately.

HAND GRIPPING NOSE – Unusual smell detected.

THUMBS UP – OK, I am alright or I understand.

THUMBS DOWN – No, negative.

(2) OFF-SITE: Off-site communications will be established at the site and may include an on-site cellular phone or the nearest public phone or private phone that may be readily accessed.

☒ Cellular Phone: (513) 300-3562

☐ Public/Private phone

TELEPHONE NUMBERS:	
1. MEDICAL FACILITY (Emergency Care): Magruder Hospital 615 Fulton St Port Clinton, OH 43452	(419) 734-3131
2. MEDICAL FACILITY (Non-Emergency Care): Well at Work 3949 Main St Findlay, OH 45840	(419) 425-5121
3. FIRE DEPARTMENT:	(419) 734-3430 or 911
4. POLICE DEPARTMENT:	(419) 734-3121 or 911
5. POISON CONTROL CENTER	(800) 222-1222
6. USACE MM DC PROJECT MANAGER: John Miller	(402) 995-2735 (office) (402) 350-3735 (cell)
7. USACE DISTRICT PROJECT MANAGER: Dave Dierken	(502) 315-6498 (office) (502) 645-9144 (cell)
8. USACE OE SAFETY: JJ Mars	(402) 995-2287 (office) (402) 740-4979 (cell)
9. SHAW PROJECT MANAGER: Peter Kelsall	(720) 554-8178 (office) (303) 981-8435 (cell)
10. SHAW TECHNICAL LEAD: Paul McCarren	(513) 782-4984 (office) (513) 300-3562 (cell)
11. SHAW FIELD LEADER: Paul McCarren / Nicole Sojda	(513) 782-4984 (office) / (513) 782-4533 (513) 300-3562 (cell) / (513) 255-6663
12. SHAW SAMPLER: Nicole Sojda	(513) 782-4533 (office) (513) 255-6663 (cell)
13. SHAW OE SAFETY: Brian Hamilton	(303) 690-3116 (office) (303) 809-0416 (cell)
14. SHAW UXO TECHNICIANS: David Watkins (#1420), Rob Irons (#1137), Jim Bayne (#1212), Rueben Rhodes (#0169), Ron Stanfield (#1161), or Thomas Folger (#1752) (Contact: Morey Engle)	(303) 690-3870 (720) 480-3204 (cell)
15. SHAW HOTLINE/HELPDESK:	(866) 299-3445
16. SHAW HEALTH AND SAFETY MANAGER: James Joice, CIH	(419) 424-4960 (office) (419) 306-3637 (cell)
17. CORE HEALTH SERVICES:	(877) 347-7429

(3) **EMERGENCY SIGNALS:** In the case of small groups, a verbal signal for emergencies shall suffice. The emergency signal for large groups should be incorporated at the discretion of the UXO Technician.

☒ Verbal ☐ Nonverbal (Specify)

VII. INCIDENT REPORTING

(1) **ACCIDENTS:** Safety-related incidents and accidents will be immediately reported to the Shaw Project Manager, Shaw Health and Safety Manager, Shaw Hotline/Helpdesk, and the USACE Military Munitions Design Center (MM DC) Project Manager. Additional notifications within the USACE organization will be coordinated by the USACE MM DC Project Manager. Additional accident reporting responsibilities of Shaw personnel are described in Section 1.9 of the Accident Prevention Plan.

A copy of the Shaw Incident Notification, Reporting, and Management Procedure will be on site with the field team.

(2) **DIRECTIONS TO THE NEAREST HOSPITAL/MEDICAL FACILITY:**

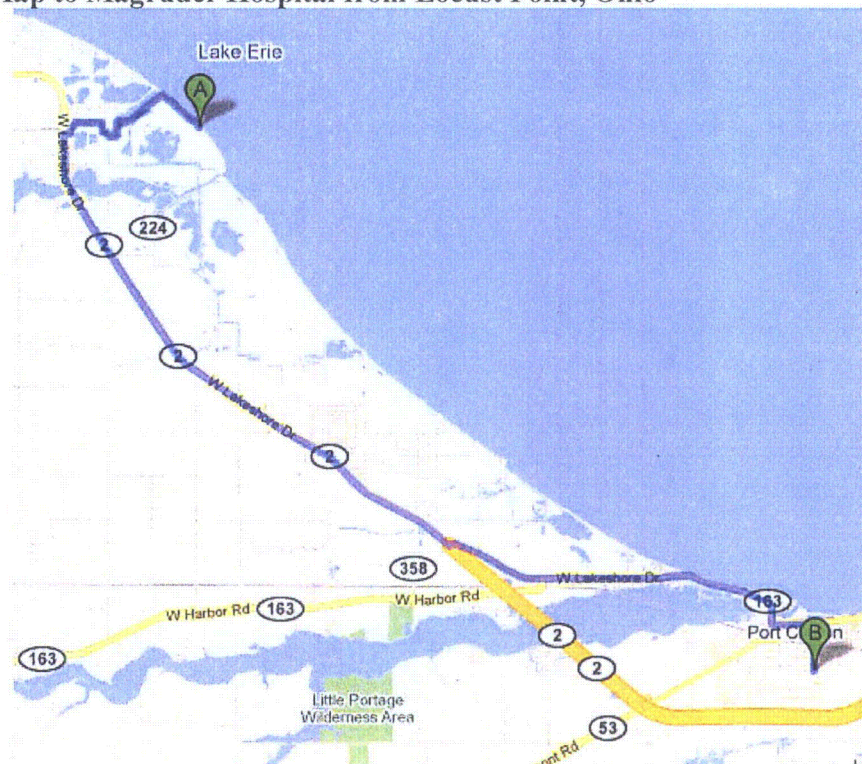
Emergency medical care is available at:

Magruder Hospital
615 Fulton Street
Port Clinton, Ohio 43452
(419) 734-3131

Directions to Magruder Hospital from Locust Point, Ohio (see Figure 1): [16miles ~ 34min]

1.	Head northwest on Sand Beach Rd	1.5 mi
2.	Turn right	0.1 mi
3.	Turn left toward W Lakeshore Dr/OH-2 E	0.5 mi
4.	Turn left at W Lakeshore Dr/OH-2 E	6.6 mi
5.	Turn left at Co Rd 1/W Lakeshore Dr . Continue to follow W Lakeshore Dr	4.0 mi
6.	Slight left at W Perry St	0.5 mi
7.	Turn right at 123/Fulton St . Destination will be on the left	0.5 mi

Figure 1: Map to Magruder Hospital from Locust Point, Ohio



(3) CLINIC FOR NON-EMERGENCY MEDICAL TREATMENT

In the event of a work-related, non-life threatening injury, the following occupational health clinic is approved by Health Resources for medical treatment of Shaw employees. Notifications per section VII. (1), above, and to Health Resources (800-350-4511) are required prior to transporting the employee to the clinic.

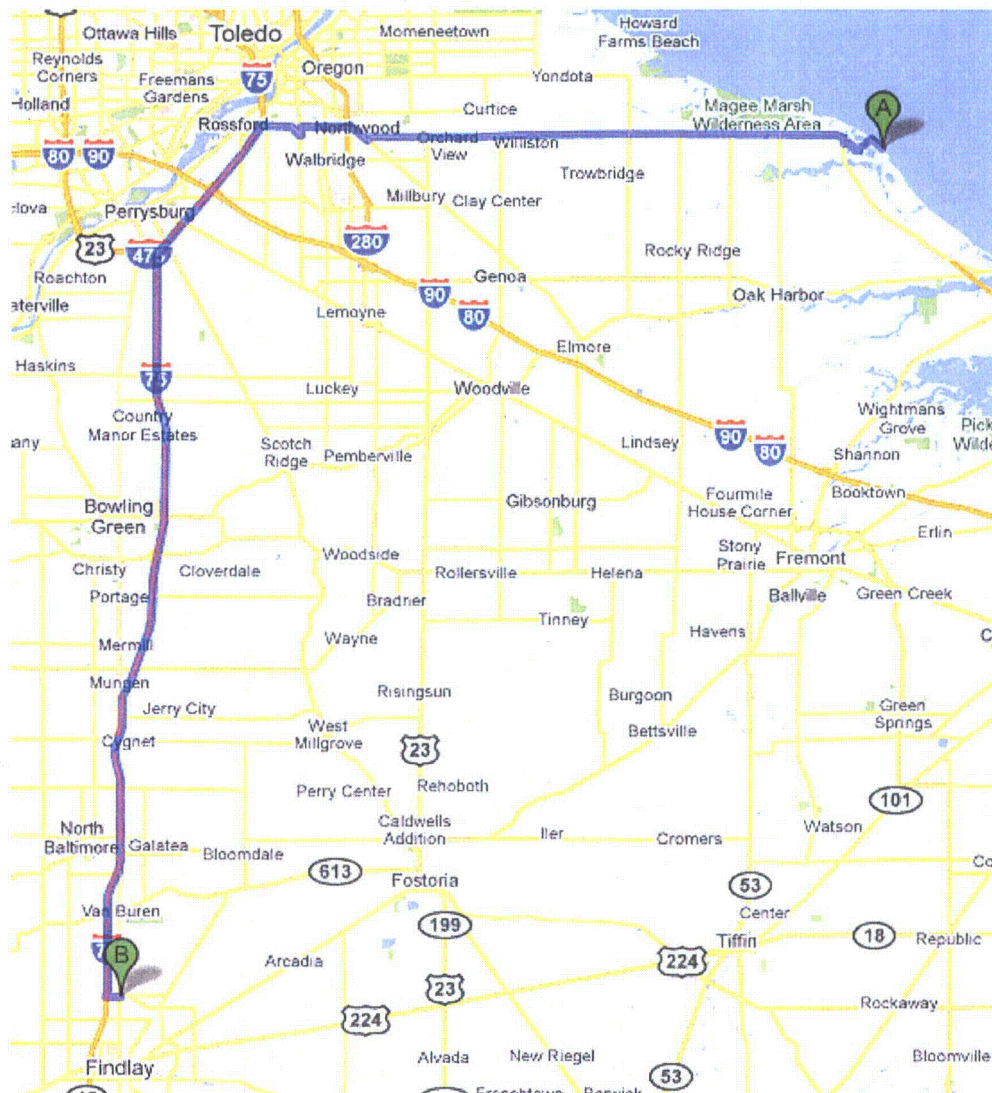
Well at Work
3949 N Main St #D
Findlay, OH 45840
(419) 425-5121

Directions to Well At Work from Locust Point, Ohio (see Figure 2): [65miles ~ 1hr 26min]

1.	Head northwest on Sand Beach Rd	1.5 mi
2.	Turn right	0.1 mi
3.	Turn left	0.1 mi
4.	Take the 1st right toward W Lakeshore Dr/OH-2 W	0.4 mi
5.	Turn right at W Lakeshore Dr/OH-2 W . Continue to follow OH-2 W.	8.4 mi
6.	Turn left at OH-579 W/Williston Rd . Continue to follow OH-579 W.	10.7 mi
7.	Turn right at OH-51 N/Woodville Rd	1.0 mi
8.	Take the 3rd left onto 1391/Wales Rd	1.9 mi

9.	Turn left at 955/E Broadway St	0.4 mi
10.	Take the 1st right onto 1391/Wales Rd. Continue to follow Wales Rd.	1.8 mi
11.	Turn left to merge onto I-75 S toward Dayton	37.6 mi
12.	Take exit 161 toward US-12	0.3 mi
13.	Turn left at Township Hwy 99	0.6 mi
14.	Take the 2nd right onto N Main St. Destination will be on the left.	167 ft

Figure 2: Map to Well At Work from Locust Point, Ohio



VIII. PERSONAL PROTECTIVE EQUIPMENT

For field work to be performed at this site, Level D personal protective equipment (PPE) is required. Level D PPE requirements are defined in Section 5.1.5 of the SSHP (Shaw, 2006). In general, the use of hard hats is required on all USACE work sites, except on MEC-contaminated sites. At this FUDS, hard hats will only be worn if an overhead hazard is identified. If hard hats are worn, they will be securely fastened to the wearers head. Tyvek[®] coveralls and gloves will be worn if poisonous plants, ticks, or other biological hazards are observed in the work area.

Contingency: If a higher level of protection is needed, then stop work, reevaluate safety equipment, and implement. Consult with the Project Health and Safety Manager if needed.

IX. DECONTAMINATION PROCEDURES

Decontamination procedures are not anticipated as Level D PPE is being used. If decontamination is deemed necessary, procedures defined in Section 7.0 of the SSHP in the Work Plan will be followed. Team members are cautioned not to walk, kneel, or sit on any surface with potential leaks, spills, or contamination.

X. TRAINING

All site personnel and visitors will have completed the minimum training required by EM 385-1-1 (USACE, 2003), 29 Code of Federal Regulations 1910.120(e), and DDESB TP18 (DoD, 2004). The Shaw Field Team Leader will verify that all on-site personnel and visitors have completed the appropriate training prior to admitting the individuals on site. Additionally, the UXO Technician assigned to this field reconnaissance will inform personnel before entering, of any potential site specific hazards and MEC safety procedures.

XI. GENERAL

The number of persons visiting the site will be held to a minimum. The UXO Technician can supervise no more than six non-UXO qualified persons while on MEC sites performing intrusive or non-intrusive work per DDESB TP-18. The Field Team Leader (with concurrence from the Health and Safety Manager) may modify this SSHP Addendum if site conditions warrant. All changes to the SSHP require USACE review and concurrence before new procedures can be applied in the field.

XII. SEVERE WEATHER CONTINGENCY PLAN

Personnel should be aware of the possibility for the occurrence of severe weather. Severe weather may include:

- Tornadoes,
- Thunderstorms (lightning, rain, hail),
- High winds, and
- Blizzards.

The Field Team Leader, SSHO, or designee will listen to a weather forecast and watch the Weather Channel or local news program before going to the field. Based on the forecast, field activities could be delayed or suspended early. Additionally, field personnel should be aware of/informed of daily weather forecasts. Local weather broadcasts and information from a severe weather alert radio will be monitored by the Field Team Leader, SSHO, or designee when the likelihood for severe weather exists. The National Weather Service (<http://www.nws.noaa.gov>) should be consulted frequently. Weather conditions will be monitored throughout the day by all field team members.

Generally, cellular telephone communication will be used to alert crews to threatening weather. Necessary precautions or response, directed by the SSHO, will be taken in the event of severe weather. The Field Team Leader will decide what operations, if any, are safe to perform based on existing conditions and anticipated conditions.

The best protection against most severe weather episodes is to avoid them. This means seeking shelter before the storm hits.

TORNADO SAFETY

The Field Team Leader, SSHO, or designee will identify the nearest tornado shelter prior to beginning site operations. The location and route will be discussed in the initial safety briefing, repeated at least once a week and discussed when new personnel arrive onsite.

When a tornado has been sighted, go to the identified tornado shelter immediately. If in a trailer or vehicle, get out immediately and go to a tornado shelter immediately. Do not attempt to out-drive a tornado since they are erratic and move swiftly.

In the event you do not have time to go to the identified tornado shelter, personnel should take cover in a basement or interior room of a strong building, ditch or culvert. If you take cover in a building:

- Go to the basement or storm cellar. If there is no basement, go to an interior room on the lower level (bathrooms, closets, interior hallways); interior hallways on the lowest floor are usually safest.
- Get under a piece of sturdy furniture such as a workbench or heavy table or desk and hold on to it.
- Use arms to protect head and neck.
- Stay away from windows, doors, and outside walls.

If you take cover in a ditch or culvert:

- Lie and shield your head with your hands.
- If in a car, get out and take shelter in a nearby building.
- Be aware that ditches and culverts may fill up with water quickly and use these as shelters as a last resort.

LIGHTNING SAFETY

When clouds with dark bases and wind speeds pick up, anticipate thunderstorms and lightning. Those who have been struck by lightning generally did not seek cover in a timely fashion.

The "flash/bang" (f/b) technique of measuring the distance to lightning will be reviewed with all personnel. The f/b technique is defined as: for each 5 seconds from the time of observing the lightning flash to hearing the associated thunder, the lightning is 1 mile away. All outside activities will be suspended when a lightning flash is immediately in the area or the f/b measuring 30 seconds (6 miles away) is noted. Personnel will gather in the safe area for a head count and further instructions.

Safe areas include:

- Fully enclosed metal-topped vehicles with windows up.
- Substantial and permanent buildings.

Unsafe areas include:

- Small structures including huts and rain shelters.
- Nearby metallic objects like fences, gates, instrumentation and electrical equipment, wires, and power poles.

The following shall also be avoided when lightning is in the area:

- Tall isolated objects (for example trees),
- High ground,
- Open fields,
- Water,
- Using hard-wired telephones and headsets, and
- Heavy equipment.

If hopelessly isolated from shelter during close-in lightning, adopt a low crouching position with feet together (up on toes, if possible) and hands on ears. If hair stands on end or rises on back of neck, a lightning strike is imminent.

Remember the warning phrase from the National Lightning Safety Institute: "If you can see it (lightning), flee it; if you can hear it (thunder), clear it."

People who have been struck by lightning do not carry an electrical charge and are safe to handle. Apply first aid immediately, if you are qualified to do so. Get emergency help promptly.

Outdoor activities may resume when 30 minutes has elapsed since the last observable f/b equaled 30 seconds or greater.

XIII. VENOMOUS SNAKE AVOIDANCE

Personnel conducting investigations in rural areas have the potential to come in contact with snakes. While most snakes are harmless and are generally a sign of a healthy ecosystem, two families of venomous snakes are native to the United States. The first family of venomous snakes is that of the pit vipers, which includes rattlesnakes, copperheads, and cottonmouths. The other family of venomous snakes includes two species of coral snakes found chiefly in the southern states.

For people operating in rural areas, it may be impossible to completely prevent contact with venomous snakes. However, there are several precautions that can lower the risk of being bitten:

- Be aware of the types of snakes that may exist in your field area, the habitats they prefer, and their seasonal occurrence. Within "snake season," review potential hazards each day and/or each time you move into a new area.
- Leave snakes alone. Many people are bitten because they try to kill a snake or get a closer look at the snake.
- Use caution when walking in high grass areas. Wear high-top leather boots (greater than or equal to 8 inches) or snake chaps depending on the geographical location and season.
- Remain on hiking paths or cleared walking areas as much as possible.
- Keep hands and feet out of areas you can't see. Don't pick up rocks or other ground items if it can be avoided.
- Be cautious and alert when climbing rocks.
- Make noise while walking through brushy weeded areas. Vibrations may cause snakes to leave the area.
- If a snake is observed, give it a wide berth of approximately 6 feet. Leave it alone and don't try to catch it or scare it off.

If a person is bitten by a snake, some basic steps should be taken:

- Call 911 or seek immediate medical care.
- Wash the bite with soap and water if possible.
- Immobilize the bitten area and keep it lower than the heart.

Attempt to identify the snake if this can be done without putting a person at risk. Type of information to be collected would include the species of snake if known, its size, coloration, length, and a description of the head. All of this information would be useful to the emergency room personnel or the local poison control center in determining if the snake was venomous.

SAFETY BRIEFING CHECKLIST

SITE NAME: Locust Point AAAFA.	DATE/TIME: /
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GENERAL INFORMATION

(Check subjects discussed)

- ☐ PURPOSE OF VISIT
- ☐ IDENTIFY KEY SITE PERSONNEL
- ☐ TRAINING AND MEDICAL REQUIREMENTS

SPECIFIC INFORMATION

- ☐ SITE DESCRIPTION/PAST USES
- ☐ RESULTS OF PREVIOUS STUDIES
- ☐ POTENTIAL SITE HAZARDS
- ☐ MEC SAFETY PROCEDURES
- ☐ SITE SOPs
- ☐ SITE CONTROL AND COMMUNICATIONS
- ☐ EMERGENCY RESPONSE
 - ☐ LOCATION OF FIRST AID KIT
 - ☐ EMERGENCY PHONE NUMBERS AND LOCATION
 - ☐ LOCATION AND MAP TO NEAREST MEDICAL FACILITY
 - ☐ PPE AND DECONTAMINATION

Stress the following during the briefing: If hazardous conditions arise, stop work, evacuate the area, and notify the SSHO and Shaw PM immediately.

PLAN ACCEPTANCE FORM

**SITE SAFETY AND HEALTH PLAN ADDENDUM
FOR**

Site Name: Locust Point Anti-Aircraft Artillery Firing Area
Location: Locust Point, Ohio

I have read and agree to abide by the contents of the Site Safety and Health Plan and this Addendum and I have attended the Safety Briefing for the aforementioned site.

NAME (PRINTED)	OFFICE	SIGNATURE	DATE

Person presenting the safety briefing:

SIGNATURE

DATE

ATTACHMENT 3
ACTIVITY HAZARD ANALYSIS

RISK MANAGEMENT PROCESSES

An activity hazard analysis (AHA) has been conducted and documented as outlined below for each activity warranted by the hazards associated with the activity. For this project, the following activity hazard analyses (AHA) have been prepared for all anticipated field operations:

- Site Mobilization/Preparation and MEC Sweeps

Should conditions, equipment, or types of operations change during the course of the project work, the Corporate Health and Safety Manager will update an existing AHA for continuing work, or prepare a new one for new types of operations.

Risk management is and will continue to be integrated into the planning, preparation, and execution of work at the Locust Point AAAFA site. Risk management is a dynamic process, and is continuously improved upon, as personnel become more familiar with the site operations, equipment, environment, etc. Personnel are urged to continuously identify hazards and assess accident risks. Once identified, these hazards will be brought to the attention of the SUXOS/UXOSO. Control measures for all hazards will be developed and coordinated. All personnel are responsible to continuously assess variable hazards and implement risk controls.

ACTIVITY HAZARD ANALYSIS		
ACTIVITY: Site Mobilization/Preparation and MEC Sweeps		ANALYZED BY/DATE:
PRINCIPLE STEPS	POTENTIAL SAFETY/ HEALTH HAZARDS	RECOMMENDED CONTROLS
Perimeter Survey and MEC Sweeps	Unfamiliarity with site and potential hazards, emergency procedures and key personnel.	Personnel shall attend initial briefing covering safety and health aspects outlined in the approved APP/SSHP. Employees shall be familiar with the location of the closest hospital and approved occupational clinic.
	Biological hazards	UXOSO will walk site and identify potentially hazardous areas and these will be identified in the daily tailgate briefing. Site personnel will wear protective clothing to prevent exposure to biological hazards such as poison ivy. Personnel will exercise caution when moving obstacles, items, etc., that could be homes to snakes, spiders, or other animals or insects. Personnel shall know how to recognize poisonous plants native to the area.
	Cold stress injuries	UXOSO will implement cold stress/injury control program (when daily temperature is predicted to be less than 40°F). UXOSO will monitor weather conditions and stress symptoms in workers.
	Tripping hazards	UXOSO will ensure that workers are aware of potential slippery surfaces and tripping hazards. Personnel will inform SUXOS or UXOSO of any observed potential slip, trip, or fall hazards. Use the HARP process to identify potential terrain hazards and implement controls.
	Faulty equipment	Equipment shall undergo a general inspection prior to use. GPS and metal detectors shall be function tested periodically throughout the day. Communication devices shall be checked for functionality. Damaged equipment shall be removed from service and tagged defective or do not use. Follow manufacturer's instructions for equipment checks.
	Change of site conditions	Report changes to site conditions that may create unsafe working environments. Use the JSA and HARP processes to mitigate potential unsafe situations.

PRINCIPLE STEPS	POTENTIAL SAFETY/ HEALTH HAZARDS	RECOMMENDED CONTROLS
	Injury from vehicle or equipment traffic in work area	A ground guide will be used when backing. All equipment will have back up alarms. Equipment will be immediately grounded if unauthorized personnel enter the work zone. If there are overhead power lines in the vicinity of the work area, a ground guide will be used to ensure that equipment maintains proper safe distances.
	Injury from hand tool usage	UXOSO and SUXOS will ensure that all tools used on site are in proper working order and are in good condition. Workers will inform supervisors if tools require repair or replacement and no damaged equipment will be used until repaired or replaced.
	Pinch points	Keep hands, fingers, and feet clear of moving/suspended materials and equipment. Beware of contact points. Stay alert at all times!
	Hazard communication	Label all containers as to contents and dispose of properly. Ensure MSDSs are available for hazardous chemicals used on site. Maintain a current list of any hazardous materials brought on site in accordance with HS060 Hazardous Communication Program.
	Lighting	Adequate lighting will be provided to ensure a safe working environment.
	Thunderstorms, tornadoes or hazardous weather	Listen to radio or TV announcements for pending weather information. Cease field activities during thunderstorm, tornado warnings or hazardous weather. Seek shelter. Do not try to outrun a tornado.
	Stings from bees, wasp or ants	Identify infested areas to the site supervisor. Workers who are allergic or capable of allergic reactions to bee, wasp, or ant stings or bites shall notify their supervisor(s). Evaluate need for sensitive workers to have prescribed antibiotic or medicine to combat onset of symptoms.
	Cut hazards	Use care when handling glassware. Sweep or scoop broken glass. Do not use hands to pick up glass. Wear adequate hand protection when handling items that can result in cut or puncture injuries.
	Repetitive motion	Alternate magnetometer use between left and right hands to avoid repetitive motion trauma. Change gripping position occasionally to minimize hand and wrist stress. Use of ergonomically designed handles on equipment is suggested.

PRINCIPLE STEPS	POTENTIAL SAFETY/ HEALTH HAZARDS	RECOMMENDED CONTROLS
	Sloped, uneven or hazardous terrain	Traverse terrain carefully. Use footwear that provides ample grip to the terrain. Consider alternative work locations when terrain becomes hazardous from weather or other conditions. Apply appropriate PPE to the task suitable for worker protection. Flag or cover inconspicuous holes to protect against falls. Be cognizant of potential sink holes or manholes that may have compromised covering.
	Contamination with potentially contaminated materials	Use PPE as specified in the APP/SSHP. Use the buddy system. Do not work in areas without PPE where airborne concentrations may exceed action levels. MSDSs shall be obtained for chemicals brought on site. MSDSs shall be reviewed with project personnel before using the chemical material.
	UXO	Only qualified UXO specialists will perform UXO surface clearance and/or anomaly investigation. Do not handle or disturb suspect items that may contain chemical agent. Practice avoidance of anomalies at all times. Remember the potential for chemical agents exist with UXO until confirmed by designated authorities.
	Chemical warfare material	If suspect CWM is encountered STOP WORK IMMEDIATELY, RECOGNISE, RETREAT AND REPORT. Secure the area from an upwind location until appropriate authorities arrive.
	Foot or ankle hazards	Appropriate composite toe/shank work boots shall be utilized when personnel are exposed to potential foot hazards. Footwear shall provide appropriate ankle stability and protection.
	Extended periods of walking and standing	Schedule routine breaks as necessary to help mitigate worker fatigue. Choose clothing that will aid in minimizing worker fatigue. Carry only essential items when working in remote locations. Eat healthy and get necessary rest/sleep periods to combat worker fatigue.
	Contact with moving equipment	Workers exposed to moving equipment or vehicles shall wear ANSI/ISEA approved high visibility apparel. Where feasible, establish work zones and lay down areas away from moving equipment. Guarding or barricades may be necessary depending on site specific conditions.

PRINCIPLE STEPS	POTENTIAL SAFETY/ HEALTH HAZARDS	RECOMMENDED CONTROLS
	Poisonous plant oils or resins	Workers shall be trained to identify poisonous plants native to the area. Appropriate PPE shall be used when exposure to poisonous plant material is possible. Equipment or tools shall be cleaned as often as necessary to prevent transfer of poisonous plant oils or resins. Wash clothing that may be contaminated separately for non contaminated clothing. Evaluate use of plastic bags or visquene to cover equipment for protection from poisonous plants. Poisonous plant oils or resins can persist in the environment for many years and persist in stems and roots even in dormant growing seasons.
	Treatment of injuries when bodily fluid is present.	Follow universal precautions when rendering first aid or emergency treatment. Review and under the provisions of HS512, Handling of Blood or Other Potentially Infectious Material.
	Unauthorized personnel	Establish demarcated work zones when necessary to warn unauthorized personnel from entering.
	Emergency situations	Be familiar with the emergency procedures established onsite. Contact the local emergency responders and offer to participate in coordination meeting. Keep emergency numbers posted or readily available where phones are located.
	Explosives	Explosives safety shall be achieved by following all applicable DOD requirements including but not limited to: EM-385-1-97, DDESB TP-18 and EM-385-1-1,
	Animals (if applicable)	Ask owners to keep pets secured. Avoid petting or feeding animals. If a domesticated dog appears to become aggressive, do not run or make loud noise. Attempt to remain calm. If pet owner is in the vicinity try to get owners attention so they can restrain the pet.

PRINCIPLE STEPS	POTENTIAL SAFETY/ HEALTH HAZARDS	RECOMMENDED CONTROLS
	Operation of motor vehicles and trucks – general	<p>All company owned, leased, or rented vehicle operations shall comply with the requirements of Shaw Environmental, Inc. (Shaw) Procedure HS800, "Motor Vehicle Operation: General Requirements." All company owned, leased, or rented commercial vehicle operations shall comply with the requirements of Shaw Procedure HS810, "Commercial Motor Vehicle Operation And Maintenance."</p> <p>Subcontractors operating motor vehicles shall comply with all federal, state, and local traffic regulations. Subcontractors shall only use vehicles, which are in good condition and safe to operate.</p> <p>Subcontractors shall inspect vehicles routinely used on a weekly basis and submit the inspection documentation to the Site Safety and Health Officer. All personnel shall drive defensively, take adequate rest breaks, and wear seat belts while vehicles are in motion. Use a spotter to help guide vehicles through tight areas.</p>
	Operation of motor vehicles and trucks – backing	<p>Back into parking spaces upon arrival, whenever possible.</p> <p>Walk around the vehicle before backing to identify any new conditions or obstructions. Set out orange cone system to require truck operator to walk around truck and collect cone(s) prompting area inspection prior to moving truck. Use a spotter when backing whenever possible. Understand hand signals. Sound horn prior to backing. Check the rear-view and side mirrors prior to backing. (Note: All vehicles, other than automobiles, should have small convex mirrors attached to the side mirrors.) Back slowly in areas of obstructed vision. Anticipate others who may be backing out into your pathway and adjust accordingly.</p>
	Operation of motor vehicles and trucks – blind spots	<p>Become familiar with any blind spots associated with your vehicle. Adjust mirrors properly. Make sure you use your directional signals.</p> <p>Always look over your shoulder to ensure that the lane is clear when changing lanes. Become extra cautious when approaching other drivers' blind spots.</p>

PRINCIPLE STEPS	POTENTIAL SAFETY/ HEALTH HAZARDS	RECOMMENDED CONTROLS
	Operation of motor vehicles and trucks – vehicle loading	<p>Do not overload the vehicle. Secure all equipment within the body of the vehicle. Do not block side view mirrors with load. Do not transport U.S. Department of Transportation manifested hazardous materials without a commercial driver's license with appropriate endorsements. All hazardous material shipments must have prior approval from the Project Manager and Health and Safety Manager.</p> <p>Vehicles carrying loads that project beyond the sides of rear of the vehicle shall carry a red flag not less than 144 square inches at or near the end of the projection. Dispatch all equipment and personnel with proper forms and identification.</p>
	Operation of motor vehicles and trucks – speeding	<p>Obey all posted speed limits.</p> <p>Radar detectors are prohibited in all Shaw company owned, leased, or rented vehicles. Reduce travel speed during hazardous conditions (e.g., rain, fog, and snow). Maintain 2 seconds between vehicles under normal conditions; maintain 3 seconds behind motorcycle; 7 seconds pulling a trailer behind a semi-truck; and 6 seconds behind a semi-truck, no trailer; add additional seconds for rain, fog, etc.</p> <p>Determine whether your vehicle has anti-lock brakes. If it does, read the operators manual to determine how to use them properly. Test the brakes on a wet roadway so that you will know how they perform under emergency conditions.</p> <p>Always leave yourself an "out" during travel. When stopping, make sure that you leave enough distance between you and the car in front of you. You should be able to see the rear tires of the vehicle in front, when stopped. When at a red light, and it turns green, use the "delayed start" technique, by counting to three before you take your foot off the brake. DO NOT TAILGATE.</p>

Equipment To Be Used	Inspection Requirements	Training Requirements
Metal Detectors GPS Unit PPE Vehicles	<p>The UXOSO will inspect the entire work area daily. Workers will inspect all equipment each day prior to use. If, during inspection or during use, equipment fails to function properly, it should be turned in for repair/replacement. All safety guards on equipment will remain in place. If any safety device on equipment is missing, that piece of equipment will be placed out of service until it is repaired/replaced. All construction vehicles in use will be checked at the beginning of each shift to assure that the following parts, equipment, and accessories are in safe operating condition and free of apparent damage that could cause failure while in use: service brakes, including trailer brake connections; parking system (hand brake); emergency stopping system (brakes); tires; horn; steering mechanism; coupling devices; seat belts; operating controls; and safety devices. All defects will be corrected before the vehicle is placed in service. If during inspection or during use, equipment fails to function properly, the equipment will be tagged and turned in for repair/ replacement.</p>	<p>All on-site personnel will be current in OSHA training in accordance with 29 CFR 1910.120 (HAZWOPER) and be enrolled in a medical monitoring program with a current occupational physical with physician's certificate in accordance with 29 CFR 1910.120(f). Additionally, site personnel will receive site-specific and hazard communication training in accordance with the APP/SSHP. A minimum of two people trained in First Aid and CPR will be on site during operations.</p>

ATTACHMENT 4
SHAW POLICIES AND PROCEDURES

(available upon request)