

GREAT LAKES AND OHIO RIVER DIVISION CONSTRUCTION ROUNDTABLE

LTC Jason Toth
Commander, Buffalo District
05 – 06 December 2019



US Army Corps
of Engineers®



AGENDA



- FUSRAP/FUDS
 - ▶ Assigned mission / program synopsis
 - ▶ Districts with mission
 - ▶ Example project
 - ▶ Projected work

- Dredged Material Management



PROGRAM - FUSRAP



- **Program:** Formerly Utilized Sites Remedial Action Program (FUSRAP)
- **Mission:** Identify, investigate and if necessary remediate radiological and chemical contamination at sites involved in the early atomic weapons program
- **Example Project:** Luckey Site – Remediation of soils contaminated with beryllium, lead and radionuclides
- **Expertise:** Beryllium and radiation health and safety; contaminated soil excavation, transportation and disposal; data management
- **Lessons Learned:** Health and safety and contamination control are major components on projects with beryllium
- **Tips:** Earned value management important to project success

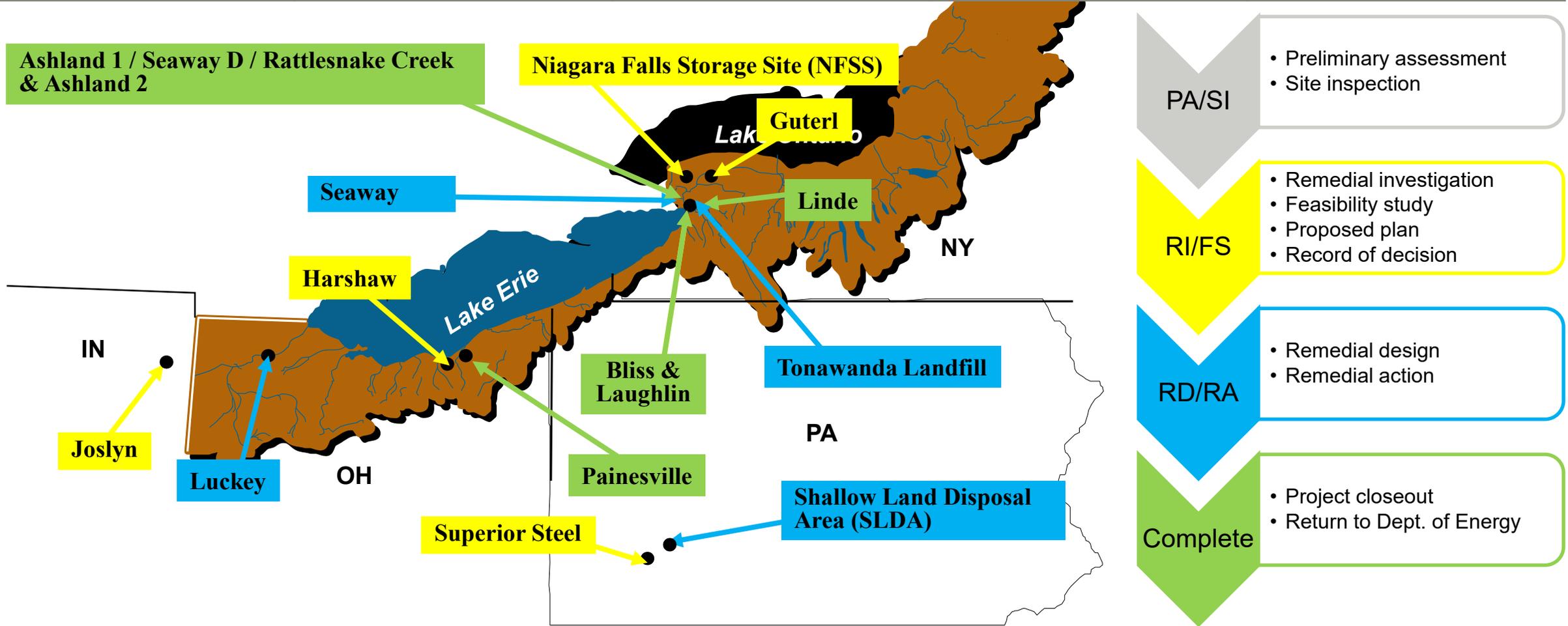




FUSRAP DISTRICTS



DISTRICT	CDR	DDE	POC Name	POC #
Buffalo	LTC Toth	David Romano	Bill Kowalewski	716-879-4418
Pittsburgh	COL Short	Lenna Hawkins	Tim Herald	412-395-7442





LRD FUSRAP LIFECYCLE



		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
Remedial Action	SLDA , PA															CR		TO		
	Luckey , OH													CR		TO				
	Seaway, NY																CA			
	Tonawanda LF, NY				CR		TO													
	NFSS, NY - IWCS	R						Remedial Design & Remedial Action Schedule Pending HQ USACE Approval												
Investigation Phase	Harshaw, OH	PP		R	Remedial Action TBD															
	Guterl, NY		FS/PP		R	Remedial Action TBD														
	NFSS, NY - BOP / GW		FS	PP		R	Remedial Action TBD													
	NFSS, NY - VP E, E', G	Awaiting Access					RI		FS		PP		R	Remedial Action TBD						
	NFSS, NY - VP H'				RI	FS		PP		R	Remedial Action TBD									
	Superior, PA			RI	FS		PP		R	Remedial Action TBD										
	Joslyn, IN				RI		FS		PP		R	Remedial Action TBD								

- Investigation Phase (RI = Remedial Investigation, FS = Feasibility Study, PP = Proposed Plan, R = Record of Decision)
- Awaiting Funding / Contract Procurement
- Remedial Design Phase
- Remedial Action / Cleanup Phase (CA = Contract Award)
- Closeout / Turn Back to USDOE (CR = Closeout Report, TO = Turnover)



FUSRAP – LUCKEY SITE REMEDIATION



- Former beryllium production facility
- Soils contaminated with beryllium, lead and radionuclides
- Remedy is excavation and off-site disposal
- Building removal may be required to address soils underneath
- Former lagoons are currently being remediated under existing contract





FUSRAP FORECAST



Location	Requirement	Year	FAR Range
Luckey Site, Luckey OH	Site remediation (Beryllium and radionuclide contaminated soils excavation and disposal; building demolition)	2021	\$100M - \$250M
Niagara Falls Storage Site, Lewiston, NY	Site operations and maintenance (Maintain interim waste containment structure [IWCS])	2023	\$1M - \$5M
Seaway Site, Tonawanda, NY	Site remediation (Complete capping of inactive landfill)	TBD	\$10M - \$25M
Harshaw Chemical, Cleveland, OH	Site remediation (Radionuclide contaminated soils excavation and disposal)	TBD	TBD
Guterl Steel, Lockport, NY	Site remediation (Radionuclide contaminated soils excavation and disposal; radionuclide contaminated groundwater cleanup)	TBD	TBD
Niagara Falls Storage Site, Lewiston, NY	Site remediation (Removal/treatment/disposal of high activity radioactive residues in IWCS; radionuclide/chemical contaminated soils excavation and disposal)	TBD	TBD



FORMERLY USED DEFENSE SITES (FUDS)



- **Mission:** The environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the US and under the jurisdiction of the Secretary of Defense prior to October 1986.
- **FUDS Vision:** Response complete in our lifetime.
- **FY20 Obligation Goal:** \$17.8M



Projects



Former Plumbrook Ordnance Works Red Water Pond Areas

The Former Plum Brook Ordnance Works was a TNT and Pentolite Manufacturing facility during WWII from 1941 to 1945 producing over a billion pounds of explosives. Project 20 – Red Water Pond Areas: received process waste water from the trinitrotoluene (TNT) manufacturing areas. Remedial Action for the Pentolite Red Water Pond Area includes excavation, Alkaline Hydrolysis and on-site/off-site disposal.

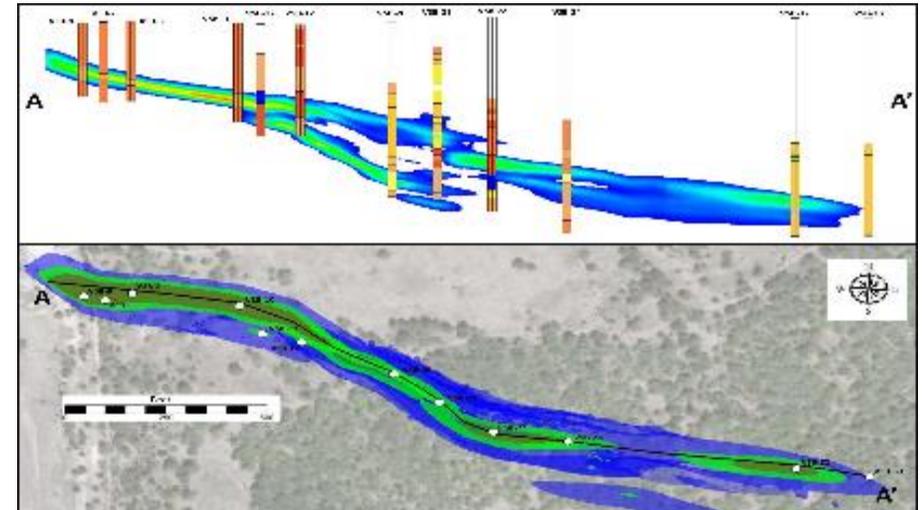


View of Pentolite Road Ditch: Dike constructed by NASA to control release of Redwater, 21 Jun 18

Raco Army Airfield & Missile Site TCE Investigation

In 1960, a BOMARC missile base was constructed southeast of the airfield and operated until 1973. Since that time, the property has remained under US Forest Service (USFS) jurisdiction.

A feasibility study is underway to evaluate remedial alternatives for the trichloroethene groundwater plume. A non-time-critical removal action (NTCRA) is underway to remove a concrete vault containing contaminated sludge.



Raco Missile Site. TCE Groundwater Plume



FUDS DISTRICTS



DISTRICT	CDR	DDE	POC Name	POC #
Louisville	COL Gant	Linda Murphy	Dave Dierken	502-315-6498

FUDS FORECAST

Location	Requirement	Year	FAR Range
Nike D-97 Oakland Community College Project 02	Conduct an RI/FS	2020	\$1M - \$5M
Plum Brook Ordnance Works Project 20	RA-C phase	2020	\$1M - \$5M



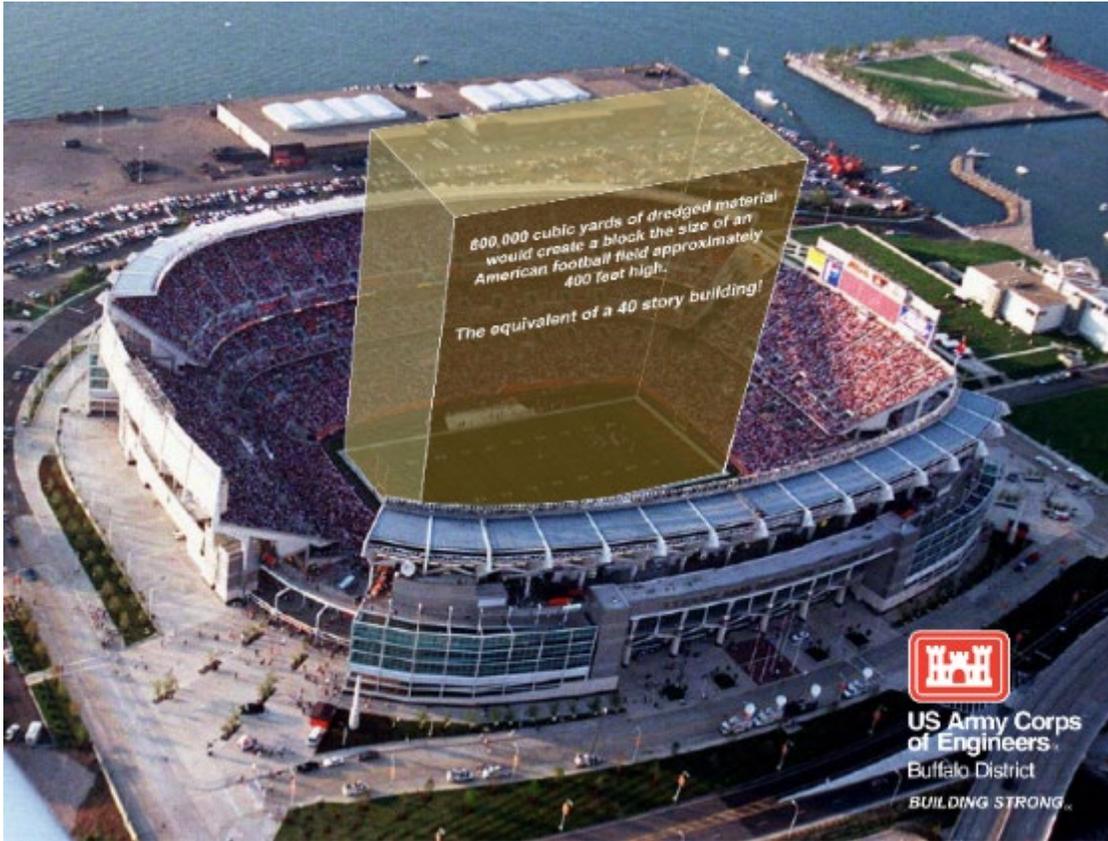
DREDGED MATERIAL MANAGEMENT



- Approximately 3 million cubic yards of material is dredged from the Great Lakes each year. Dredging supports nearly \$25B commercial industry across Great Lakes.
- Consolidated Disposal Facility capacity, environmental concerns, and new laws have challenged how we traditionally dispose of dredged material.
- Continue to work with stakeholders and find beneficial uses for the dredged material.



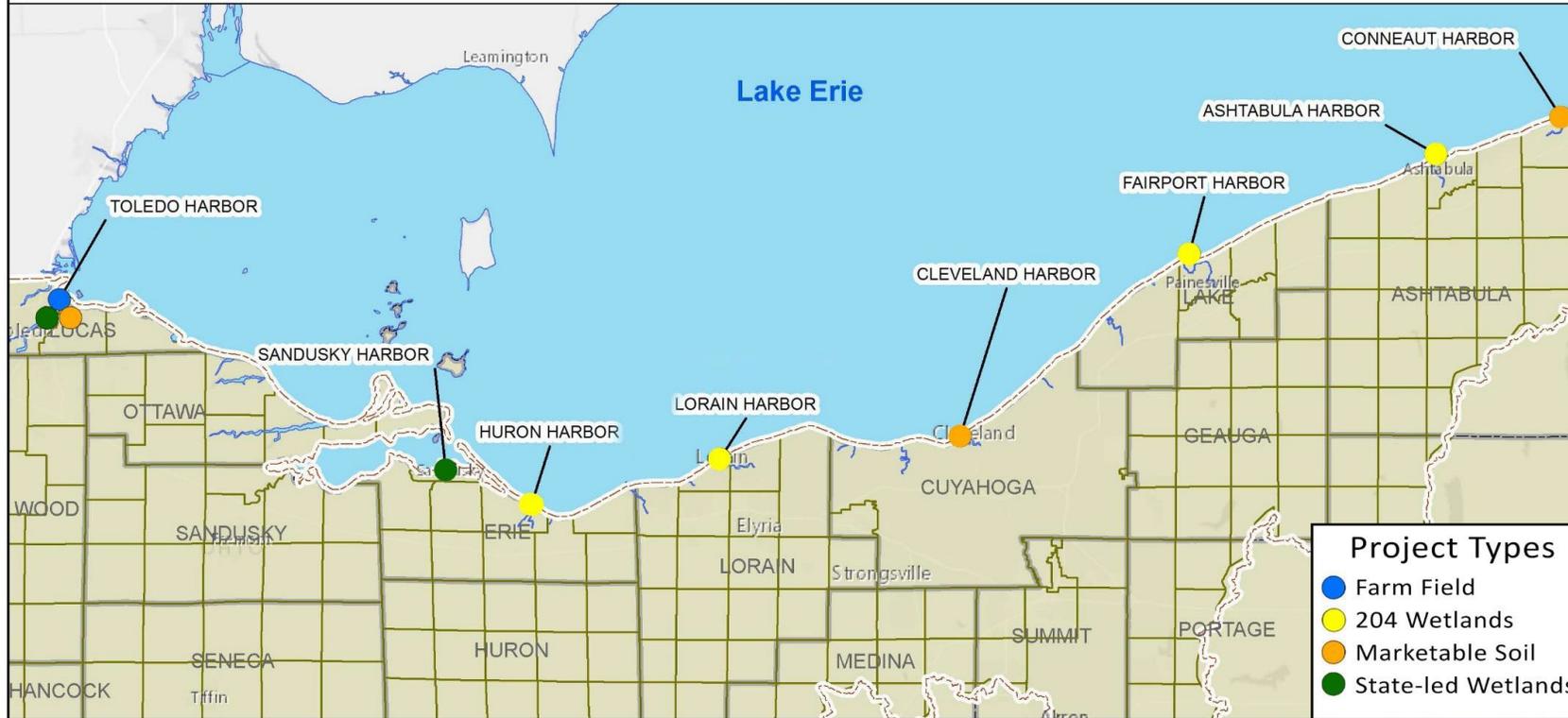
Magnitude of Annual Toledo Dredged Material Volume





Beneficial Use of Dredged Material Project Collaboration

- » \$25B in annual business revenues generated by the harbors
- » 130,000 jobs created or retained by the harbors
- » Total Great Lakes dredging = 3.3M cubic yards; Lake Erie alone = 1.5M
- » Ohio's 2020 ban on open-lake disposal requires development of alternatives





Great Lakes Dredged Material Center for Innovation



USACE Contractor, Ryba Marine, placed dredged material into the Toledo-Lucas County Port Authority's Riverside Facility. This demonstration project, funded by the Ohio Healthy Lake Erie Initiative, is aimed at helping to promote alternatives to open-lake disposal. The ultimate goal is to show the agricultural community there are benefits to using dredged material for crop growth.



Dredged Material being pumped into Facility



Barge of Dredged Material Transported to Facility



ASHTABULA, OH SECTION 204

