Community Advisory Group

Raymark Industries, Inc. Superfund Site Stratford, CT

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September 27, 2023









US Army Corps of Engineers®

To download presentation slides visit:

Stratfordct.gov/Raymark

Hybrid Meeting Guidelines

Virtual Attendees:

- Everyone will be muted throughout the presentations please stay muted to eliminate background noise.
- Hold questions until the end of each presentation.
 - Use the chat box.
 - Mute yourself after speaking

Everyone:

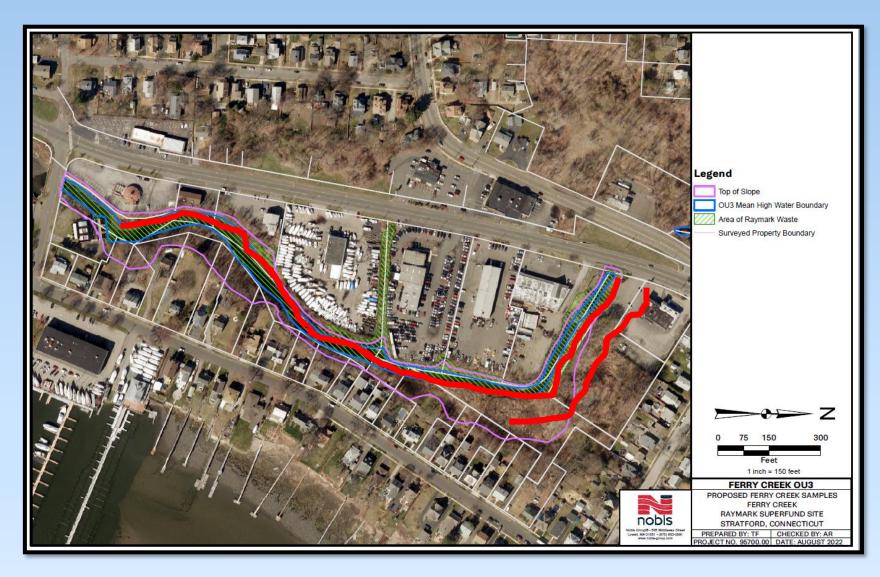
- Ask questions related to the presentation topic
- Please be respectful of time, so everyone has a chance to speak
- Be respectful and patient.
- Talk one at a time.
- This meeting will be recorded.

AGENDA

- INTRODUCTIONS AND MEETING RULES
- OPERABLE UNIT 3 and 6 (OU3, OU6) UPDATES
- RAYBESTOS MEMORIAL FIELD (OU4)
- STORMWATER CONVEYANCE SYSTEM
- OTHER OPERABLE UNITS
- OVERALL PROJECT SCHEDULE

OU3 Update

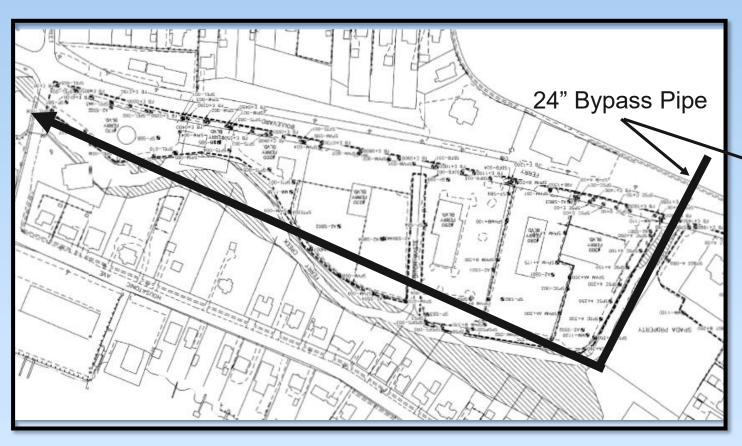
OU3 Ferry Creek Remediation



OVERVIEW

- Ferry Blvd to Broad St (1/3 mile)
- Mobilized in May/June
- Channel: 2ft (removed 4 to 6ft on average)
- RW in Banks (red line): 4ft
- RW Removed: 12,100cy
- PHC removed: 277cy
- Water treatment plant
- Excavation done this week (more than 2 months early)
- Restoration
 - 1. Seeded coco matts for banks (now)
 - 2. Trees/shrubs top of bank (Spring 2024)

Dual-Phase Dewatering System





OU3 Box Culvert Cleaning

Box culvert inlet at East Broadway



Box culvert outlet at Ferry Blvd



OU3 Construction Road

Looking towards Willow Ave



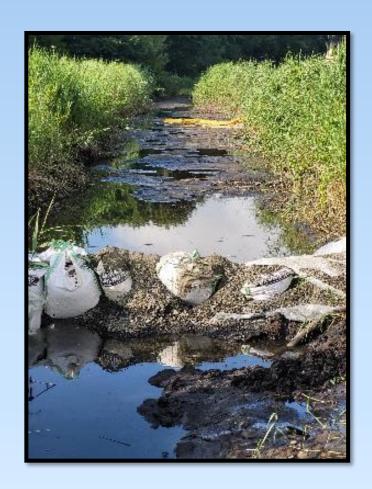
Looking towards Broad Street



OU3 Excavation

Temporary Dams and Debris







Removing 4 to 6 Feet of Sediment on Average





OU3 Banks

Bank Along Rear EPA Office Lot



Bank Along Rear Vacant Lot



Most recent (Yesterday)





Overview Photos





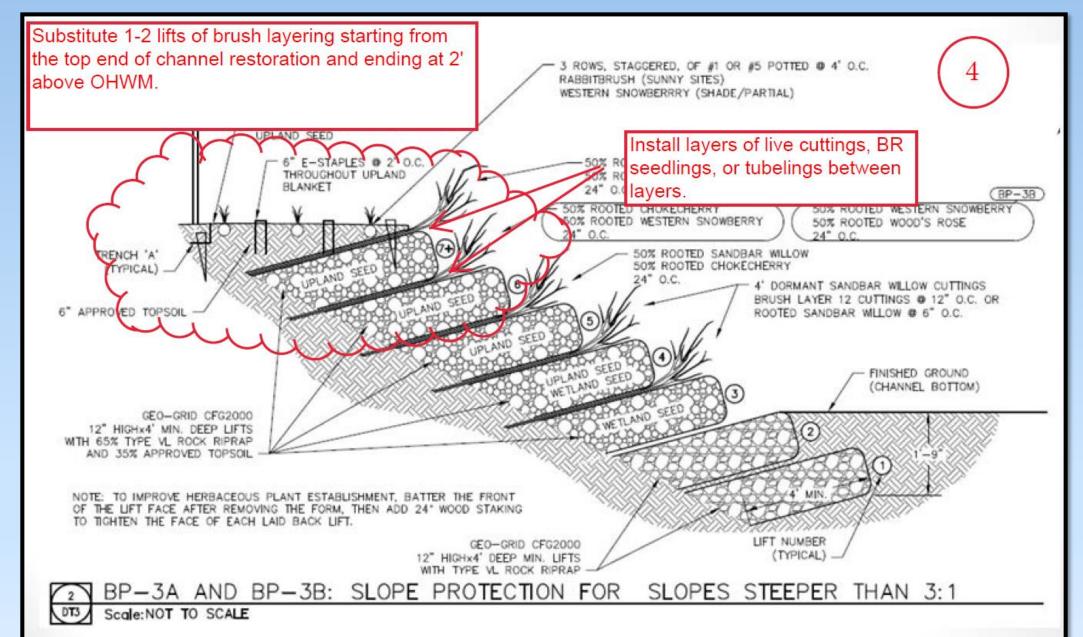
Before



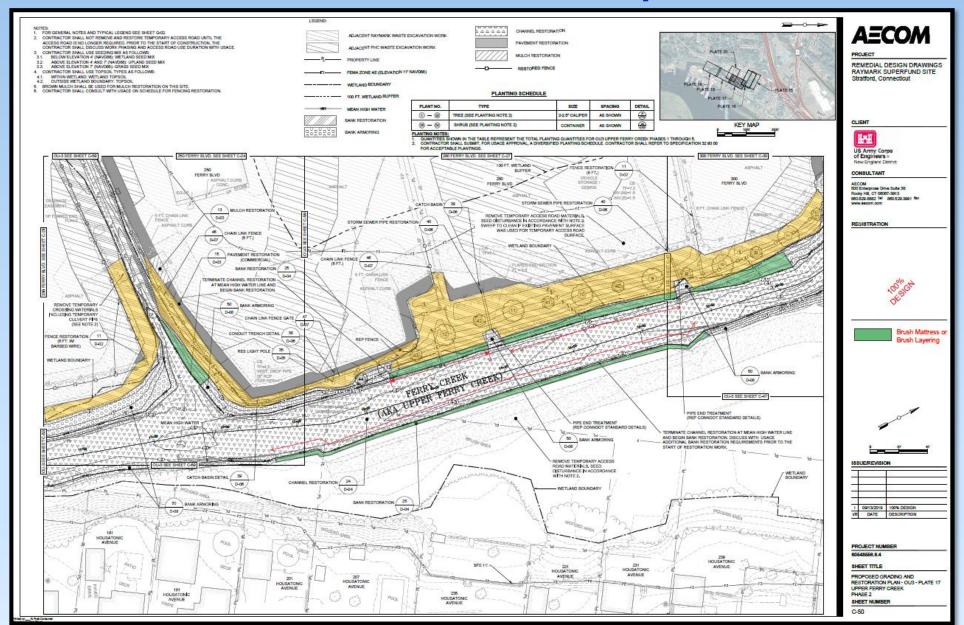
After



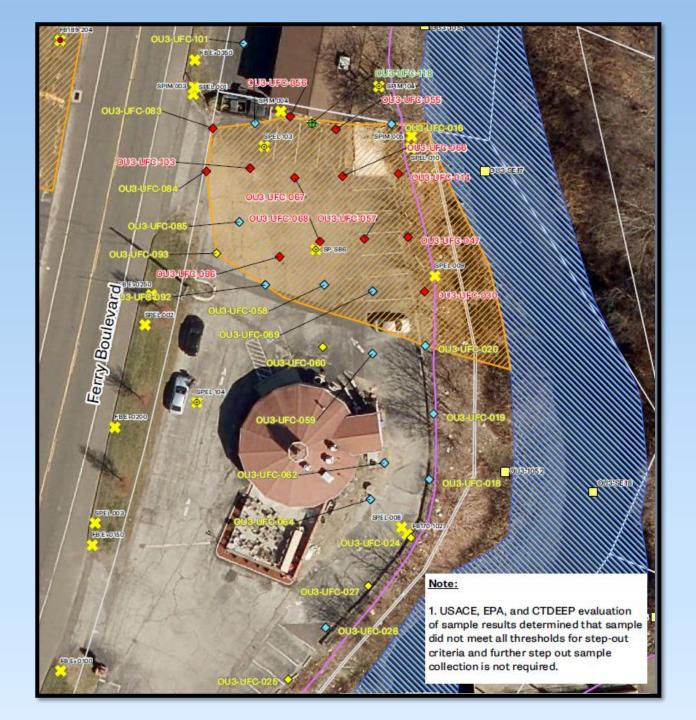
OU3 Restoration - Creek Banks



OU3 Restoration – Top of Bank



Remaining OU6 Properties



Big Jim's Galley

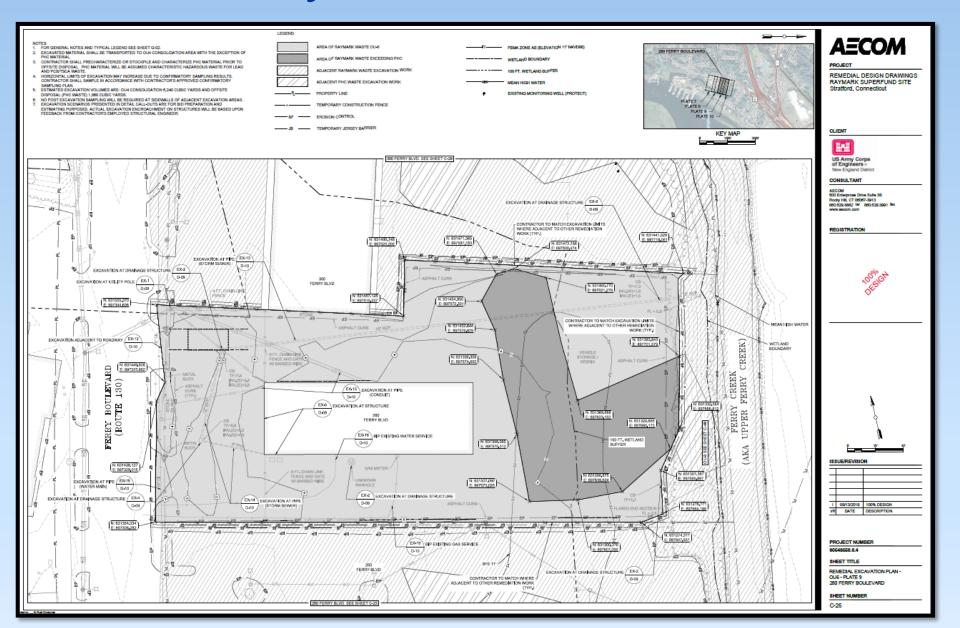
- No previous history of RW
- Found when sampling the bank
- Est 1,300cy Raymark Waste
- Excavation on Monday (155cy)
- Will be complete in early October



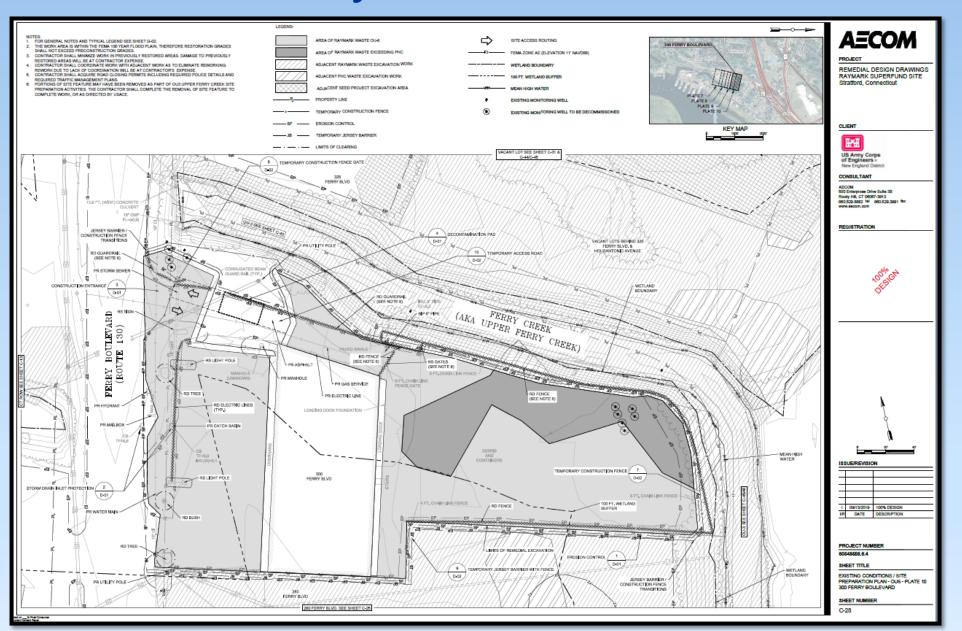
Third Ave ROW

August 2023

280 Ferry Bvld – Blasius South



300 Ferry Blvd – EPA Office



Lockwood Ave (2023-2024)



- 4.8 acres
- About *20,000cy of Raymark
 Waste, No PHC, 2-foot?
- Phase 1 tidal wetlands
- Phase 2 upland/inland wetland
- Various channels and culverts (stormwater, Selby Pond, Ferry Blvd wetland)
- Bulkhead around upland
- Coastal resiliency (1 foot)

OU3/OU6 Remediation Tracking Table

Area	Location	Excavation Dates	Volume (cy)	Truck Trips?	No. Prop	Notes
Big Jim's Galley	170 Ferry Blvd	Sept 25 to xx, 2023	155	15	1	ELUR
OU3 Ferry Creek	Ferry Blvd to Broad Street	June to xx, 2023	12,080	1,231	1	ELUR
		May 8 to 10, 2023	727	69	1	Behind car dealerships
TOTALS =		Raymark Waste	65,109	5,761	24	
		PHC Waste	6,381	598	14	

OU6 Remaining Properties

Area	Location	Excavation Dates	Estimated Volume (cy)	
Big Jim's Galley	170 Ferry Blvd	October 2023	12,845	
Blasius	280 Ferry Blvd	Oct/Nov 2023	6,240 (1,860)	
3 rd Avenue	3 rd Avenue	Oct/Nov 2023	100	
EPA Office	300 Ferry Blvd	Nov/Dec 2023	5,010 (1,090)	
Lockwood Ave	Lower Ferry Creek	Jan to June 2024	*20,000	
Estimated Remai	ning Volumos –	Raymark Waste	44,195	
Estillated Kellial	illing volumes =	PHC Waste	2,950	

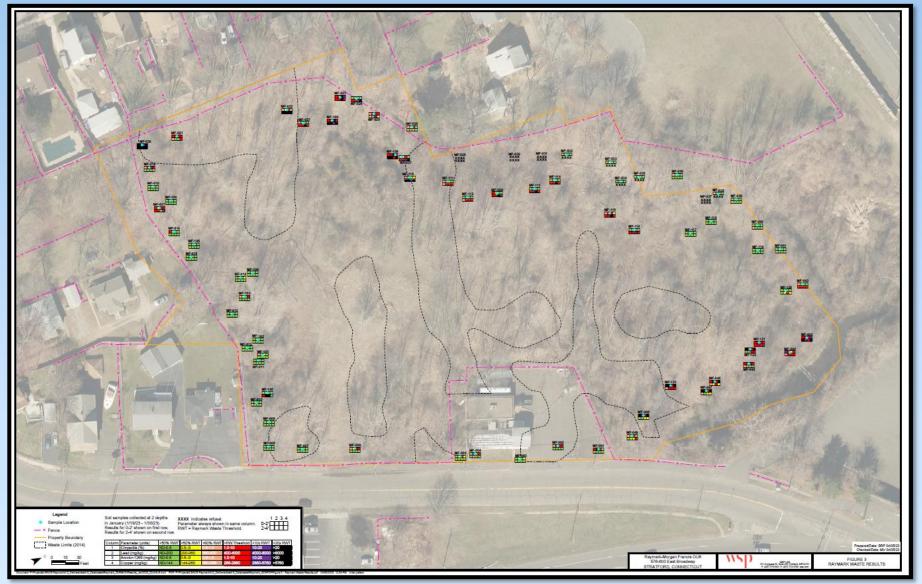
Estimated Overall Volume

Raymark Waste = 109,304cy

PHC Waste = 9,331cy

OU6 Morgan Francis 576/600 East Broadway

576/600 East Broadway - Morgan Francis

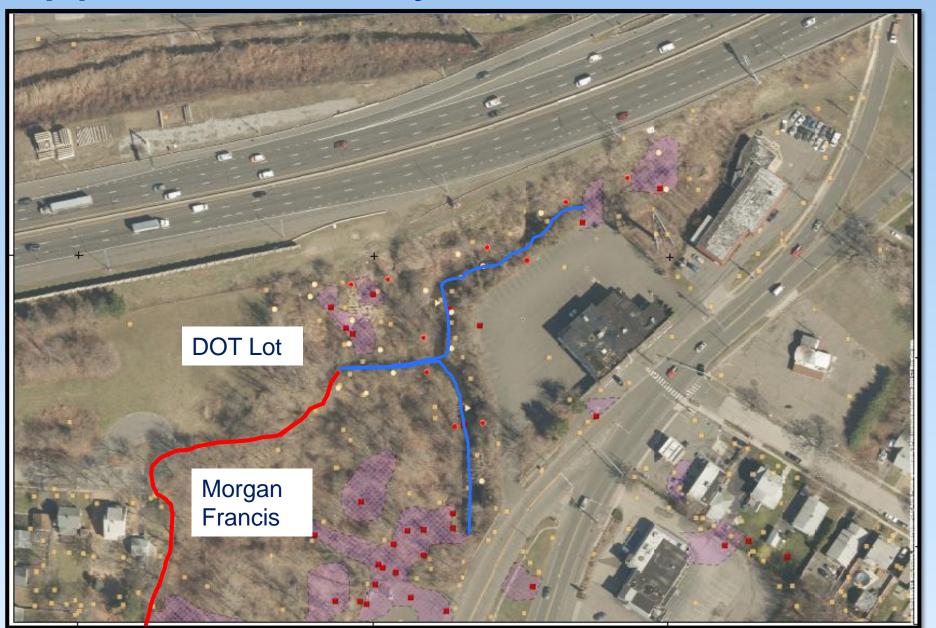


- 2011 ROD
 - 44,000cy RW (low)
 - Cap in place
- Update design
 - Recreational use
 - Consolidate adjacent RW
 - 60% design done
- Contracting in 2024
- Expect cleanup to start early 2025

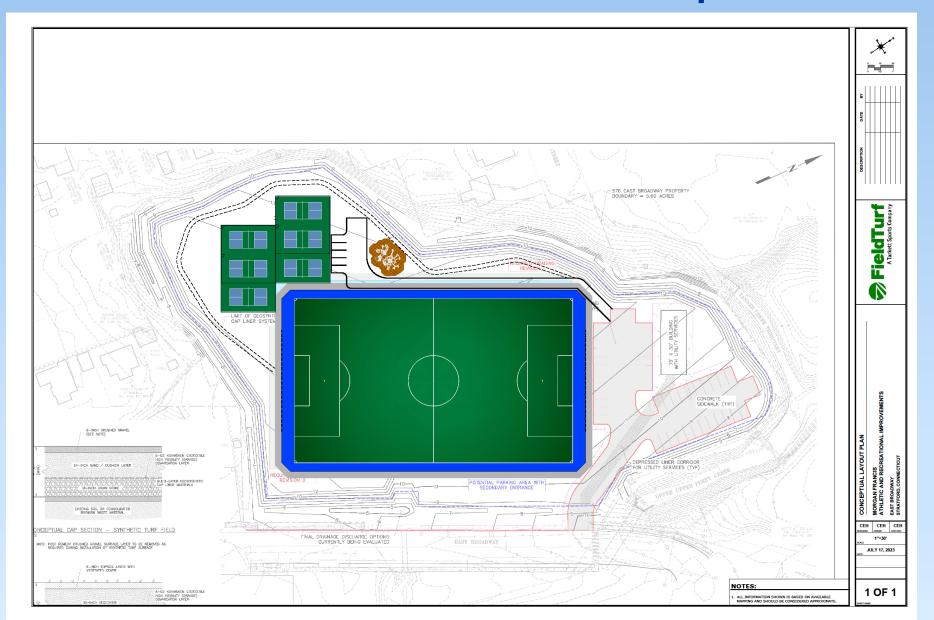
REFER TO AUTOCAD FILE FOR PROPOSED FINAL REMEDIATION GRADE CONTOURS AND VARIOUS LIMITS SHOWN ON THIS FIGURE (RAYMARK MF - 60 PERCENT POST REMEDY GRADING) PROPOSED GRADING LIMIT AREA ~ 5.15 ACRES MORGAN FRANCIS PROPERTY BOUNDARY AREA N 5.70 ACRES -PROPOSED GEOSYNTHETIC CAP LIMIT AREA ~ 4.20 ACRES (SEE DETAILS THIS SHEET) POST SETTLEMENT GRADE * 1%-AREA = 3.25 ACRES SLOPE (SEE NOTE 1) PERIMETER SLOPE (3:1) WITH 2-FOOT WIDE DRAINAGE SWALE (TYP) PROPOSED FINAL GRADE CONTOUR (SEE NOTE 1) CONCEPTUAL PARKING AND SUPPORT AREA-WITH MAXIMUM POST SETTLEMENT GRADE OF APPROXIMATELY 4 PERCENT ENSTRUC SON, OR COMPOLICATED MICHAEL WATER AND MICHAEL BATTERAL CONCRETE WALT CONCEPTUAL CAP SECTION - SYNTHETIC TURF SURFACE SUMP = -1.0" SAN SEWER MA (PULL) ROM = 5.83° SUMP = =1.0° SAM SEWER UM FSU = 8.56' MY N (N) = 0.10' 13-MEH PROTECTIVE COMER SOIL 1. PROPOSED GRADING BASED ON 40 PERCENT SUBMITTAL AND SUBJECT TO CHANGE DURING ANTHRO SOL OF CONSOLEATED MICHAEL 60 PERCENT DESIGN CAP SECTION AND CONCEPTUAL TURF SECTION

60% Remedial Design

Uppermost Ferry Creek and DOT Lot



Recreational Concept



OU4 Updates

OU4 Ballfield Work Completed or Ongoing Since July





- Approximately 65,000 CY of material has been consolidated, compacted, and covered to date
- Posi-Shell cover has been applied on all previously imported Raymark Waste at the Ballfield
- Stormwater treatment plant has been established at the consolidation area
- Stormwater conveyance line construction complete
- Pumpstation construction is underway
- 6 perimeter air monitors at OU4 are operating daily

OU4 Consolidation Area



- Approximately 65,000 CY of material has been consolidated, compacted and covered
- Actively stockpiling material from Ferry Creek (OU3)
- Creek material is very wet with a high organic content
- Creek sediment is amended with cement in the handling structure then stockpiled and allowed to dewater further before consolidation

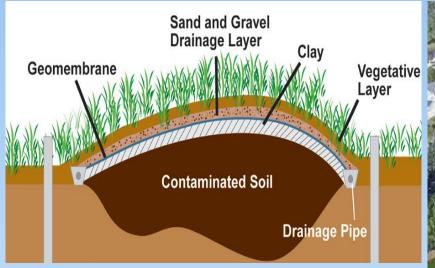


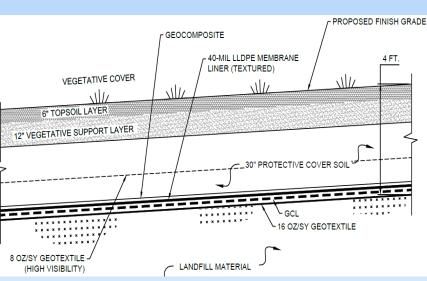


OU4 Consolidation Area



OU4 Cap and Future Concept



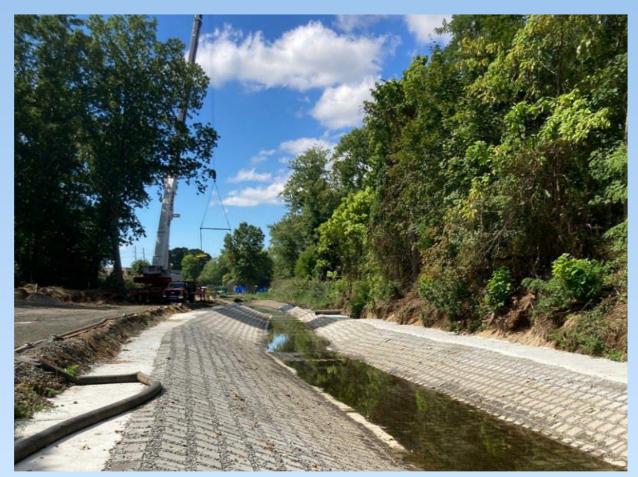


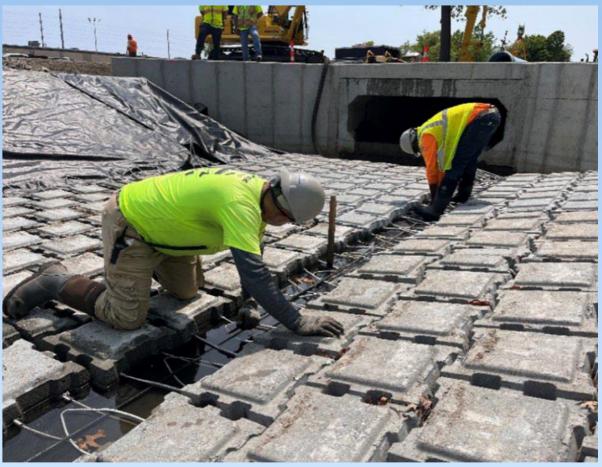


OU4 Stormwater System



Stormwater Conveyance





Open Channel Armoring

Stormwater Conveyance





Culvert Installation and Site Restoration



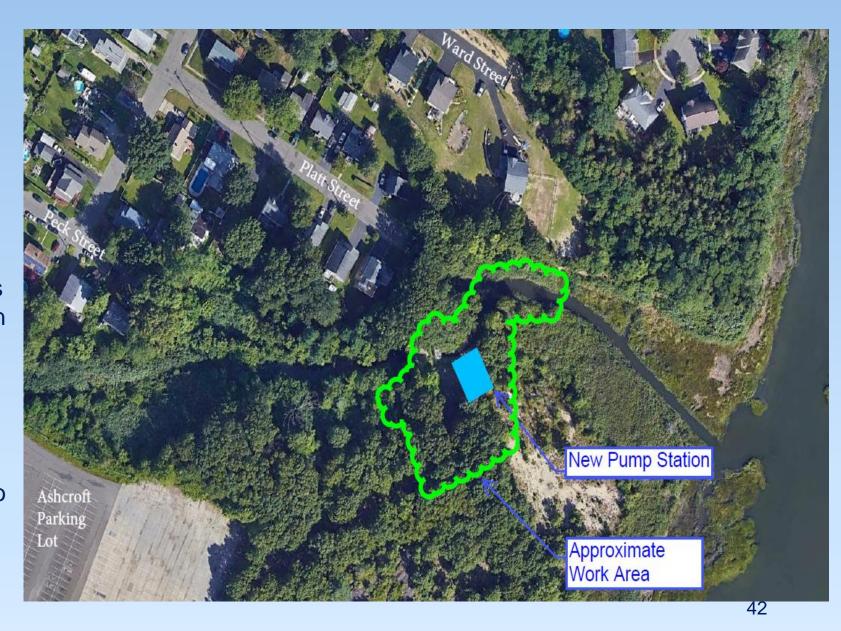
New Pump Station

- Will manage future stormwater runoff from OU4 and adjacent Town stormwater systems
- P&S Construction Prime contractor
- Construction underway
- Construction expected complete December 2024
- Operates during significant storm and highwater events



Pumpstation - completed and upcoming site work

- Blasting operations began in late August
- 7 successful blast events since
- The blasts went as planned, safely and with minimal noise, dust, and vibration
- Measured ground motions and noise have been below the predicted values and significantly below the limits set in the specifications and blasting plan
- Excavation of the broken rock and additional site prep is underway
- Line drilling and the second phase of blasting and excavation is expected to begin early October with blasting operations expected complete by mid October



Pumpstation Excavation





Charge Holes and Blast Mat Placement

Pumpstation Excavation





Blasting and rock spoils



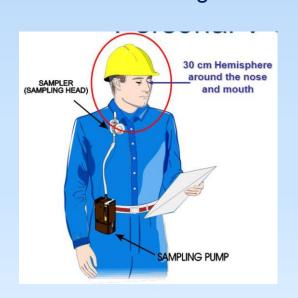
Air Monitoring

Raymark Air Monitoring Program

- Dust monitoring protects workers and abutting community
 - Dust Action Levels based on property and type of work
 - Action Levels = 0.014 (OU4) and 0.019 mg/m³
 (OU3 and OU6) when Raymark Waste handled.
 - Action Levels = 0.075 mg/m3 (OU4 Early Detection Station)
 - Action Level = 0.150 mg/m³ when only clean soil handled
 - Chemical samples collected for lab analysis when Raymark Waste is handled
 - Low safety threshold STOP WORK before any potential risk to workers or community
- Vibration monitoring conducted
 - STOP Work = 0.5 inches/second



Dust Monitoring Station



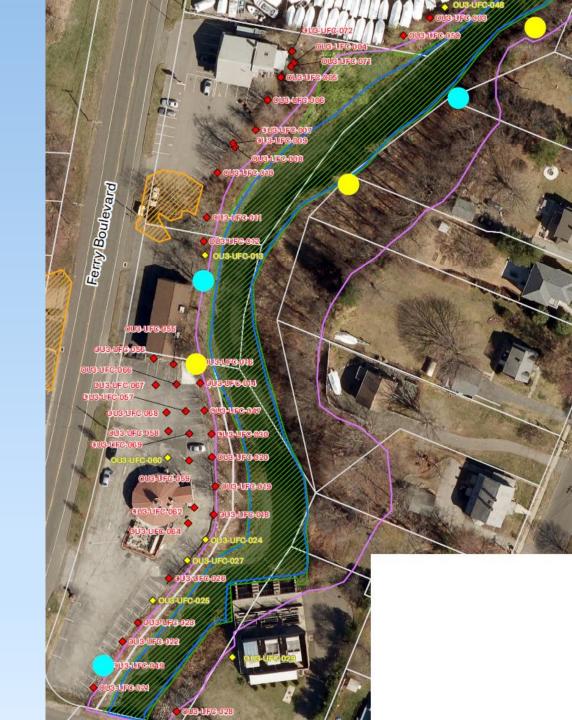
Chemical Sampling Port



Personnel Monitoring

Air Monitoring Results

- No exceedances of the applicable Daily Dust Action Levels during this period!
- No elevated chemical concentrations above the action level criteria during this period!
- Copper and lead analysis for one of the five air samples collected at OU4 on 9/11 - 9/13 was not processed by the lab. When the sample arrived at the lab, it was damaged and unusable. Origin of the damage is unknown.



Vibration Results

- On 7/25, 8/18 and 9/13 vibration exceedances due to thunderstorms were observed.
 - Exceedances on 7/25 and 8/18 occurred outside of working hours.
- A vibration complaint was received 8/8 from an Avery Street resident.
 - Cause was vibratory roller compaction during restoration work.
 - Contractor immediately notified and reduced their work to stop the disturbance.
 - A vibration meter was deployed the morning of 8/9 and vibration monitoring will continue until restoration is complete.



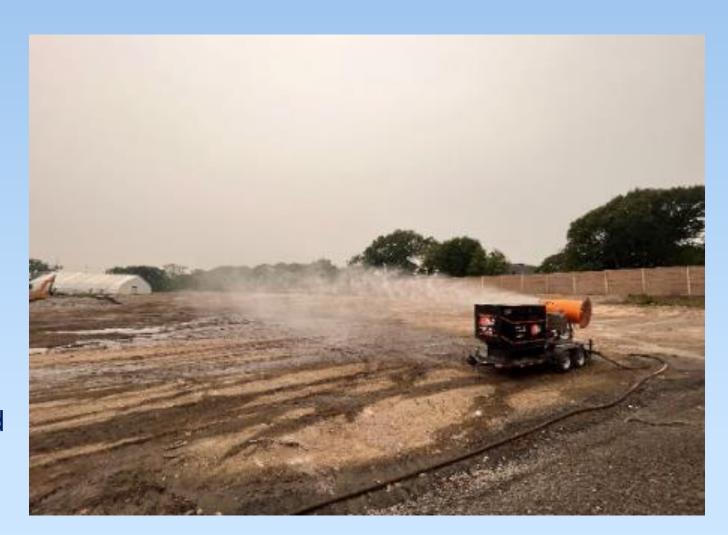
Excavating saturated Raymark Waste from Upper Ferry Creek

Asphalt paving Ashcroft Parking Lot



Poor Air Quality Index

- Implemented a revised air monitoring procedure for OU4 when EPA's Air Quality Index (AQI) is greater than 75 in response to Canadian wildfires.
- Not applicable to OU3/6 because not fixed stations and can be located to represent specific work area.
- AQI has not exceeded this threshold since July.
- AQI monitoring will continue, and revised procedure will be implemented as needed.



Other Raymark Operable Units (OUs)

Nine Operable Units

- OU1: Former facility. (2005 ROD)
- OU2: Groundwater/Vapor Intrusion (2016 ROD)
- OU3: Upper Ferry Creek (2016 ROD)
- OU4: Raybestos Memorial Ball Field (2016 ROD)
- OU5: Shore Road Boat Club (2023 ROD pending)
- OU6: Additional Fill Properties (2011 and 2016 RODs)
- OU7: Lower Ferry Creek
- OU8: Beacon Point Boat Launch
- OU9: Short Beach Park/Stratford Landfill

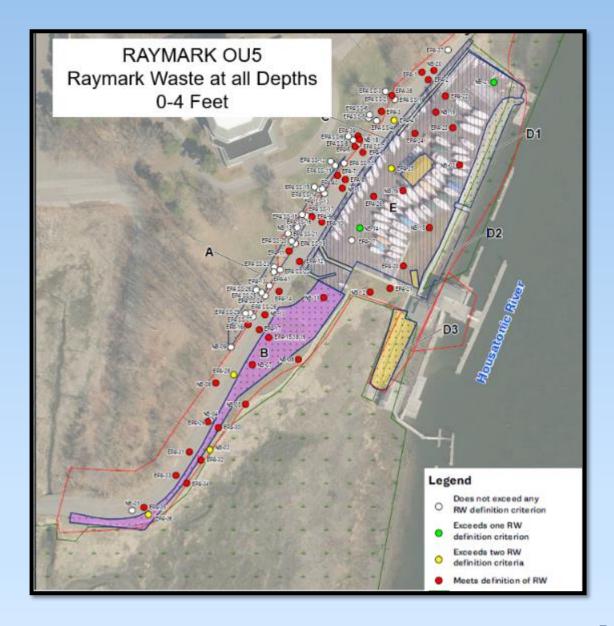
OUs in GREEN are the focus of current cleanup

Explanation of Significant Differences (ESD)

- Documents "significant" changes to EPA's previous cleanup plans (Record of Decision or ROD)
 - 1. Floodplain changes (Morgan Francis, Beacon Point and Lockwood Avenue)
 - 2. Change to plan to manage stormwater at OU4
 - 3. Less than 4-foot excavation at a DOT property along 195
- Public meeting held on <u>August 15th</u>
- 15-day comment period has closed
- ESD has been issued

Record of Decision (ROD) for OU5 Shore Road Area

- ROD to include a combination of excavation and capping in place (About 9,500cy)
- Incorporates Coastal Resiliency
- Public meeting held on August 8th
- Public hearing held on September 6th
- 30-day public comment period closed
- Expect to issue ROD in October
- Cleanup in 2025
- Ron Jennings is the EPA Project Manager



Operable Unit 9

- Study area is approx. 94-acres including the former Stratford Landfill (northern ~30 acres) and Short Beach Park (southern ~64-acres).
- Continuation of Remedial Investigation (RI) activities including portions of Short Beach Park, Stratford Landfill and the Marine Basin
 - Investigation includes geophysics, borings/wells, landfill gas survey, conductivity testing, tidal study, ecological evaluation, etc.
 - Remedial Investigation report, Feasibility Study and decision document development.
- Anticipated Schedule:
 - Mobilization (Sept./Oct. 2023).
 - Limited vegetation clearing and surface geophysics (Oct. 2023).
 - Data collection (Nov. 2023 to ~May 2024).



Overall Schedule

OU6

- October Big Jim's and 3rd Ave ROW
- October/November 2023 Blasius South Dealership
- November/December 2023: EPA Office/Former Ski Shop
- 2023-2024– Lockwood Ave
- December 2023 Complete Morgan Francis Design

OU4

- 2024: Construct cap
- 2025: OU4 final restoration
- Complete pump station

OU5

- 2024: Complete design of cleanup
- 2025–2026: Conduct cleanup

Next CAG Meeting November 29th at 6:30pm

For more information about the Raymark Superfund Site, including copies of presentation slides, documents and meeting minutes, please visit: stratfordct.gov/raymark

Email Alivia at: acoleman@townofstratford.com with further questions, concerns, feedback or to sign up for the Raymark email distribution list.