Defense Environmental Restoration Program for Formerly Used Defense Sites	
(DERP-FUDS)	
Former Lake Ontario	
Ordnance Works	
Restoration Advisory Board Presentation	
July 12, 2000	
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Restoration Advisory Board MEETING AGENDA	
Administrative rules	
Action items	
 Corps update Administrative 	
Public commentsQ&A's	
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Restoration Advisory Board	
ADMINISTRATIVE & GROUND RULES	
Administrative Question cards are available as needed	
Answers to questions will be mailed	
Ground Rules	
• 5 minutes for RAB member questions after each	
presentation Question period for public limited to 20 minutes	
Please identify yourself before asking a question	

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Restoration Advisory Board CLOSED ACTION ITEMS

- · Counsel determination on consensus voting question
 - As stated in the Operating Rules, this Board is not an "Advisory committee" and has not been established to provide committee recommendation(s).
 - The Board can vote as a group on technical matters but cannot provide a consensus opinion as it is not a defined function of the Board.
- Corps to provide status of plans, budget concerns, and funding for year 2000
 - · to be addressed during presentations

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Restoration Advisory Board CLOSED ACTION ITEMS

- Niagara Falls Storage Site Remediation History
 - · Applicable documents available

History portion of Field Sampling Plan for the Remedial Investigation (July 1999)

Post Remedial Action Reports for Vicinity Properties (December 1986, January 1989)

Comprehensive Radiological Survey of Off-Site Property G (April 1984)

Castle Garden Dump and Rochester Burial Area

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Restoration Advisory Board OPEN ACTION ITEMS

- Niagara Falls Storage Site remediation history
 - Corps would like to interview people who worked at the site between 1940 and 1986
 - Advertised in July 2000 Will review questions for interviews during presentation
- Response to concerns regarding NFSS environmental reports
 - Verbal response provided at last meeting
 - Written response in draft

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Restoration Advisory Board OPEN ACTION ITEMS

- Niagara County Health Department (Mr. Dicky) to identify availability of someone from New York State Health Department to present information on future health studies
 - · Will remain an action item
- Corps to send letter to New York State Health Department regarding restraining order
 - Documentation available
 - · Corps is scheduled to address this issue

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Restoration Advisory Board OPEN ACTION ITEMS

- Corps to update RAB regarding contractors for each site
 - · Corps will discuss during presentations

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Former Lake Ontario Ordnance Works *UPDATE*

- Projects update
- Future projects and initiatives
- Summary

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Former Lake Ontario Ordnance Works PROJECTS UPDATE

- TNT & Chemical Waste Sewer Pipeline Removal
 - · Objective
 - Remove remaining underground TNT & CWS pipelines
 - Scope
 - TNT Line: 3,750 linear feet of pipeline to be removed
 - CWS Line: 2,200 linear feet of pipeline to be removed
 - Will collect approximately 100 soil/sediment samples for lab analysis prior to pipe removal to confirm presence/absence of chemical contamination inside and outside of pipes

Former Lake Ontario Ordnance Works PROJECTS UPDATE

- TNT & Chemical Waste Sewer Pipeline Removal
 - Schedule
 - May: Contract awarded May 9, 2000
 - May-June: Work plan development & approvals
 - July: Mobilization & work start
 October: Work complete (target)
 - Contractor
 - Sevenson Environmental Inc. \$1.6 million task order
 - Location
 - Chemical Waste Management Inc. property

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Former Lake Ontario Ordnance Works PROJECT UPDATE

- Engineering Evaluation & Cost Analysis (Area-C Drum Trench and Trash Pit)
 - Objective
 - Evaluate and select methods for removing or treating known hazards quickly
 - Comply with environmental review requirements
 - Provide public notification and seek feedback

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Former Lake Ontario Ordnance Works PROJECT UPDATE

- Engineering Evaluation & Cost Analysis (Area-C Drum Trench and Trash Pit)
 - Scope

Area-C Drum Trench and Trash Pit

- Schedule
 - July-Aug: Public review (30 days)
 - Aug-Sep: Address public comments and finalize document
- Location
 - Chemical Waste Management Inc. property

Former Lake Ontario Ordnance Works PROJECT UPDATE

- Phase-II Remedial Investigation
 - Objective

To assess potential environmental impacts to the former LOOW resulting exclusively from former Department of Defense use of the property

Scope of investigation

TNT production area, Air Force Plant 68, former workshops, former incinerator

Sampling and analysis of soil, sediments, water and wastes Mapping results and providing report of findings

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Former Lake Ontario Ordnance Works PROJECT UPDATE

- · Phase-II Remedial Investigation
 - Schedule

May-September: Field work (in progress)

September - December: Prepare report of findings

- Contractor
 - EA Engineering & Science Inc.
 - \$2.3 million contract task order

Former Lake Ontario Ordnance Works PROJECTS UPDATE

- Phase-II Remedial Investigation
 - Locations
 - Chemical Waste Management Inc.
 - Somerset Group
 - Town of Lewiston
 - Modern Disposal Inc.
 - Background soil and groundwater samples: Up to 30 sites being considered throughout original 7,500 acre LOOW boundary

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Former Lake Ontario Ordnance Works PROJECTS UPDATE

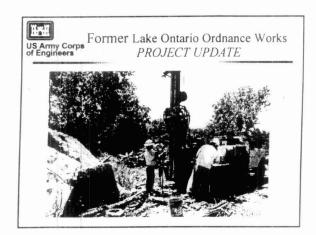
- Future projects and initiatives
 - Potential USACE funding for demolition of former wastewater treatment plant buildings on Town of Lewiston property
 - Potential investigation of underground storage tanks
 - Await funding (\$6 M) for remediation of Area-A drum trench and Area-B burn pit

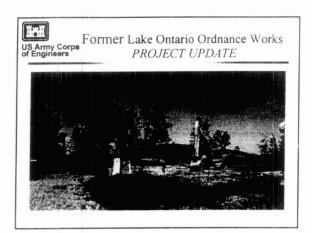
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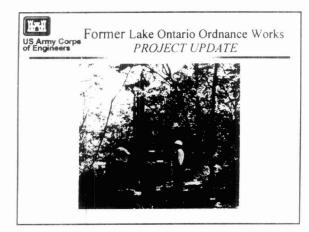
Former Lake Ontario Ordnance Works SUMMARY

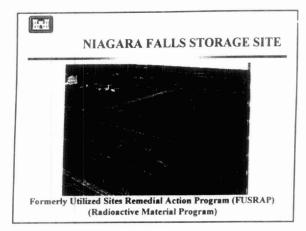
- · Budget requirements are satisfactory this year
- TNT/CWS Pipeline removal
 - In progress scheduled completion by October
- EE/CA (Drum Trench/Trash Pit)
 - Public comment period will begin in July 2000
 - Work will be planned for next year (\$1.8 M)
- Phase II Remedial Investigation
 - Field work will continue from May Sep 2000
 - Final report next year

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NFSS Status Summary

- Overview
 - Results: Phase I Remedial Investigation
 - Status: Interim cleanup actions
 - Next steps

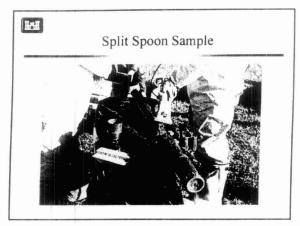
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Remedial Investigation (RI)

- Purpose
 - · Identify on-site contaminants
 - Determine extent of contaminants
 - Determine risk of contaminants to people and the environment

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RI Schedule	
Phase 1 Sampling: Complete	
 Phase 2 Sampling: Start on August 7th 	
 Risk determinations and report by December 2000 	
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Phase 1 RI Sampling & Results	
(Overview)	
(Overview)	

Soil Sampling



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Soil Sample Summary

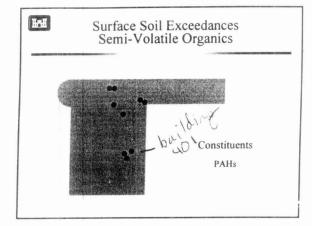
- Samples taken:
 - 69 surface soil samples
 - 78 subsurface soil samples
 - (69 planned + 9 extra)
 - 39 sediment samples

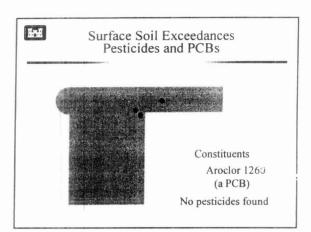
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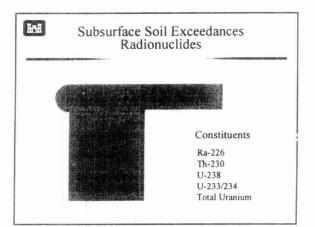
Gamma Walkover Surveys

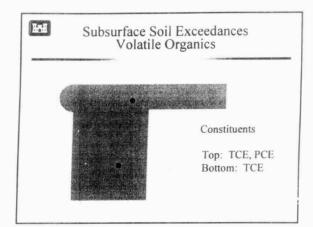
- Downhole gamma survey (each borehole)
- Gamma walkover of 10 X 10 meter locations in boring and surface sample locations
- Gamma walkover of ditches near collection points for sediment and surface water
- All gamma surveys done prior to sample collection

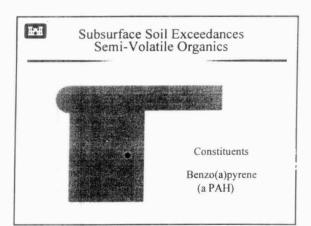
H-H	Summary of Contaminants Found Soils and Sediments	
	Radionuclides	
	PAHs	
	Aroclor 1260 (a PCB)	
	No pesticides or toxic metals	
H-H		٦
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	Location of Contaminants	
	2004	
	Soils and Sediments	
	-	
HAH	Surface Soil Exceedances	
	Radionuclides	
	# 1.75d	
	Constituents	
	Ra-226 Th-230	
	Total Uranium	

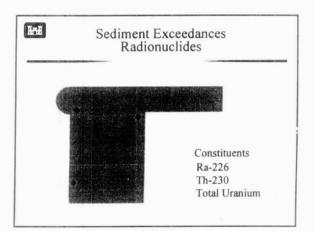












Water Sampling	
water sampling	
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Water Samples	
40 surface water samples	
69 temporary well points	
• (56 samples, 13 dry borings)	
 35 existing wells sampled 	
• 33 existing wens sampled	l 1
Summary of Contaminants Found	
Groundwater	
 Gross alpha 	
Methylene chloride (perhaps)	
 Pentachlorophenol 	

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133 774 400 400 400 400 400 400 400 400 400	
Location of Contaminants	
Groundwater	
Groundwater Exceedances Radiological	
Radiological	
E CHISCHES CONTRACTOR	
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Constituents: Gross Alpha	The state of the s
(may be NORM) further testing pending	4 1000
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Groundwater Exceedances Semi-Volatile Organics	
Constituents Pentachlorophenol	

H-H	Groundwater Exceedances Volatile Organics
	Constituents
	Methylene chloride (May be lab contaminant)

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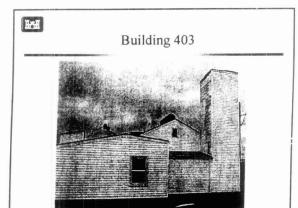
Next Steps in RI

- Phase 2 sampling to begin August 2000
- Thorough gamma walkover Fall 2000
- Geophysical study of site Fall 2000
- Pipeline sampling Fall 2000
- Report expected November 2000

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Interim Cleanup Actions

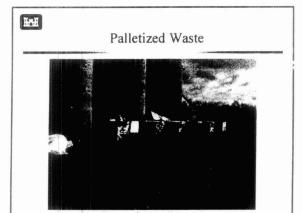
- Decon and demolish Building 403
- · Off-site dispose palletized waste
- Address need to decon and demolish Building 401



Hall

Schedule For Building 403

- Radiological decontamination accomplished in 1998
- Demolition contract awarded March 2000 (Sevenson)
- Work plans under review
- Building demolition scheduled August 2000



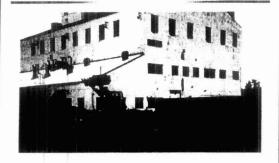
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Palletized Waste Removal Schedule

- Waste characterized in mid 1999
- Some material shipped to WCS (Texas) in June 2000. Additional material is ready for shipment
- 2 containers to be shipped to Envirocare (Utah) next spring

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Building 401



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Purpose of Building 401 Interim Action

- · Building currently locked and posted
- · Building is deteriorating
- Survey underway to plan acceleration of decon/demolition

Contractors

- Maxim Technologies Remedial Investigation
- Sevenson- Demolition of Building 403
- SAIC- Feasibility Study and Gamma Walkover
- Sudhakar Maintenance

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Interview Questions

- What years did you work at NFSS?
- · What did you do when you worked there?
- (Show map with site boundaries): Where did you work?
- If you worked with a process, please describe it. Do you know where the waste for this process was disposed? Was any disposed on site?
- If you worked with site cleanup, please describe what was done?

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Interview Questions

- Did you have anything to do with handling or testing radioactive material?
- Did you ever see any waste buried on site? Where? What kind?
- Did you ever see any drums buried on site? Where?
 Do you know what was in them?
- Do you know if there were any subsurface pipelines on site? If there were, do you know what they were used for?
- · Do you have any questions for us?

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	Questio	ns	
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