

Appendix A

Site Entry Sign-In Forms, Health and Safety Sign-In Forms, Field
Activity Daily Reports and Demobilization Report

SSHP
Acknowledgement
Sheet

Daily Sign-In Sheets

6 August 2009 through 27 August 2009

APPENDIX B

SITE ENTRY AND EXIT LOG

Project: Phase IV RI/FS Activities

Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York

ERT Project No.: 3047

Date	Name	Representing	Date/Time			
			In	Out		
7/7/2009	[REDACTED]	ERT	0630	1730		
7/7/09		Cabrera	0630			
7/7/09		D & M	0630			
7/7/09		D & M	0630			
7/7/09		ERT	0630			
7/7/09		USACE	0710			
7/7/09		USACE	0710			
7-7-09		USACE	0710			
7-7-09		ERT	0630			
7-7-09		EA	0630		1730	

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Project: Phase IV RI/FS Activities

Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York

ERT Project No.: 3047

Date	Name	Representing	Date/Time		
			In	Out	
7/8/2009	[REDACTED]	ERT	0630	1900	
7/8/09		EA	0630	T	
7/8/09		ERT	0630	T	
7/8/09		Cabrera/ERT	0630	T	
7/8/09		PW	0640	T	
7/8/09		DMM	0655	T	
7/8/09		DM	0656	1900	
7/8/09		USACE	0740	1600	
7/8/09		USACE	0740	1600	
7/8/09		ERT	0730	1900	
7/8/09		EA	1028	1900	

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SITE ENTRY AND EXIT LOG

Project: Phase IV RI/FS Activities

Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York

ERT Project No.: 3047

Date	Name	Representing	Date/Time		
			In	Out	
7-9-2009	[REDACTED]	ERT	0620	1835	
7/9/09		ERT	0620	1835	
7/9/09		ERT	0620	1850	
7/9/09		EA	0630	1850	
7/9/09		EA	0630	1230	
7/9/09		ERT/Cabrera	0630	1850	
7/9/09		PW	0630	1850	
7/9/09		D + M	0700	1600	
7-9-09		D + M	700	1600	
19-JUL-2009		USACE	08:00	1100	
19-JUL-09		USACE	08:25	1700	

APPENDIX B

SITE ENTRY AND EXIT LOG

Project: Phase IV RI/FS Activities
 Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York
 ERT Project No.: 3047

Date	Name	Representing	Date/Time	
			In	Out
7/20/09		ERT	0830	1830
7/20/09		PW	0700	1730
7-20-09		PARRATT WOLFF	0700	1730
7-20-09		Cabrera	0630	1730
7-20-09		ERT	0630	1830
7-20-09		CA	0630	1730
7-20-09		CA	0630	1830
7-20-09		Metro	7:30	1500
7-20-09		Metro	7:30	1500
7-20-09		metro	7:30	1500
7-20-09		Metro	8:15	1500
7-20-09		Metro	8:17	1500
7/20/09		Quessa	8:17	1500

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SITE ENTRY AND EXIT LOG

Project: Phase IV RI/FS Activities

Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York

ERT Project No.: 3047

Date	[REDACTED]	Representing	Date/Time	
			In	Out
7/20/09	[REDACTED]	Metro	7:30	1500
7/20/09	[REDACTED]	QuEST	7:30	1500
7/20/09	[REDACTED]	USACE	8:45	16:45
7/20/09	[REDACTED]	USACE	8:45	17:30
7/21/09	[REDACTED]	ERT	0630	1515
7/21/09	[REDACTED]	ERT/CARRERA	0630	1330
7/21/09	[REDACTED]	ERT	0630	1515
7/21/09	[REDACTED]	ERT	0630	1330
7/21/09	[REDACTED]	EA	0630	1420
7/21/09	[REDACTED]	P.W.	0700	1420
7/21/09	[REDACTED]	P.W.	0700	1420
7/21/09	[REDACTED]	METRO	0700	1300
7/21/09	[REDACTED]	METRO	0700	1300

APPENDIX B

SITE ENTRY AND EXIT LOG

Project: Phase IV RI/FS Activities

Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York

ERT Project No.: 3047

Date	Name	Representing	Date/Time	
			In	Out
7/21/09		METRO	0700	1300
7/21/09		METRO	0700	1300
7/21/09		METRO	0700	1300
7/21/09		METRO	0700	1300
7/21/09		QUEST	0700	1300
7/21/09		USACE	0715	1420
7/21/09		USACE	0910	1420
7/22/09		ERT	0640	1430
7/22/09		ERT	0640	0830
7/22/09		QUEST	0700	1330
7/22/09		METRO	0700	1330
7/22/09		METRO	0700	1330
7/22/09		METRO	0700	1330

APPENDIX B

SITE ENTRY AND EXIT LOG

Project: Phase IV RI/FS Activities

Site: Lake Ontario Ordnance Works (LOOW), Niagara County, New York

ERT Project No.: 3047

Date	Name	Representing	Date/Time	
			In	Out
7/24/09	[REDACTED]	METRO	0700	
7/24/09		METRO	0700	
7/24/09		METRO	0700	
7/24/09		METRO	0700	
7/24/09		METRO	0700	
7/24/09		METRO	0700	
7/24/09		METRO	0700	
7/24/09		QUEST	0700	
7/24/09		ELI	0655	
7/24/09		USACE-URB	0745	

Daily Reports

6 August 2009 through 27 August 2009

Date: 7/8/2009		Site: Former LOOW WWTP - Town of Lewiston Property													
Weather: Partly cloudy		Location: Lewiston, NY													
Temperature: 62° F		Project: Phase IV RI Field Activities - Mobilization 1													
USACE Representatives: Jeff Hall, Neil Miller															
		Environmental Monitoring Equipment:			Isobutyl Calibration	Ambient Air Calibration	Background	Cs-137 Source Calibration	Th-230 Source Calibration	Tc-99m Source Calibration					
Contractors: number of personnel		PID (ppm)			100	0	NA	NA	NA	NA					
ERT: 3		Ludlum 19-1 (µR/hr)			NA	NA	6	38	NA	NA					
EA: 2		Ludlum 19-2 (µR/hr)			NA	NA	7	38	NA	NA					
Cabrera: 1		Ludlum 44-10 w/2221 NaI Probe (cpm)			NA	NA	3482	40617	3525	3624					
DM Landscavation: 2															
Parrat Wolf: 1															
Activities:															
Cleared vegetation and debris from Areas F, G and H															
Located two uncovered manholes in Area H - one south of the Acid Neutralization Building and one north of the Acid Neutralization Building															
Completed sampling and screening of surface soil at locations 101 to 240 along TNT lines. No TNT detected during Drop Ex screening.															
Radiological impact detected (50,000 cpm) above background. Location: 1173983.25N, 1040333.79E (adjacent to the northwest corner of Acid Neutralization Building)															
EA conducted Senior Technical Audit of field health and safety procedures, field sample collection and field sample management practices.															
Modern delivers 6 CY trash dumpster															
Samples Collected: abbreviated sample designations listed below															
B(+5)600(0.5)		C(+50)600(0.5)		C700(0.5)		F(+50)300(0.5)		G400(0.5)		G500(0.5)	BP-7(0.5)	BP-8(0.5)	BP-10(0.5)	Trip Blank	
B(+5)600(8)		C(+50)600(8.5)		C700(14)		F(+50)300(11)		G400(11)		G500(7')	BP-7(11.5)	BP-8(11)	ERB-1	Dup01	
Health and Safety Incidents:															
None. No elevated organic vapors in breathing zone.															
Changes Concurred w/ USACE Representatives:															
1. USACE concurs to skip 13 TNT DropEx sample location which fell within the Western Drainage Ditch, due to concerns of disturbing the area prior to analytical sampling.															
2. USACE concurs to discard extra soil cores to the ground surface if PID impacts, visual impacts and odorous impacts are not detected, due to clay soil borings swelling and closing prior to completing boring location. All soil borings with any impact will still be containerized for offsite disposal along with decontamination water.															
3. USACE concurs with extra soil boring locations along TNT Line after completing the DropEx field screen sampling with no positive detections. (8) locations selected for lab sample collection: (2) adjacent to the manhole, (2) adjacent to the northern access point, (2) adjacent to the southern access point and (2) within the former Mixing House footprint.															

Date: 7/9/2009		Site: Former LOOW WWTP - Town of Lewiston Property										
Weather: Sunny		Temperature: 54° F										
USACE Representatives: Jeff Hall, Sean Andrews		Location: Lewiston, NY										
		Project: Phase IV RI Field Activities - Mobilization 1										
					Cs-137	Th-230						
Contractors: number of personnel		Environmental Monitoring Equipment:	Isobutyl Calibration	Ambient Air Calibration	Background	Source Calibration	Source Calibration	Tc-99m Source Calibration				
ERT: 3		PID (ppm)	98	0	NA	NA	NA	NA				
EA: 2		Ludlum 19-1 (µR/hr)	NA	NA	6	38	NA	NA				
Cabrera: 1		Ludlum 19-2 (µR/hr)	NA	NA	7	38	NA	NA				
DM Landscavation: 2		Ludlum 44-10 w/2221 Nal Probe (cpm)	NA	NA	3982	40590	3530	3786				
Parrat Wolf: 1												
Activities:												
Secured all covers over openings placed on vaults/pits 4' x 8'. Two stairways greater than 4' x 8' remain open on the former Pump House slab. ERT will acquire necessary materials to cover and secure the two stairwells.												
Continued to collect soil samples from the systematic and biased locations. Samples collected are detailed below												
Samples Collected: abbreviated sample designations listed below												
F400(0.5)	F500(0.5)	G700(0.5)	F(+50)600(0.5)	F700(0.5)	DUP-02	TNT-E640(0.5)	TNT-C640(0.5)	TNT-B510(0.5)	TNT-D510(0.5)	E500(0.5)	DUP-03	E400(0.5)
F400(11)	F500(13.5)	G700(12)	F(+50)G600(6)	F700(12)	ERB-02	TNT-E640(14)	TNT-C640(14)	TNT-B510(15)	TNT-D510(14)	E500(16)	DUP-04	E400(11)
Trip Blank	BP-11(0.5)											
Health and Safety Incidents:												
None. No elevated organic vapors in breathing zone.												
Changes Concurred w/ USACE Representatives												
1. USACE requests that ERT provide secure covers for two stairwells larger than 4' x 8', located on the former Pump House slab. ERT concurs with the potential hazard and will obtain extra materials necessary to secure the two areas.												
2. After receiving word from ACM contractors that the start date for the ACM removal will be delayed from 7/13/09 to 7/20/09, USACE and ERT decide to delay all remaining site activities after 7/10/09 to 7/20/09.												
3. Due to characteristics of the soil, consisting of a very firm and expansive clay, at the town of Lewiston property, and repeated refusal of the direct-push equipment, USACE requests that ERT mobilize a drill rig to complete the sample locations adjacent to the Acid Neutralization Building and the sample locations allocated along the TNT line.												

Date: 7/10/2009		Site: Former LOOW WWTP - Town of Lewiston Property								
Weather: Partly cloudy		Temperature: 65° F								
USACE Representatives: Jeff Hall, Neil Miller, Andrew Lenat		Location: Lewiston, NY								
		Project: Phase IV RI Field Activities - Mobilization 1								
Contractors: number of personnel		Environmental Monitoring Equipment:			Isobutyl	Ambient Air	Cs-137	Th-230	Tc-99m	
					Calibration	Calibration	Source	Source	Source	
ERT: 2		PID (ppm)			100	0	NA	NA	NA	
EA: 1		Ludlum 19-1 (µR/hr)			NA	NA	7	38	NA	
Cabrera: 1		Ludlum 19-2 (µR/hr)			NA	NA	7	38	NA	
DM Landscavation: 2		Ludlum 44-10 w/2221 NaI Probe (cpm)			NA	NA	3580	40447	3592	
Parrat Wolf: 1										
Activities:										
Continued sampling at proposed locations using direct push methodology										
ERT collected samples within the Western Drainage Ditch at four locations and split the samples with the USACE FUSRAP team										
USACE FUSRAP team collected surface water samples from the Western Drainage Ditch										
Samples Collected: abbreviated sample designations listed below										
C400(0.5)	04(0.5)	D400(0.5)	C(+50)300(0.5)	D(+50)300(0.5)	BP05(0.5)	B(+50)500(10.5)	E(+50)600(0.5)	E(+50)300(0.5)	BP03(0.5)	DUP-05
C400(12)	04(11)	D400(11.5)	C(+50)300(11)	D(+50)300(11.5)	B(+50)500(0.5)	BP04(0.5)	E(+50)600(7)	E(+50)300(3)	Trip Blank	ERB-03
Health and Safety Incidents:										
None. No elevated organic vapors in breathing zone.										
Changes Concurred w/ USACE Representatives:										
1. USACE would like to return to the two sampling locations along the TNT line when the HAS auger rig is onsite the week of July 20th. ERT concurred that the two locations, associated with the northern entry point created during the TNT Line IRA, could be revisited to ensure that the base of the TNT Line is reached.										

Date	7/22/2009	Site	Former LOOW WWTP - Town of Lewiston Property					
Weather	Cloudy	Location	Lewiston, NY					
USACE Representatives	Jeff Hall	Temperature	63° F					
		Project	Phase IV RI Field Activities - Mobilization 1					
Contractors	number of personnel	Environmental Monitoring Equipment	Isobutyl Calibration	Ambient Air Calibration	Background	Cs-137 Source Calibration	Th-230 Source Calibration	Tc-99m Source Calibration
ERT	2	PID (ppm)	100.3	0	NA	NA	NA	NA
EA	0	Ludlum 19-1 (µR/hr)	NA	NA	7	36	NA	NA
Cabrera	0	Ludlum 19-2 (µR/hr)	NA	NA	6	37	NA	NA
DM Landscavation	0	Ludlum 44-10 w/2221 NaI Probe (cpm)	NA	NA	NA	NA	NA	3696
Parrat Wolf	0							
Quest Environmental	1	*Note Ludlum 44-10 w221 NaI Probe (cpm) malfunctioned. Rather than terminate work, USACE provided replacement equipment						
Metro Environmental	6							
Activities								
Metro Environmental began removing ACM from within the building. Quest performed monitoring.								
Samples Collected abbreviated sample designations listed below								
Health and Safety Incidents								
None.								
Changes Concurred w/ USACE Representatives								
NA								

Date 7/23/2009		Site Former LOOW WWTP - Town of Lewiston Property						
Weather Cloudy/Heavy Rain		Location Lewiston, NY						
Temperature 63° F		Project Phase IV RI Field Activities - Mobilization 1						
USACE Representatives Jeff Hall								
Contractors	number of personnel	Environmental Monitoring Equipment	Isobutyl Calibration	Ambient Air Calibration	Background	Cs-137 Source Calibration	Th-230 Source Calibration	Tc-99m Source Calibration
ERT	1	PID (ppm)	NA	NA	NA	NA	NA	NA
EA	0	Ludlum 19-1 (µR/hr)	NA	NA	NA	NA	NA	NA
Cabrera	0	Ludlum 19-2 (µR/hr)	NA	NA	NA	NA	NA	NA
DM Landscavation	0	Ludlum 44-10 w/2221 NaI Probe (cpm)	NA	NA	NA	NA	NA	3696
Parrat Wolf	0							
Quest Environmental	1							
Metro Environmental	6							
Activities								
Quest and Metro Environmental completed removal of ACM within the building and completed the washdown. Heavy rains prevented the 4 hour window of dry time prior to confirmatory air monitoring. Metro/Quest will return tomorrow to remove remaining standing water and conduct air sampling. DM Landscavation delivered the grating to be used at the oversized opening. Mobile office was demobilized.								
Samples Collected abbreviated sample designations listed below								
none.								
Health and Safety Incidents								
None.								
Changes Concurrred w/ USACE Representatives								
1. ERT will cover the area with a high radiation reading with materials taken from the debris pile (either a plate or bricks).								

Date: 7/24/2009		Site: Former LOOW WWTP - Town of Lewiston Property					
Weather: Varied (clouds/sunshine) Temperature: 60-70° F		Location: Lewiston, NY					
USACE Representatives: Mike Polek		Project: Phase IV RI Field Activities - Mobilization 1					
Contractors: number of personnel	Environmental Monitoring Equipment:	Isobutyl Calibration	Ambient Air Calibration	Background	Cs-137 Source Calibration	Th-230 Source Calibration	Tc-99m Source Calibration
ERT: 1	PID (ppm)	NA	NA	NA	NA	NA	NA
EA: 0	Ludlum 19-1 (µR/hr)	NA	NA	NA	NA	NA	NA
Cabrera: 0	Ludlum 19-2 (µR/hr)	NA	NA	NA	NA	NA	NA
DM Landscavation: 0	Ludlum 44-10 w/2221 NaI Probe (cpm)	NA	NA	NA	NA	NA	NA
Parrat Wolf: 0							
Quest Environmental: 1							
Metro Environmental: 6							
Activities:							
<p>Metro Environmental removed additional bagged material from within the AN Building and wet vac'd the floor to remove standing water from the previous days rain in order to obtain clearance samples. NYSDDL (Mark Yoder) arrived at the site to do an unannounced inspection. No issues were identified with the ACM removal activities. QuEST took clearance samples and abatement efforts passed. Removal of building containment was scheduled for Monday (7/27) and the attachment of the remaining grates.</p>							
Samples Collected: abbreviated sample designations listed below							
Health and Safety Incidents:							
None.							
Changes Concurred w/ USACE Representatives:							
ERT and USACE placed rocks and brick on top of radiological hot spot.							

Date	7/27/2009	Site	Former LOOW WWTP - Town of Lewiston Property					
Weather	Partly Cloudy	Temperature	72° F					
USACE Representatives	Andrew Lenox	Location	Lewiston, NY					
		Project	Phase IV RI Field Activities - Mobilization 1					
Contractors	number of personnel	Environmental Monitoring Equipment	Isobutyl Calibration	Ambient Air Calibration	Background	Cs-137 Source Calibration	Th-230 Source Calibration	Tc-99m Source Calibration
ERT	1	PID (ppm)	NA	NA	NA	NA	NA	NA
EA	0	Ludlum 19-1 (µR/hr)	NA	NA	NA	NA	NA	NA
Cabrera	0	Ludlum 19-2 (µR/hr)	NA	NA	NA	NA	NA	NA
DM Landscavation	0	Ludlum 44-10 w/2221 NaI Probe (cpm)	NA	NA	NA	NA	NA	NA
Parrat Wolf	0							
Quest Environmental	0							
Metro Environmental	4							
Activities								
Metro Environmental completed teardown of equipment related to ACM removal. Metro Environmental also worked to secure screens over open surfaces on buildings within Town of Lewiston Property. Dropex TNT sampling occurred at Acid Neutralization Building following the completion of Metro Environmental removing equipment from work area. All Dropex results were negative.								
Samples Collected Dropex TNT wipe samples taken, all negative.								
Health and Safety Incidents								
None.								
Changes Concurred w/ USACE Representatives								
None. Remaining activities discussed below.								
Modern was to remove the small trash dumpster and portable toilets on Monday, after the team demobilized from the site. Metro was working with Waste Management to obtain certification for the disposal of the asbestos containing debris. Exceptions, as of Monday, were that the material would be removed by 7/30/09. Metro is currently working with USACE-LRB to obtain proper signatures for waste characterization and disposal.								

Field Activities Photo Log

**Phase IV RI Field Activities
Photo Log**



Figure 1. Field Testing for TNT using DropEx Kit



Figure 2. Placement of fiberglass grates over openings in the former pump house slab



Figure 3. Placement of fiberglass plates over openings in the former acid neutralization building slab.



Figure 4. Tractor-mounted direct push sampling machine setting up on a new sample location.



Figure 5. Advancing the direct push macrocore at a sampling location.



Figure 6. Logging and PID field screening of a macrocore soil sample.



Figure 7. Field screening for radiological impacts on a macrocore soil sample.



Figure 8. Drilling using a hollow-stem auger for the placement of a groundwater monitoring well



Figure 9. Installing a groundwater monitoring well



Figure 10. Completed groundwater monitoring well.



Figure 11. Setting up containment for ACM cleanup within the former acid neutralization building.



Figure 12. Starting up the pumps to test negative pressure environment within the former acid neutralization building.

Demobilization Report



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20 November 2009

Department of the Army
Buffalo District
U.S. Army Corps of Engineers
1776 Niagara Street
Buffalo, NY 14207

Attn: Jeffrey Hall, PE, PMP

Subject: Demobilization Report for LOOW Phase IV RI Field Activities

Dear Mr. Hall:

ERT, Inc. is pleased to submit this Demobilization Report for the LOOW Phase IV RI Field Activities in accordance with the Scope of Work (SOW) from the USACE, dated 25 June 2008.

At the completion of site activities, no equipment was left on-site and no equipment was purchased with project funds that may be retained for on-site use. No trailers or connected utilities were left on-site. All equipment which was used during intrusive activities was field screened for radiological impacts and the results will be presented in the RI Report. No elevated radiological readings were detected. All equipment used during intrusive activities was decontaminated by first removing excess soil, and then scrubbing with soap and water (as applicable). The site was left in a condition similar to the start of project activities. The only remaining structures are three conventional groundwater monitoring wells, which were installed as part of the SOW. Municipal trash (less than 5 cubic yards) accumulated during site activities were removed by Modern Corporation prior to site demobilization.

Decontamination water, monitoring well development water and purge water was containerized in (1) 55 gallon drum. Excess soil cuttings were containerized in (6) 55 gallon drums. All investigative derived waste (IDW) was characterized according to the Final SAP, transferred from the site and disposed of at an appropriate, permitted waste disposal facility.

We look forward to providing support to USACE in your continuing efforts at the former LOOW site.

cc: ERT File