

WATERSHED INSPECTION GUIDELINES OVERVIEW

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2022 WATERSHED INSPECTION GUIDELINES

- ▶ https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/drinking_water/pdf/Watershed_Inspection_Guidelines.pdf



WATERSHED INSPECTIONS

- ▶ Critical component of an effective source water protection program
- ▶ Review proposed development projects
- ▶ Land use and zoning changes
- ▶ Monitoring active construction site
- ▶ Monitor sites w/ land use activities that pose increased potential for pollution
- ▶ Collaborate with municipalities and state/local regulators to mitigate and correct pollution sources

- ▶ Utilize GIS for watershed boundary delineation and prioritization of inspection sites
 - ▶ CT ECO Maps and Geospatial Data: <https://maps.cteco.uconn.edu/>
 - ▶ Drinking Water Section Watershed GIS Map Viewer: <https://maps.ct.gov/portal/home/webmap/viewer.html?webmap=e942130a2a9f485ab03d8f79d76abb6e>
 - ▶ Parcel Prioritization for Source Water Protection: <https://experience.arcgis.com/experience/36ca1e3c376444e6a60ad6899ec71da7/>
- ▶ Digital tools can be used in lieu of paper records to store data and geospatially locate data points of interest

MAPS AND RECORD KEEPING

MAPS AND RECORD KEEPING

Watershed Inspection Form	
Inspector Name(s)	
Inspection Date	
Watershed Name	
System/Public Water System	
Town	
Property Address	
Property Owner Name	
Occupant Name (if different than Owner)	
Land Use	Residential/Commercial/Industrial/Forested/Active Construction/Agriculture/Conserved/Abandoned/Restaurant/Office/Gas Station/Other
Sanitary System Type	Septic/Sewer/Other
Sanitary System Proximity to Watercourse	Less than 50'/Less than 100'/Greater than 100'
Septic Type	Conventional System/Chamber System/Drip Distribution System/Aerobic Treatment Unit (ATU)/Mound System/Recirculating Sand Filter System/Evapotranspiration System/Constructed Wetland System/Cluster or Community System/Other
Septic Condition	Good/Fair/Poor/Unknown/Not Applicable
Septic: Installation Date	
Septic: Last Repair Date	
Septic: Last Pumped Date	
Septic: Other Notes	
Water Source	Well/Public/Unknown
Water Source Notes	(Use of well if present [drinking water, irrigation, livestock watering, etc.])
Heating Source	Oil/Natural Gas/Electric/Other/Unknown
Fuel Storage Condition	Good/Fair/Poor/Not Applicable
Fuel Storage Location	Above Ground/Underground/Interior/Unknown
Fuel Storage Notes	Note tank contents, size, material, age, secondary containment, cathodic protection, automated metering system. Determine compliance of non-residential USTs with CT DEEP registration/testing requirements.

Chemical Storage Condition	Good/Fair/Poor/Not Applicable
Chemical Storage Notes	List of chemicals used and stored on property.
Stormwater Management System Condition	Good/Fair/Poor/Not Applicable
Stormwater Management Notes	Description of stormwater management system (i.e. catch basins, detention areas, drywells, municipal system tie-ins, rain gardens, bioswales) Inquire about routine maintenance.
Livestock/Horses?	Yes/No
Manure Storage Condition	Good/Fair/Poor/Not Applicable
Manure Removal Frequency (CT Public Health Code Section 19-13-B21)	
Animal Structure?	Yes/No
Animal Structure Proximity to Watercourse (CT Public Health Code Section 19-13-B32)	Less than 50'/Less than 100'/Greater than 100'
Floor Drains?	Yes/No/Unknown
Erosion/sediment control issues?	Yes/No
Potential Backflow Concern?	Yes/No
Dumpsite?	Yes/No
Greywater/Wastewater Concern?	Yes/No
Past Violations?	Yes/No/Unknown
Past Violation Years	
Other Notes	

WATERSHED INSPECTION APPLICATION

Watershed Inspections

Inspections Update Database Tables Synchronize Exit Application

Inspections By Town

- ANSONIA
- BETHANY
- BRANFORD
- CHESHIRE
- DERBY
- DURHAM
- EAST HAVEN
- GUILFORD
- HADDAM
- HAMDEN
- KILLINGWORTH
- MADISON
- MILFORD
- NEW HAVEN
- NORTH BRANFORD
- NORTH HAVEN
- ORANGE
- PROSPECT
- SEYMOUR
- SOUTHINGTON
- WALLINGFORD
- WEST HAVEN
- WOLCOTT
- WOODBIDGE

Watershed Inspections

Inspections Update Database Tables Synchronize Exit Application

Inspections By Town

- ANSONIA
- BETHANY
- BRANFORD
- CHESHIRE
- ALLEN AV
- ALLEN CT
- AMHERST DR
- AMHERST PL
- APPLEWOOD DR
- ARGYLE RD
- ARROW LEAF CT
- ASHLEY CT
- ASPEN DR
- AUTUMN CT
- AVON BLVD
- BARKLEDGE CT
- BARYTES DR
- BATES DR
- BAYBERRY RD
- BEACON HILL DR
- BEARPATH CT
- BELLAMY RD
- BELRIDGE RD
- BETHANY MTN RD
- BETHANY WOODS
- BIRCH DR

Watershed Inspections

Inspections Update Database Tables Synchronize Exit Application

- PONDSIDE PL
- POPLAR DR
- POUND RIDGE RD
- PRIMROSE CT
- PUTNAM PL
- RABIDEAU CIR
- RACEBROOK DR
- RADMERE RD
- RAILROAD AV
- 51 CHESHIRE CROSSFIT
- 96 VACANT
- 111 CHESHIRE COATING CO
- REALTY DR
- RED OAK PL
- RED STONE DR
- REDWOOD LA
- REMUS RD
- RIDGECREST DR
- RIDGEVIEW
- RIVER VIEW CT
- RIVERSIDE DR
- ROARING BROOK RD
- ROBIN LN
- ROCKVIEW DR
- ROLLING ACRES
- ROMULUS RD
- ROSLYN DR

Inspection Maintenance - Create New Inspection Information For: RAILROAD AV

EXIT UPDATE PREV

Location

Town: CHESHIRE Street: RAILROAD AV Street List: RAILROAD AV RAILROAD AVE Street Number: 96

Search Scroll Clear Search

Violations

- 06A PAINT WASTE SPILL
- 06B OIL SPILL
- 06C SOLVENT SPILL
- 07A NON-PERMITTED FLOOR DRAIN

Violation Associated to Inspection: 06D FUEL SPILL

1 violation(s) have been documented for this site. Last Inspection completed c...

Inspection Data

Water System: MILL RIVER Water Shed: WHITNEY Last Inspection Date: 02/24/2025 Last Inspector: EM

Business Description: HARDWARE/LUMBER Resident - Company: VACANT

Land Use: A PFAS: No Interviewee: Current Inspector: EM Current Inspection Date: 03/12/2025

Comments

Structure fire occurred in the early hours of 2/22. Conversation with Cheshire FD and DEEP - 2 ASTs containing #2 heating fuel impacted from incident. 100g released from one AST and 50g released from the other. Water used to put out fire, heavily diluted any released fuel. No AFFF used. Wetlands to the south impacted from fuel release. DEEP worked to remediate impacts to wetlands. Willow brook was not affected. Over a dozen oil booms deployed throughout parking lot, focusing on catch basin directly south of building, and drainage outflow to wetlands to the south. Any material that managed to enter the public water supply presumably heavily diluted before reaching Lake Whitney. Minimal impacts to source waters.

Fuel Type: Oil 5 275 AG FOR LUMBER COMP

Water Type: PUBLIC

Waster Water Type: SEPTIC

Hazard Chemical Storage

PUBLIC HEALTH CODE VIOLATIONS

- ▶ Public Health Code RCSA Section 19-13-B32: Sanitation of Watersheds
 - ▶ 19-13-B32(b): Sewage System located within 100 feet of reservoir or 50 feet of watercourse
 - ▶ 19-13-B32(c): Failing/Inadequate Sewage System anywhere within the watershed
 - ▶ 19-13-B32(d): Surface Discharge of Sewage anywhere within the watershed
 - ▶ 19-13-B32(e): Manure storage/Animal Structures within 100 feet of reservoir or 50 feet of watercourse AND no animal structures anywhere within watershed unless approved by the Commissioner
 - ▶ 19-13-B32(f): Improper storage/disposal of toxic metals, gasoline, oil, pesticide
 - ▶ 19-13-B32(g): Improper use/storage of fertilizer
 - ▶ 19-13-B32(h): Improper use/storage of sodium (deicing agent)
 - ▶ 19-13-B32(i): Erosion Control Problems/Stormwater System Discharge within 100 feet of Watercourse

SPILLS

- ▶ Respond according to Emergency Spill Control Plan
- ▶ DEEP Oil and Chemical Spill Response Unit – 860-424-3338
- ▶ Examples:
 - ▶ Overturned/leaking tanker truck containing fuel oil, gasoline, hazardous chemicals, etc.
 - ▶ Leaking automotive fluids resulting from motor vehicle accident
 - ▶ Fires or accidents with fire department wash down
 - ▶ Sanitary sewer line failure
 - ▶ Harmful chemicals or materials deposited in or near watercourses
 - ▶ LUST

REPORTING VIOLATIONS

- ▶ When identified, record the violation and try to resolve on site
 - ▶ If unable to resolve on site, notify the appropriate enforcement agency

- ▶ Annual sanitary survey report due to DPH Drinking Water Section by March 1 of the following year

Public Health Code Violation Contact Guide						
19-13-B32 subsection	Violation	Sanitarian	Fire	ZEO	DEEP	DPH
(b)	Sewage system located within 100 feet of a reservoir or 50 feet of a watercourse	X				Annual report March 1, Otherwise report only egregious violations
(c) & (d)	Failing Septic/Sewage disposal on the surface of the ground	X				
(e)	Any livestock/chicken structure where excrement is allowed to accumulate within 100 feet of a reservoir or 50 feet of a watercourse			X	X	
(e)	Any livestock/chicken structure within the watershed and not approved by the Commissioner			X	X	

Public Health Code Violation Contact Guide						
19-13-B32 subsection	Violation	Sanitarian	Fire	ZEO	DEEP	DPH
(f)	Improper storage/disposal of toxic metals, gasoline, oil, pesticide		X		X	Annual report March 1, Otherwise report only egregious violations
(g)	Improper use/storage of fertilizer				X	
(h)	Improper use/storage of sodium (deicing agent)				X	
(i)	Stormwater system discharge within 100 feet of watercourse and/or erosion issues due to improper stormwater controls			X		

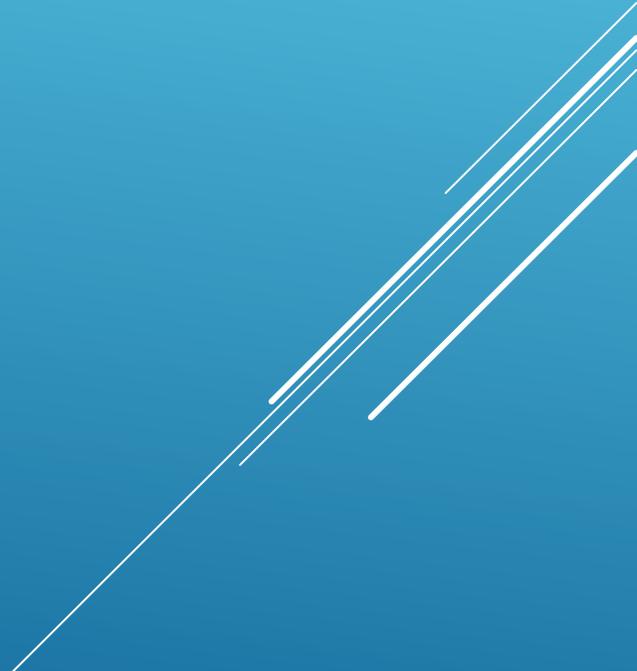
- ▶ The entire watershed to the intake should be inspected annually; more frequently if resources allow
- ▶ Watershed Inspection Programs seek to identify water quality issues, but also as a means for public outreach and education
- ▶ RCSA Section 19-13-B102(b) and CGS Section 25-51
- ▶ Visible company ID, business cards, etc.
- ▶ If refused access to property, politely leave to avoid escalating the situation and document the refusal
- ▶ Take lots of photos
- ▶ Inspection procedures differ from site to site

CONDUCTING INSPECTIONS

GENERAL INSPECTIONS

- ▶ Storm Drainage Outlets and Catch Basins
- ▶ Waterbodies
- ▶ Dumping
- ▶ Tank Trucks
- ▶ Bridge/Road Improvements, Construction Sites, Gravel Mining, Logging
- ▶ Encroachments
- ▶ Erosion and Sedimentation
- ▶ Construction Contaminated Environmental Media
- ▶ Animals
- ▶ Invasive Aquatic Species and Pesticide Use

RESIDENTIAL INSPECTIONS

- ▶ Sanitary Systems
 - ▶ Heating Source
 - ▶ Domestic Drains and Discharge Points
 - ▶ Fertilizer/Pesticide Use
 - ▶ Dumping
 - ▶ Home Occupations
- 
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COMMERCIAL/INDUSTRIAL INSPECTIONS

- ▶ Sanitary Systems
 - ▶ Heating Source – Fuel Storage Tanks
 - ▶ Wastewater Discharge
 - ▶ Floor Drains
 - ▶ Water Source
 - ▶ Chemical Handling
 - ▶ On-Site Hazards
 - ▶ Stormwater Drainage Systems
 - ▶ Fertilizer/Pesticide Use
 - ▶ Potential PFAS Generator Sites
- 

REGIONAL WATER AUTHORITY

Average 45 Million Gallons of Water Per Day

Serve ~430,000 Customers

Ten active reservoirs

Four surface water treatment plants

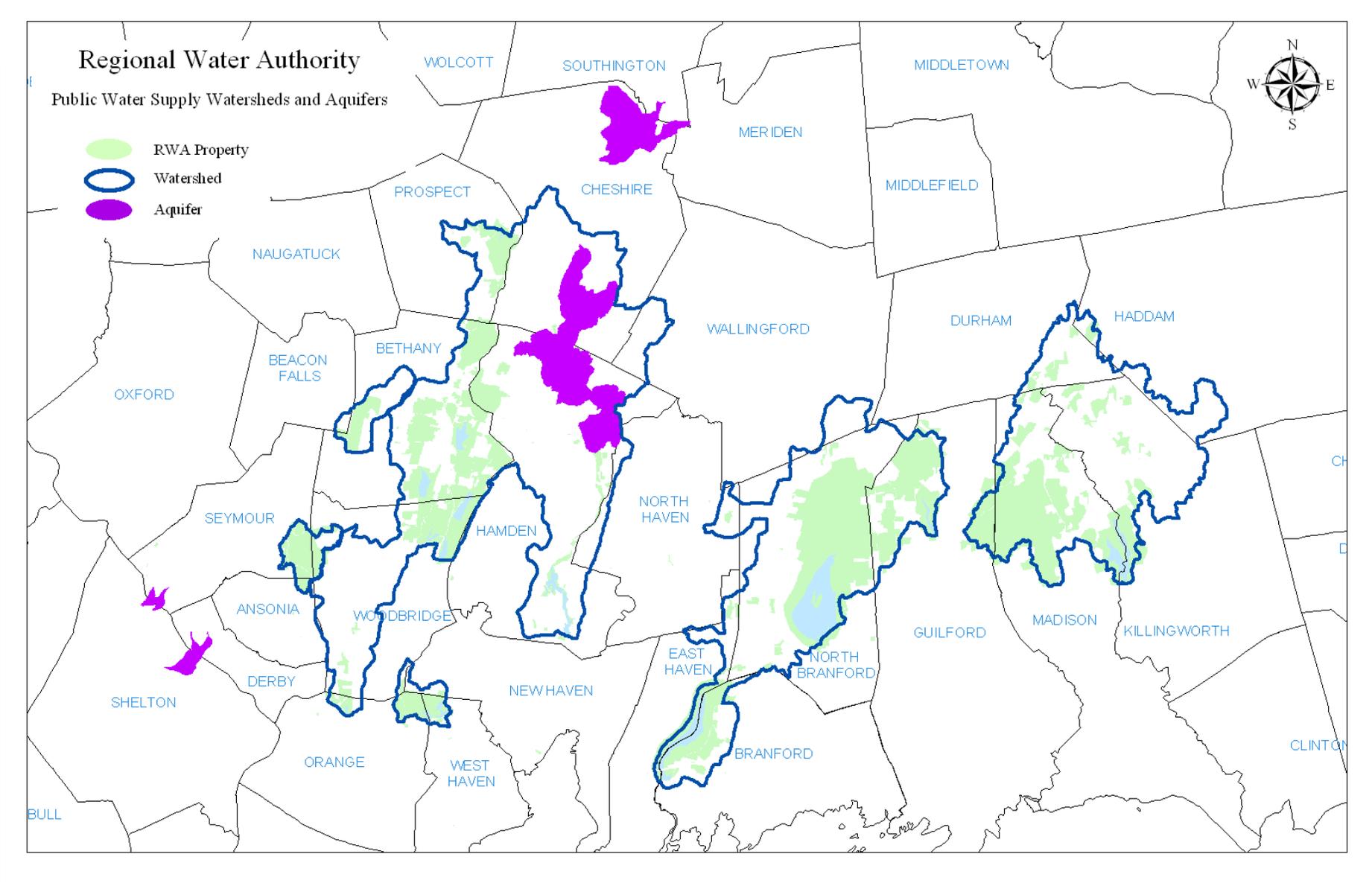
Seven wellfields

Maintain 1,700 miles of pipe

Own over 27,000 acres of land

60+ miles of recreational trails

Regional Water Authority Watersheds and Aquifers



WHAT WE'RE UP AGAINST



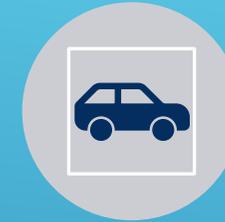
140 SQUARE MILES
OF AQUIFERS AND
WATERSHEDS



OVER 50,000
INSPECTION SITES



OVER 280 HIGH RISK
SITES



OVER 150
GARAGES AND
GAS STATIONS



I-95 CROSSING
OVER A RESERVOIR

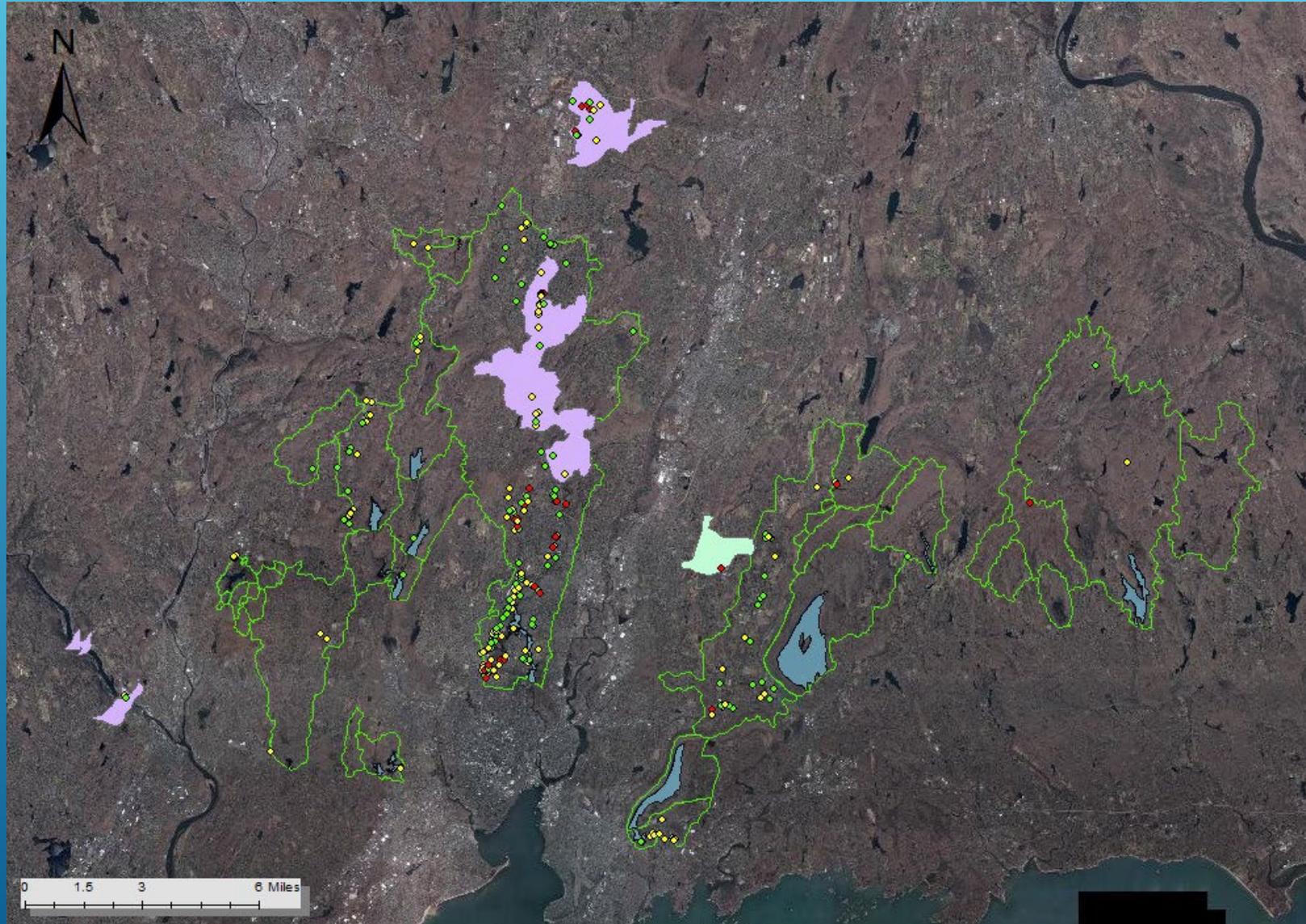


SANITARY SEWER
SYSTEM BYPASSES



TRAPROCK QUARRY

HIGH RISK SITES



DIFFERING WATERSHEDS





ACTIVE CONSTRUCTION SITES







CITY OIL
OFF ROAD
DIESEL
1-800-457-1000

1993

CITY OIL
OFF ROAD
DIESEL
1-800-457-1000

1993

WESTERN



SUBDIVISION DEVELOPMENT





TRAP ROCK QUARRY DEWATERING



UTILITY LINE ROW



ROADSIDE MAINTENANCE – HERBICIDE SPRAYING



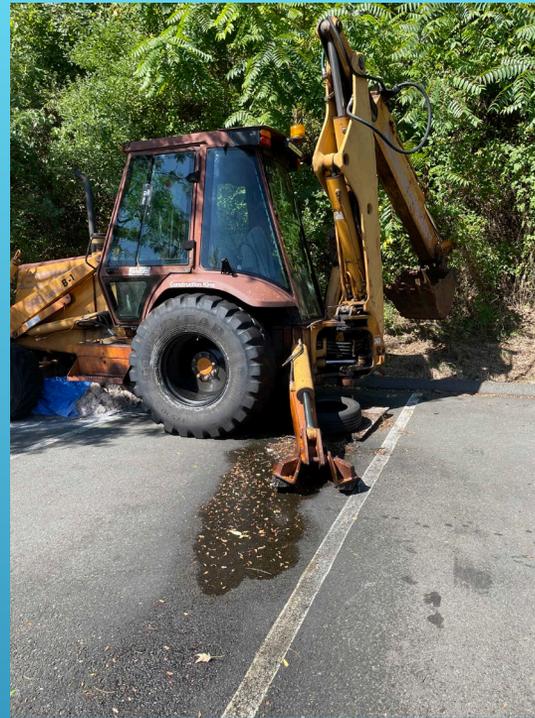
ALGAE AND AQUATIC VEGETATION



ILLICIT DUMPING



SPILLS



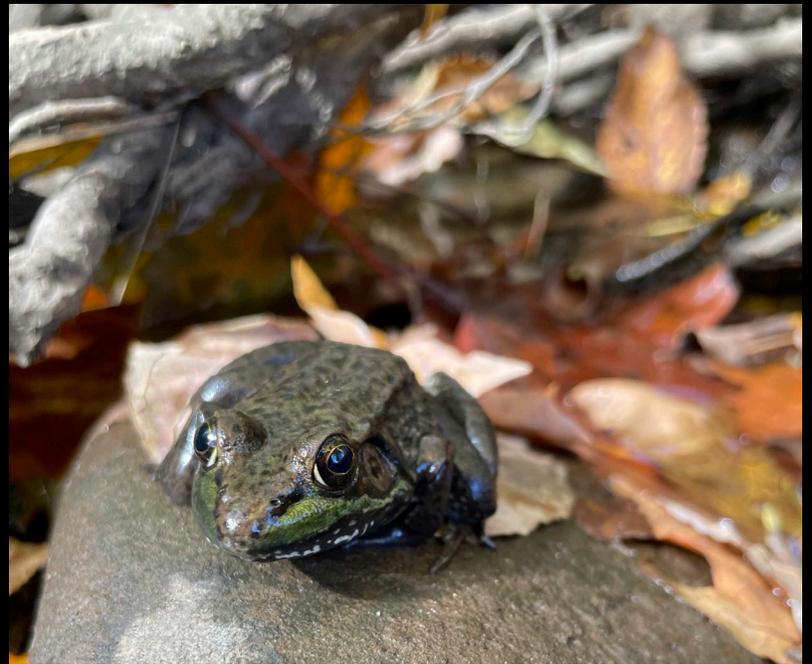


UNAUTHORIZED
ACCESS





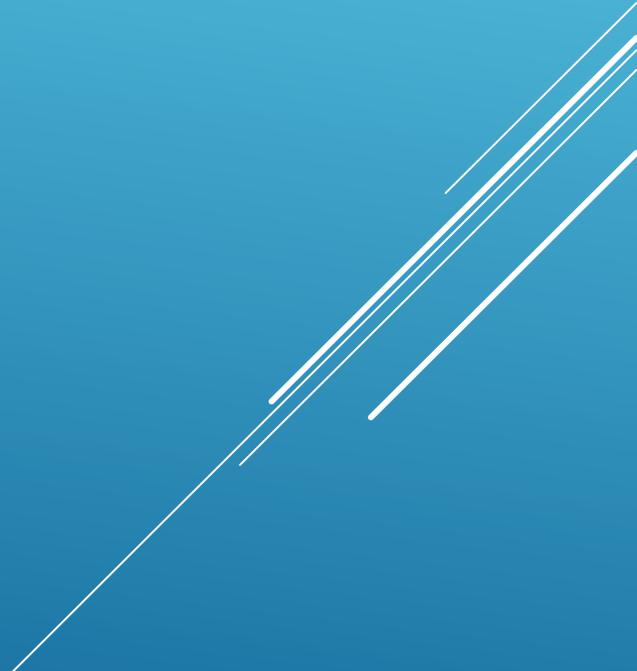
VEHICLES
ENTERING
LAKE WHITNEY



QUESTIONS?

Thank you!

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