Community Advisory Group

Raymark Industries, Inc. Superfund Site Stratford, CT

> Jim DiLorenzo, EPA Mike Looney, USACE Rachel MacPhee, USACE

September 28, 2022









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 the meeting.
 - 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

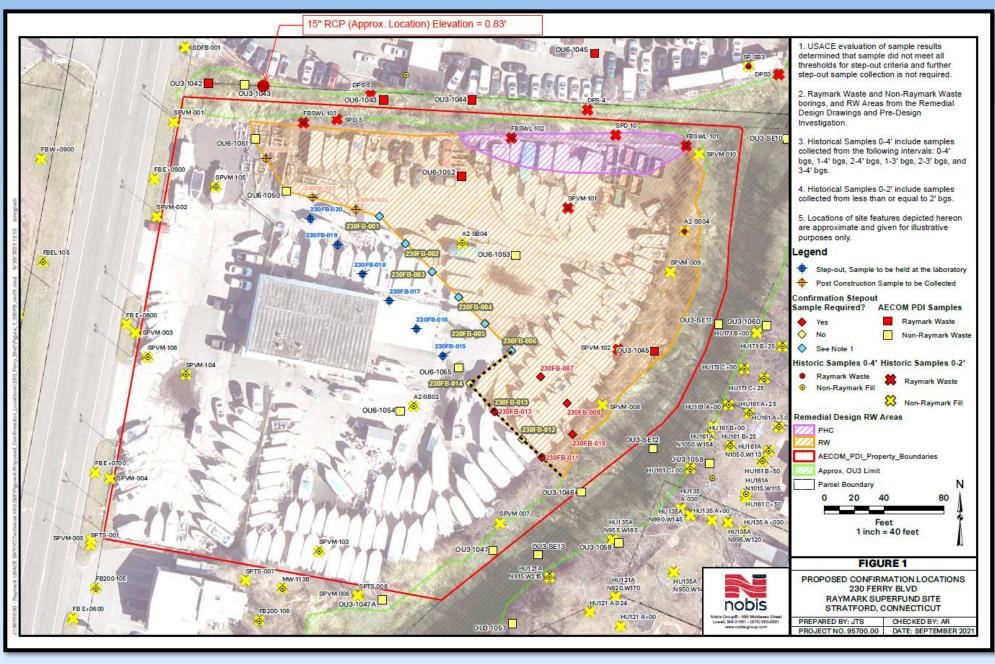
- INTRODUCTIONS AND MEETING RULES
- OPERABLE UNIT 6 (OU6) UPDATES
- RAYBESTOS MEMORIAL FIELD (OU4)
- AIR MONITORING UPDATES
- STORMWATER CONVEYANCE SYSTEM
- OVERALL PROJECT SCHEDULE

OU6 Updates

Vacant Lots Behind the Blue Goose



- Jan. 18th to May 11th 2022
- 9,622cy (905 trucks)
- 1,362cy PHC (121 trucks)
- Buried foundation
- Wetland area in rear
- Restoration
 - Parking lot repaved/striped
 - Fence replaced
 - About 40 border trees/arborvitaes
 - Compacted gravel



Hitchcock Marine

Plus, adjacent drainage ditch

- June 13 to July 27
- Most boats in water
- 4,974cy (457 loads)
- PHC 715cy (72 lds)
- Active leach field
- Restoration of drainage channel

Start of Excavation Looking Towards Ferry Creek





Excavation and Loading





Restoration





Clearing of Drainage Ditch

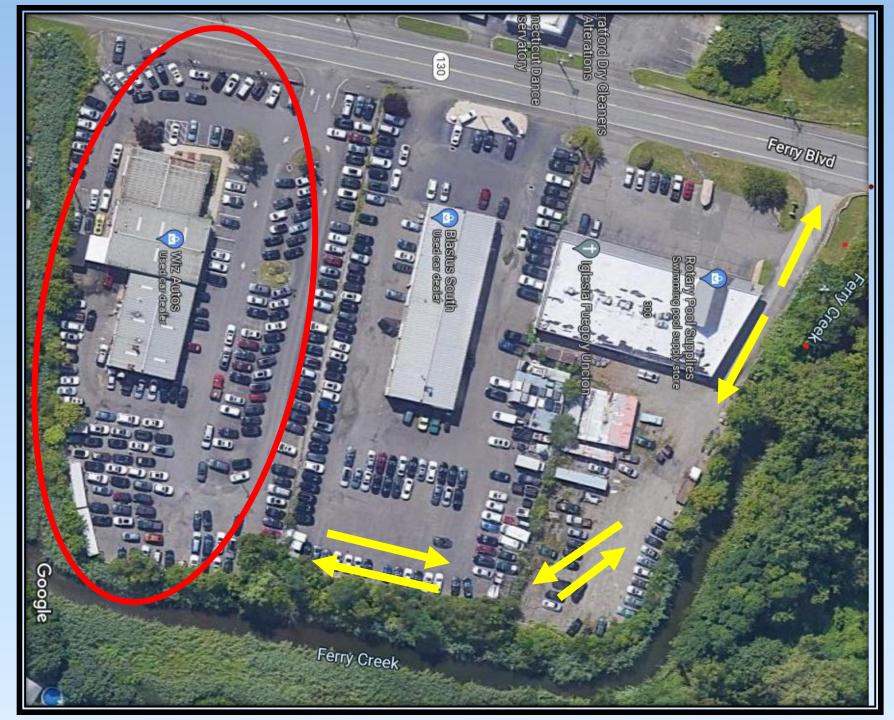




Restoration of Drainage Ditch

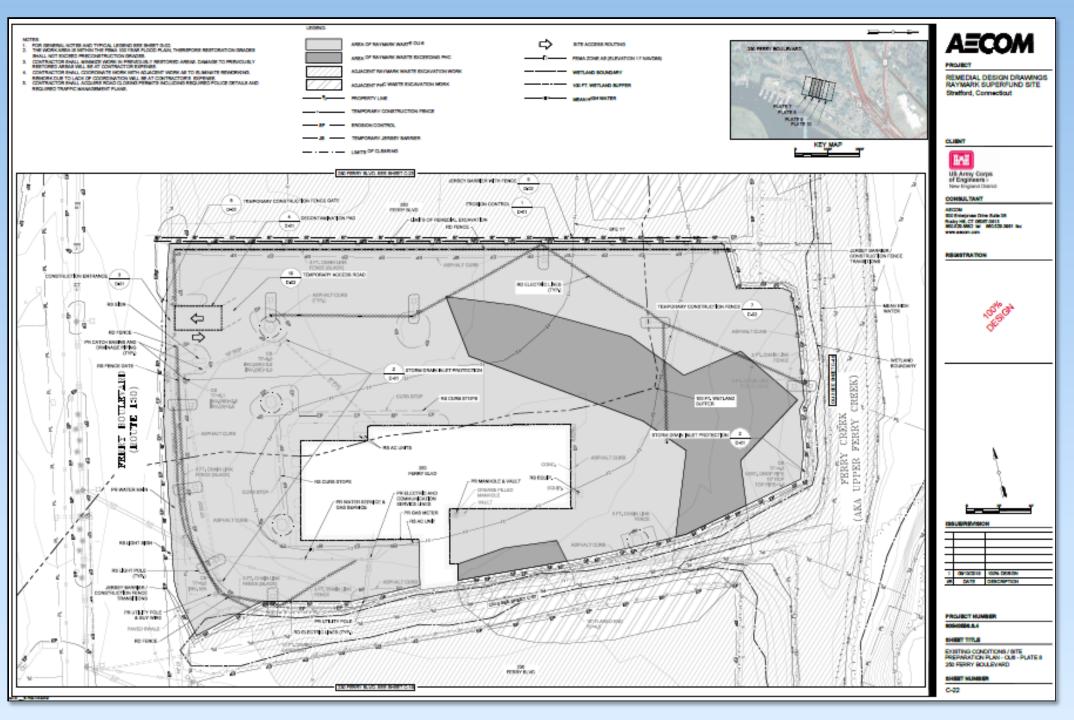






Wiz Auto 250 Ferry Blvd

- Started on Sept 21
- Phased approach
- About 3 months
- est. 8,220cy (600 lds)
- PHC est. 1,750cy (150 lds)



Wiz Auto

RW: light gray

PHC: dark gray

OU6 Area	Location	Excavation Dates	Volume (cy)	Number of truck trips?	Number of Properties	Notes
Glyne Manufacturing	380 East Main	Sept 16 -17, 2020	51.70	4	1	Phase 1 ELUR needed
Karate Studio	190 Ferry Boulevard	Dec 2 - 10, 2020	87.31	10	1	Phase 1 ELUR needed Not in 2016 ROD
Liquor Store	200 Ferry Boulevard	Dec 2 - 10, 2020	481.83	64	1	Phase 1 ELUR needed
DOT ROW along 190/200 Ferry Blvd	190/200 Ferry Boulevard ROW	Dec 2 - 10, 2020	109.30	11	1	Phase 1 ELUR needed Not in 2016 ROD
DOT Exit 33	Barnum Ave	Jan 19 – 20, 2021	345.57	19	1	DOT via Haul Road <mark>Not in 2016 ROD</mark>
Ashcroft (front), Dry Cleaner and Hair Salon	250, 304 and 340 East Main Street	Feb 16 – April 19, 2021	2,785.3	251	3	Phase 1 ELUR needed
			794.60	60	3	To Emelle, Al
302/350 East Main Street	302/350 East Main Street	Sept 15 - 16, 2021	127	9	2	Phase 2 ELUR needed Not in 2016 ROD
DOT ROW	Ferry Blvd and East Broadway	Sept 20 to Oct 1, 2021	430	47	1	Phase 2
		Supp on March 31, 2022	48	6		
171 Ferry Blvd	Snaxx Plus Convenience Store	October 4 to 19, 2021	389	41	1	Phase 2 ELUR needed Not in 2016 ROD
Ashcroft Rear	250 East Main Street	June 9 to Nov 3, 2021	9,281	745	1	Phase 2 ELUR needed
			377	35	1	To FTS/bind lead
Wooster Park	Quail Street	Nov 9, 2021 to Jan 5, 2022	4,872	433	1	Phase 1 ELUR needed
			130	15	1	To FTS/bind lead
Vacant Lots	Behind 326 FB	Jan 18 to 2022 to May 11, 2022	9,622	905	2	Phase 2 ELUR needed
			1,362	121	2	To FTS/bind lead
Hitchcock Marine	230 Ferry Blvd	June 13 to July 27, 2022	4,974	457	1	Phase 3 ELUR needed
			715	72	1	To FTS/bind lead
TOTALS TO DATE =		Raymark Waste	33,217	2,881	17	
		PHC Waste	3,379	303	8	

OU6 Remediation Tracking Table

PHC volumes in RED font

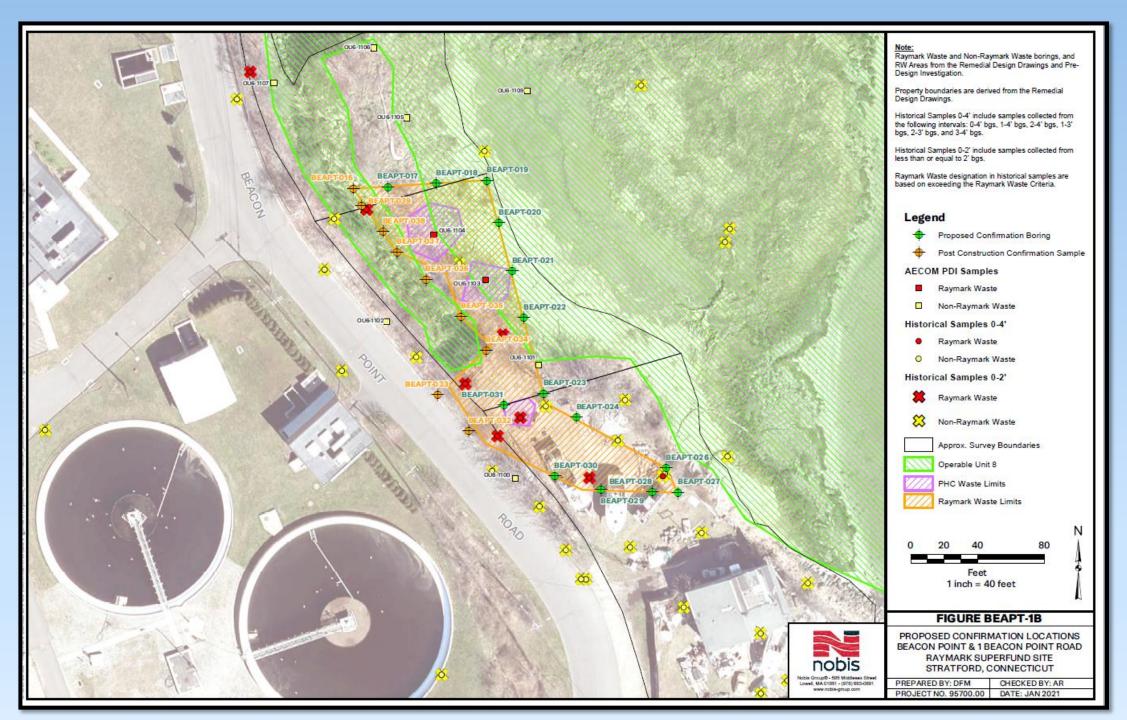
Remaining OU6 Properties

17 properties completed9 properties remaining

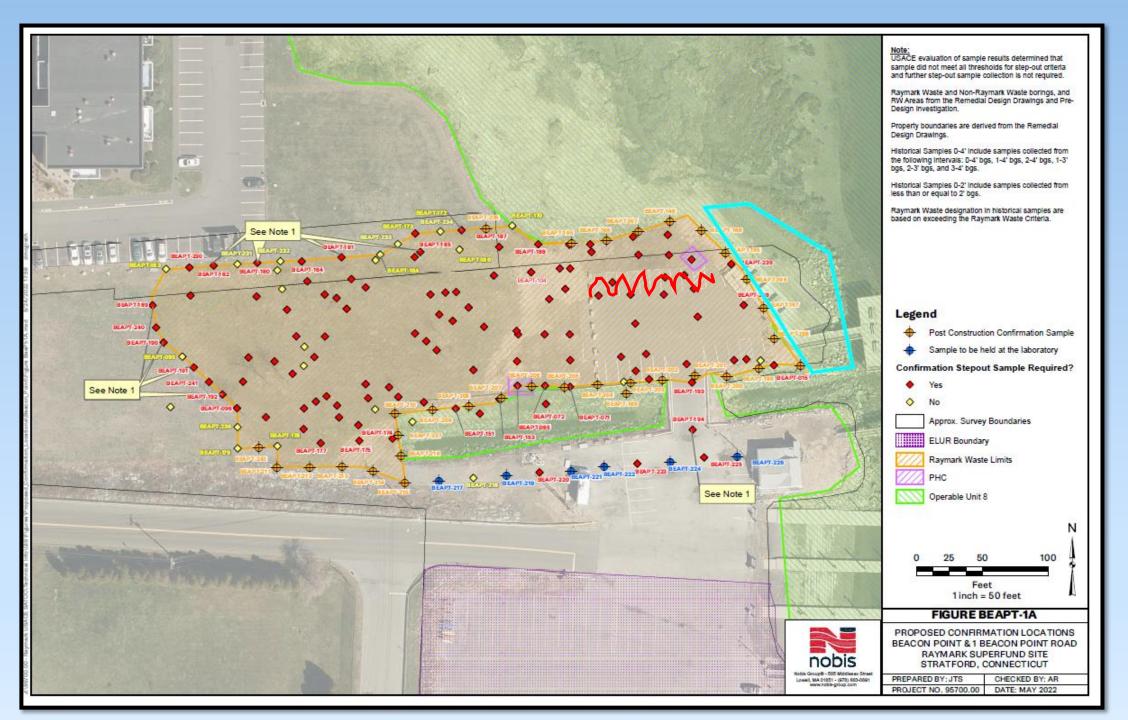
Beacon Point Area (January to May 2023)



- 3 Areas of Concern (AOCs)
 - AOC-1: Town and Private Boat Yard
 - AOC-2: 2011 ROD/ELUR in place
 - AOC-3: Town and Condo
- RW: est 11,000 yds (700 lds)
- PHC: est 250 yds (20 lds)
- Coastal Resiliency
 - Raise elevation by 1 foot
 - Excavate 3ft; replace 4ft



AOC-1

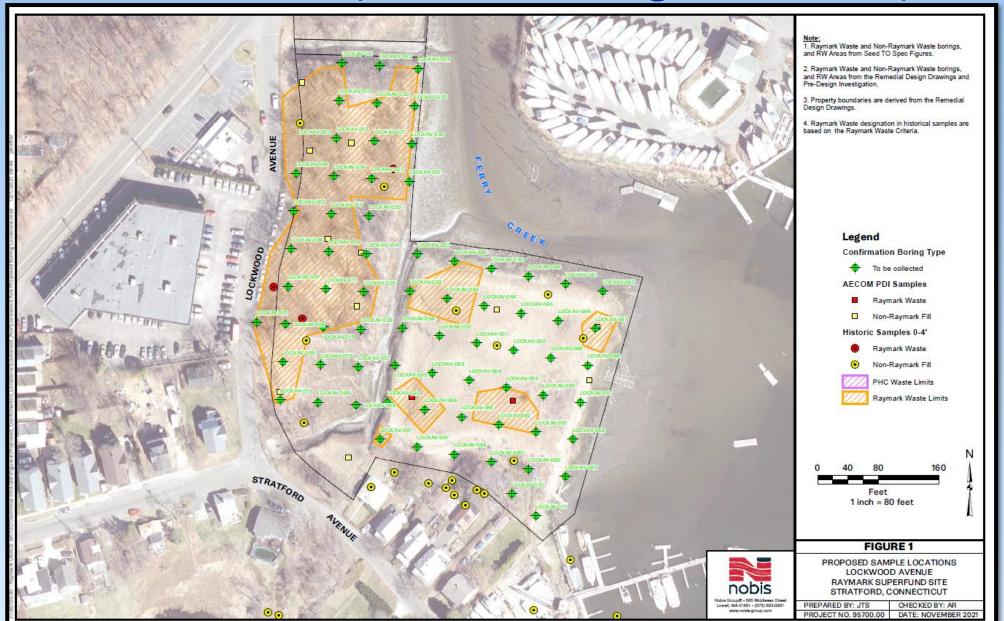


AOC-3

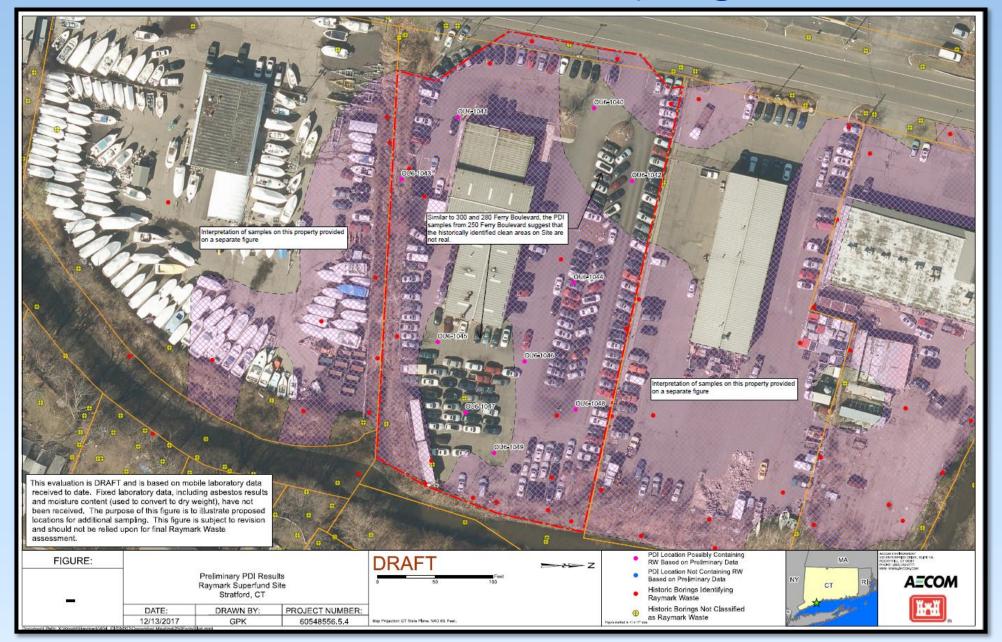
Protect or replace dock

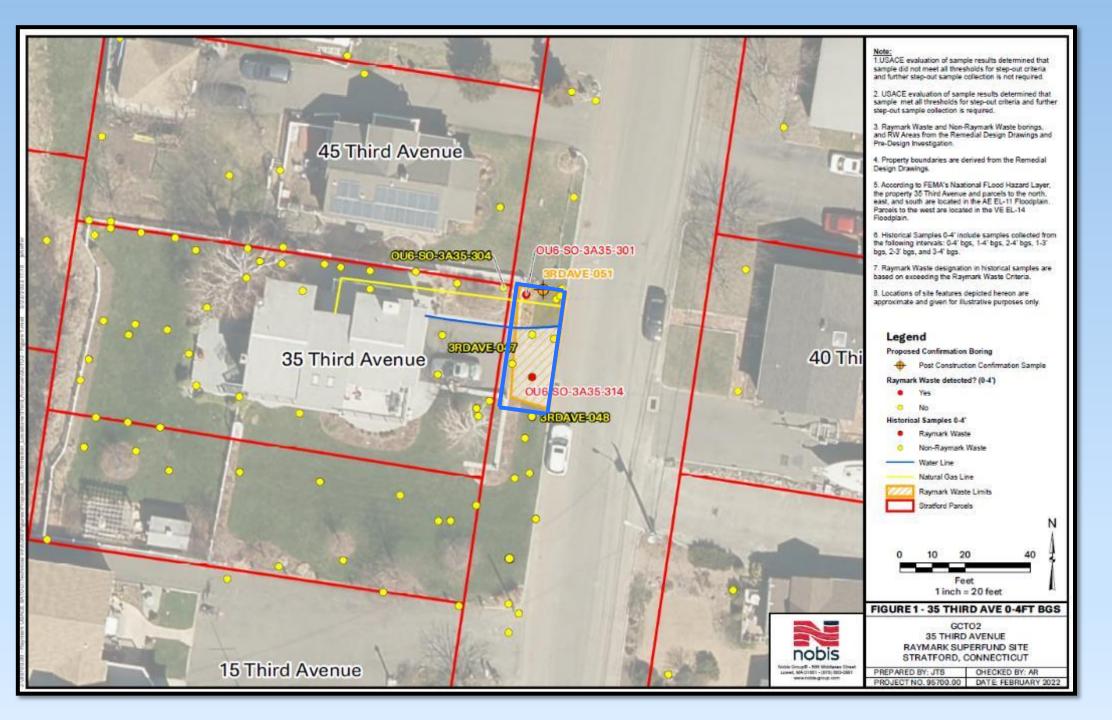
Remove pavement nearest wetlands

Lockwood (June to August 2023)



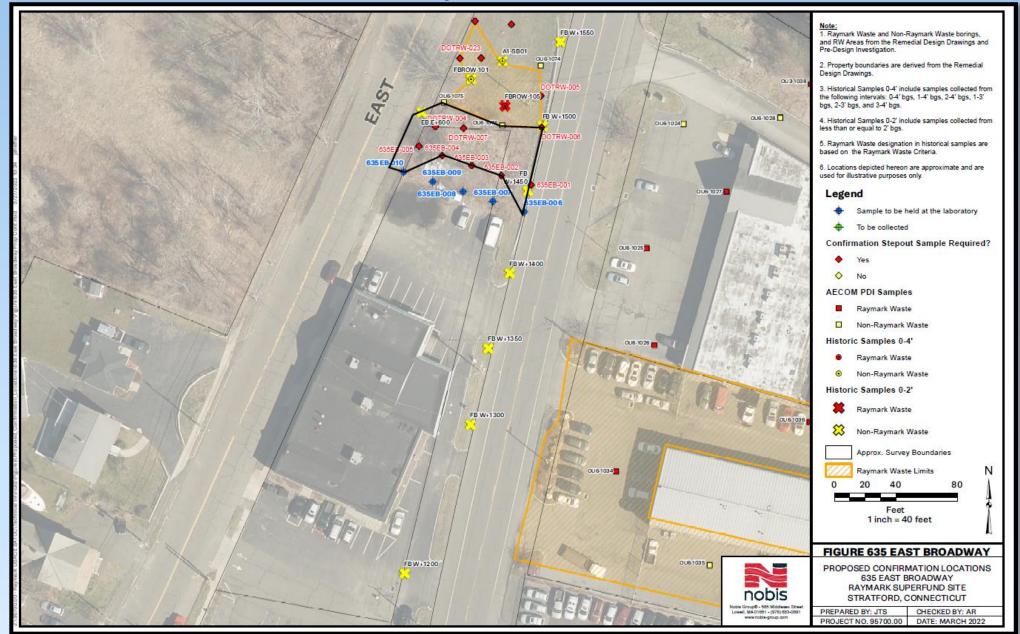
Blasius Auto and EPA Office (Aug to Dec 2023)





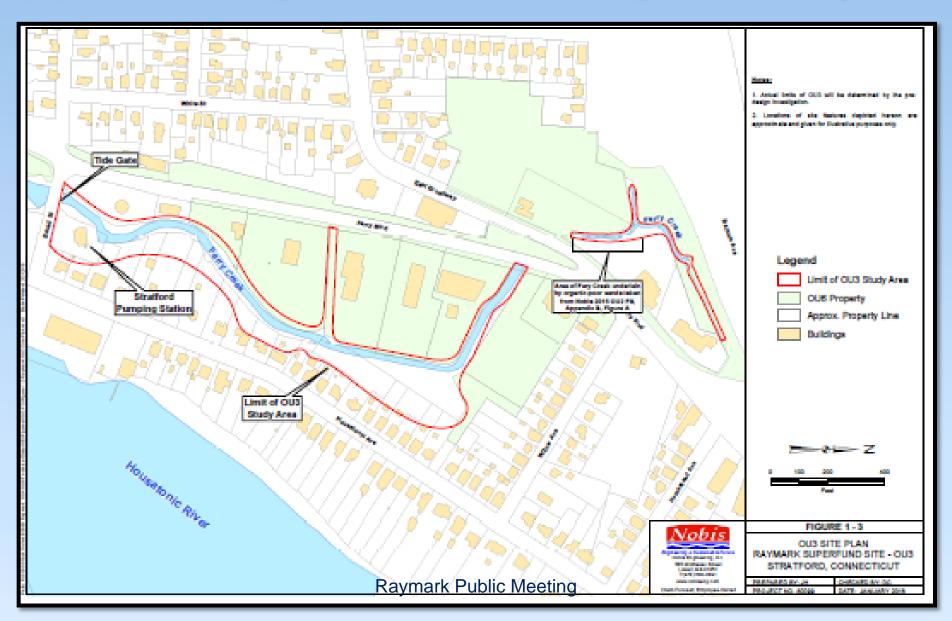
Third Ave ROW

635 Ferry Boulevard



OU3 Ferry Creek

Upper Ferry Creek Study Area (OU3)



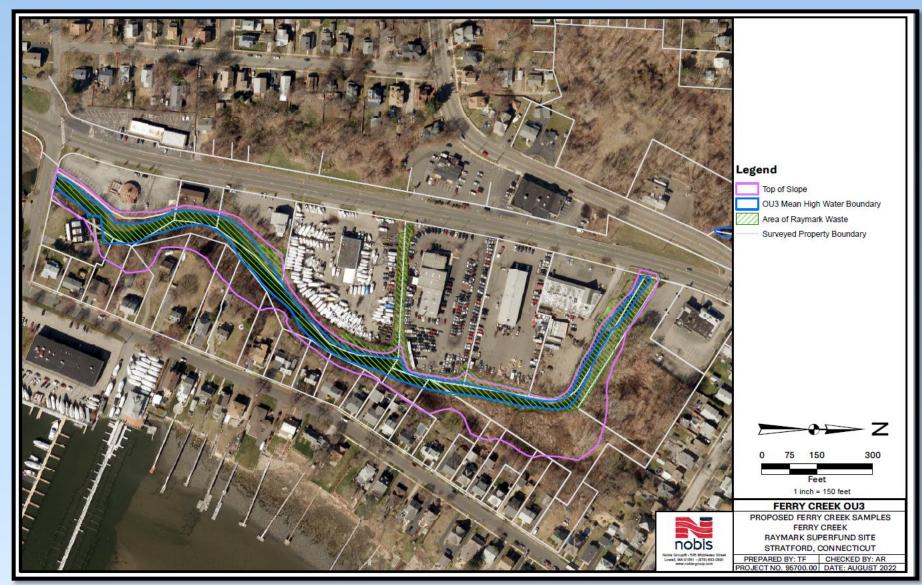
Aerial Photography

1960 1969



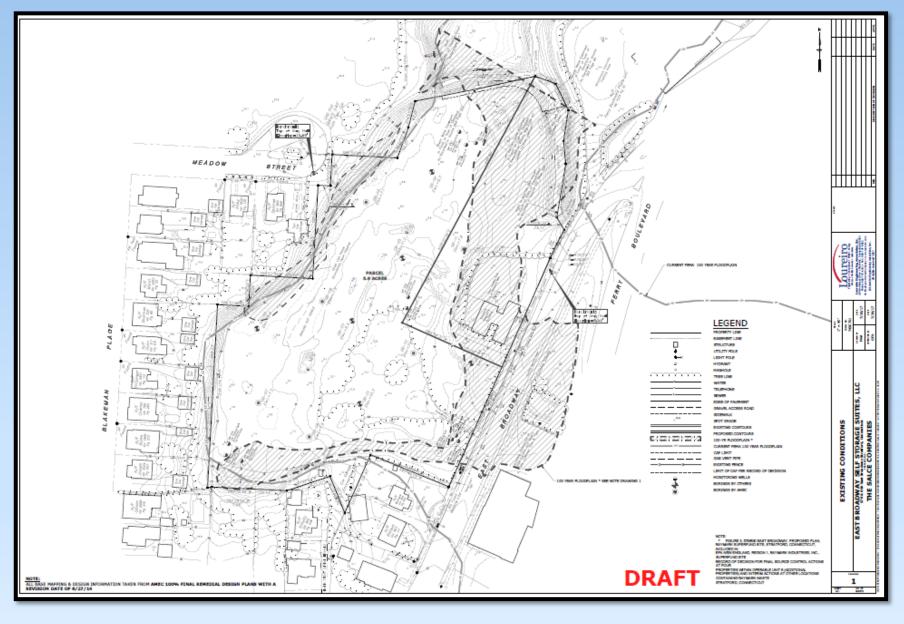


Ferry Creek Remediation (2023)



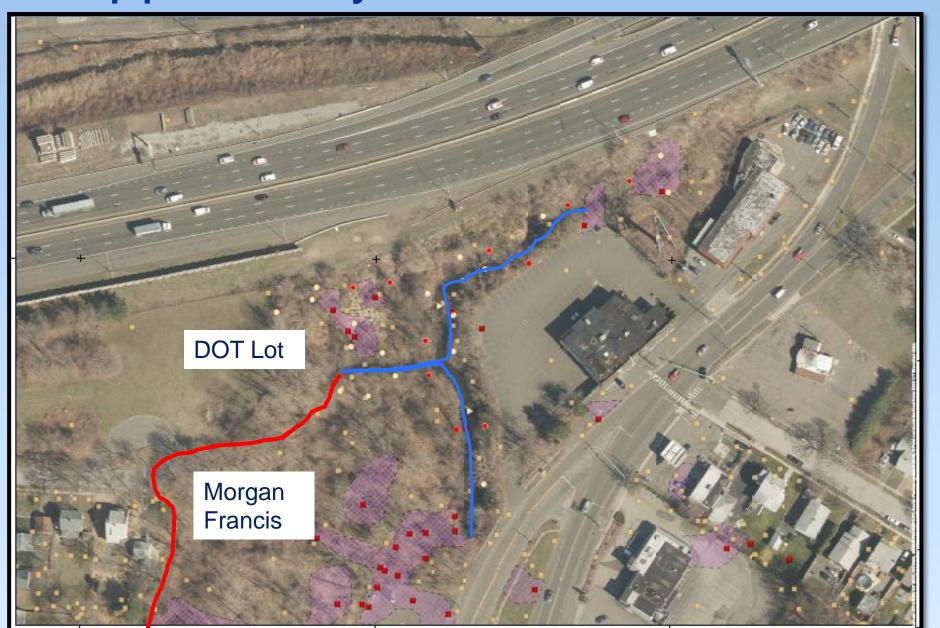
- Ferry Blvd to Broad
 Street
- About ½ mile
- Channel: 2ft of sediment
- Portions of banks: 4ft
- Total volume estimate:
 - Approx. 16,000 CY

576/600 East Broadway - Morgan Francis



- 2011 ROD
- 2014 design
 - Cap in place
 - Storage units
- Update design
 - Recreational use
 - Consolidate adjacent RW
- Remedy decision in 2023

Upper Ferry Creek and DOT Lot



OU4 Updates

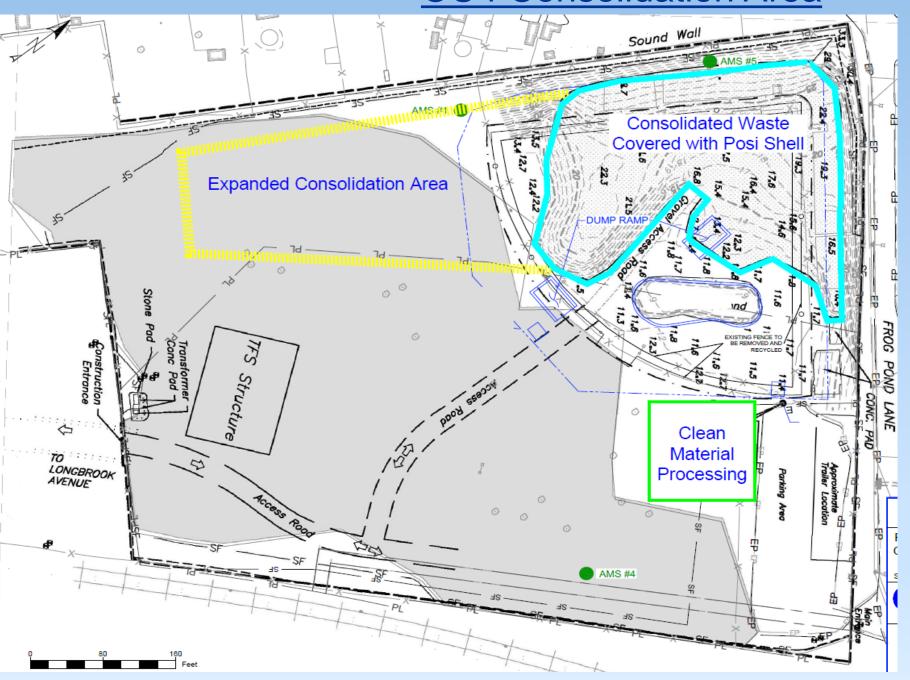
OU4 Ballfield Work Completed or Ongoing Since July





- Approximately 34,000 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 conveyance line construction underway, open channel work is complete
- Pumpstation contract has been awarded and preparatory work has begun
- Former Ballfield / OU4 site and cap design is complete
- 5 perimeter air monitors at OU4 are operating daily
- Second live stream camera view available

OU4 Consolidation Area

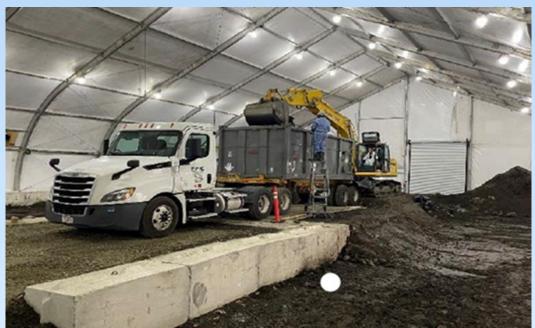


- Approximately 34,000 CY of material has been consolidated, compacted and covered
- Active consolidation area accepting material from 250 Ferry Blvd. (Wiz Auto)
- Clean material processing area located off active consolidation zone
- Posi-shell or approved cover placed over waste at end of each day
- Elevation markers added



OU4 Consolidation

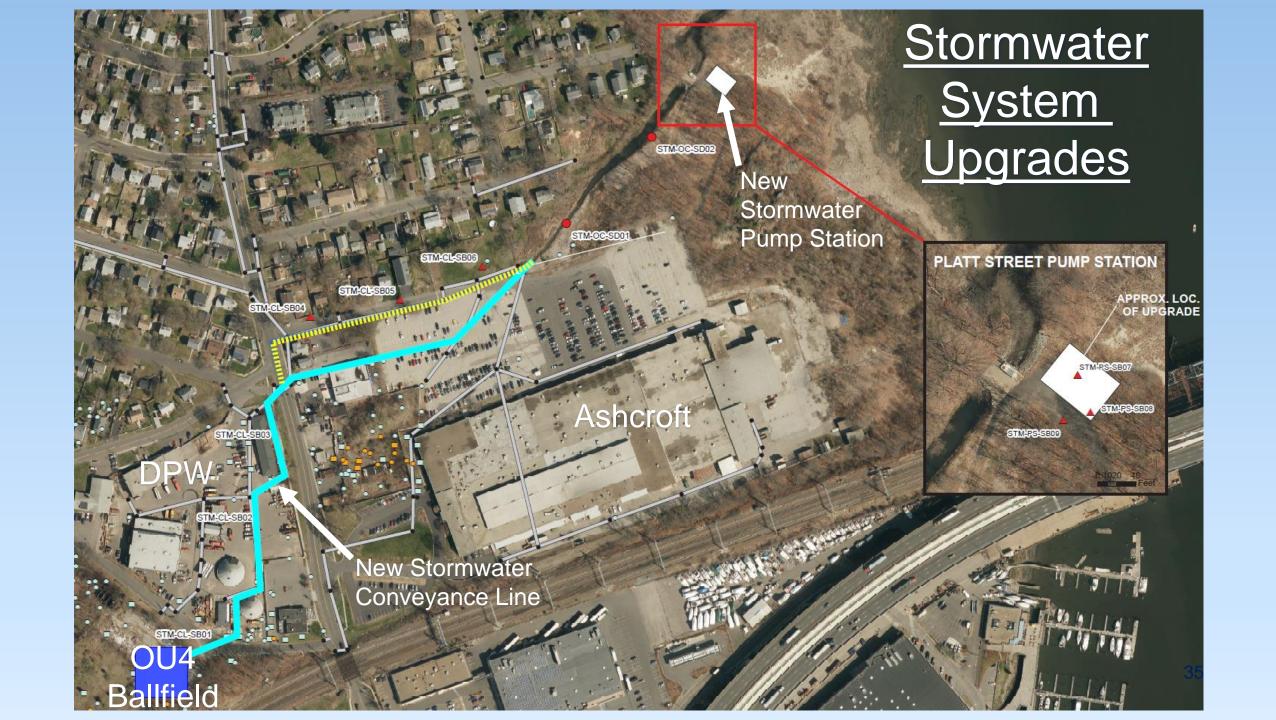
<u>Area</u>







OU4 Stormwater System



Conveyance Line - Open Channel





- Remove unsuitable soft and organic material
- Backfill with crushed stone and geotextile



Channel Armoring and Restoration

- Place Articulating Concrete Block (ACB)
- Restore native plants and shrubs along bank

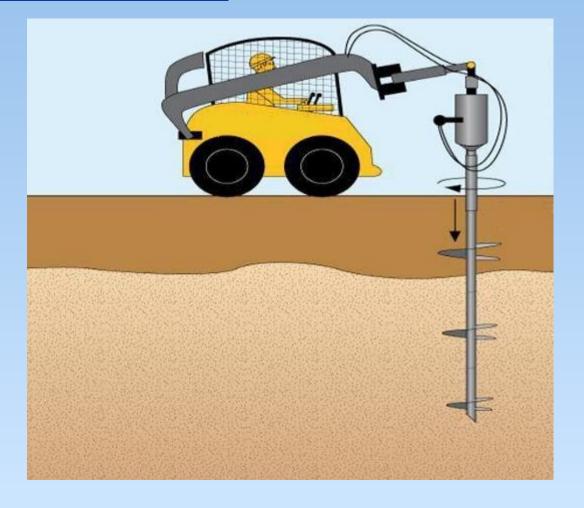
Conveyance Line – Open Channel





Conveyance Line – Box Culvert





Box Culvert

- 3' x 5' at OU4 to 3' x 10' at Open Channel
- Carry clean stormwater from OU4

Helical Pile installation

- Helical piles installed to support culvert
- Piles will be rotated into place



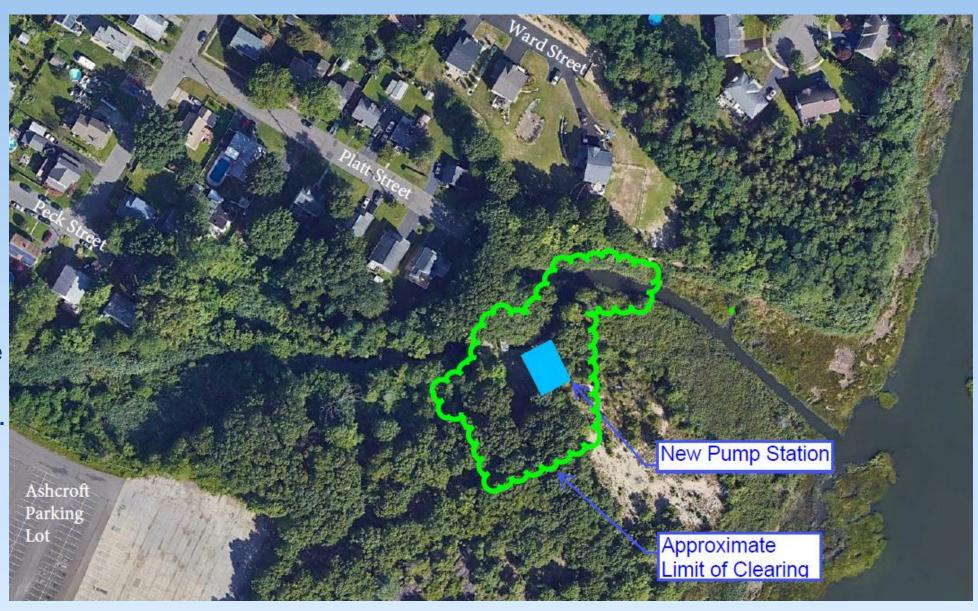
New Pump Station

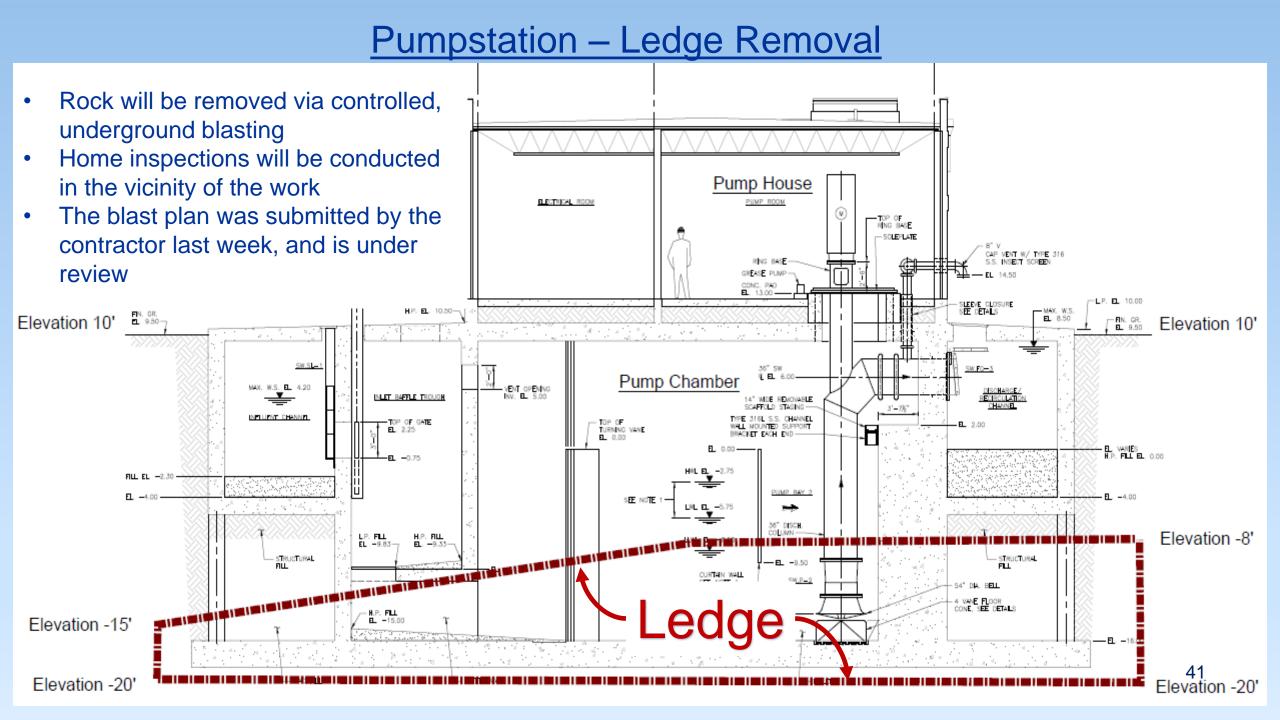
- Contract Awarded to P&S Construction
- Site preparation underway
- Construction duration approximately 24 mo.
- 4 Axial Flow Pumps
- 200 CFS Capacity
- Operates during significant storm and highwater events
- Masonry Pumphouse



Pumpstation – upcoming site work

- Site tree and brush clearing is starting now, approximately 2 weeks to complete
- required to remove approximately 5-12' of underground ledge (rock) within the pumpstation footprint.





Pumpstation - Ledge Removal



- Maine Drilling and Blasting
- Approach is to minimize ground vibrations as much as possible
- Home inspections will be conducted in the vicinity of the work
- The blast plan was submitted by the contractor and is under review
- EPA and USACE will coordinate with homeowners for home inspections
- Vibration monitors will be deployed
- Each blast event will generally occur between 10:00 AM and 11:00 AM
- It is estimated that there will be approximately 10 blast events over a period of 3 weeks
- Work is expected late Fall/early Winter pending plan review
- Site access will be secured
- Multiple 6000 lb blasting mats will be utilized

<u>Underground blasting – Gas Station</u>



<u>Underground blasting – New College Science Center</u>



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
 (OU6) when Raymark Waste handled.
 - 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
- Weekly Air Monitoring, Chemical Data and Vibration Monitoring Reports posted on Town Raymark website



Dust Monitoring Station



Chemical Sampling Port

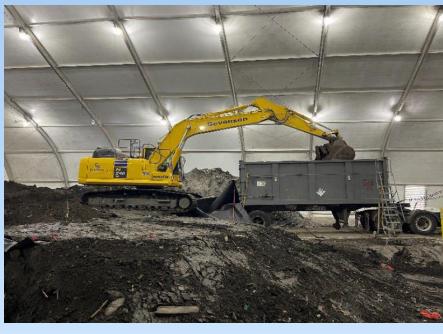


Personnel Monitoring

Monitored Tasks – OU4 and Stormwater Conveyance System (SWC)

- OU4 5 Dust Meters, 2
 Chemical Sample Collection
 Systems (during handling of PHC Waste Only), 5
 Vibration Stations
 - Loading PHC Soil for Offsite Disposal,
 Spreading SWC material and Applying Posi-shell
- SWC (No Intrusive Work in RW) - 1 Vibration Station, No Dust Monitoring
 - Installing Helical Piles,
 Soil Excavation, SWC
 Restoration

SWC Helical Piles



SWC Restoration



OU4 TFS



Monitored Tasks – OU6

- 300 Ferry Blvd Sewer Line Repair 1 Dust Meter
- 250/280 Ferry Blvd Vegetation Clearing (No Intrusive Work in Raymark Waste) 1 Vibration Station, No Dust Monitoring
- 230 Ferry Blvd Restoration 3 Dust Meters and 1 Vibration Station

300 Ferry Blvd 280 Ferry Blvd 230 Ferry Blvd





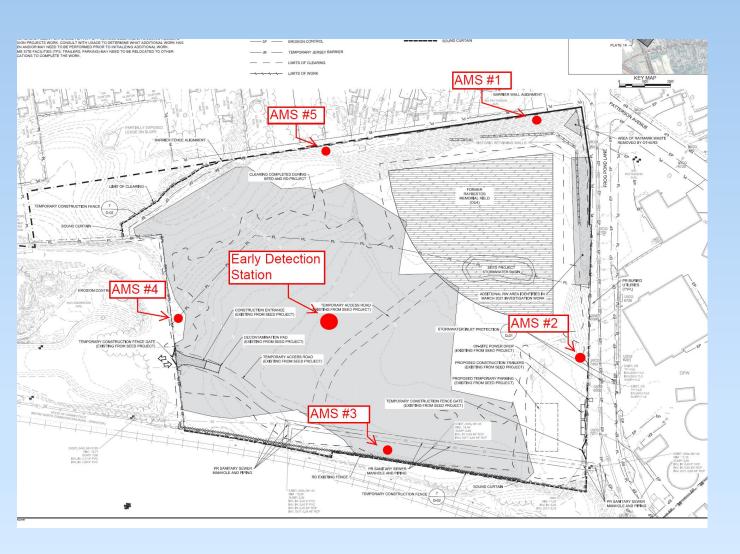


OU4 - Access Road Excavation Temporary Construction Consolidation Area Proposed Construction Erosion Contamination Reduction Zone Exclusion Zone Control primary wind direction on the sample collection day. A meteorologica system will be continuously used to document daily site conditions.

Air Monitoring Results

- Since 07/27/22 Public Meeting No Exceedances of OU4 or OU6 Dust Action Level Criteria
- No Chemical Action Levels Exceeded
- No Health and Safety Risks to Workers or Residents
- Exceedance of vibration criteria were identified on 7/25, 8/7, 8/8, 8/9, and 9/13. This was caused by thunder/weather and not site activities

Upcoming Changes



- Adding additional meter at OU4 (monitor worker exposure)
- Representative of perimeter and interior work area

Project Schedule

Consolidation Remedy Schedule

OU6

- 2022 Fall Wiz Auto Dealership
- 2023 Winter/Spring Beacon Point
- 2023 Summer Lockwood Ave
- 2023 Fall Blasius Dealership
- 2023 Fall/last: EPA Office/Former Ski Shop
- TO BE SCHEDULED: 3rd Ave ROW and 635 East Broadway

OU3

2023: Ferry Creek (East Broadway to Broad St bridge)

OU4

- 2024: Construct cap



Construct Stormwater And Pump Station

Morgan
Francis
Design and
Start
Remedial
Action



Next CAG Meeting November 30 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

Thank you for joining!

- Visit <u>stratfordct.gov/Raymark</u> for updates, contact information, air monitoring results, meeting dates, meeting recordings and Powerpoint slides
- Email Alivia at: <u>acoleman@townofstratford.com</u> with further questions, concerns, feedback or to sign up for email distribution list.

Help Update Stratford's POCD!

- The Plan of Conservation and Development (POCD) is the Town's land use guide for managing growth and conserving resources.
- Learn more and provide your input at <u>www.planstratford.com</u>

