

Appendix D3 – Management Programs (Illicit Discharge and Elimination)

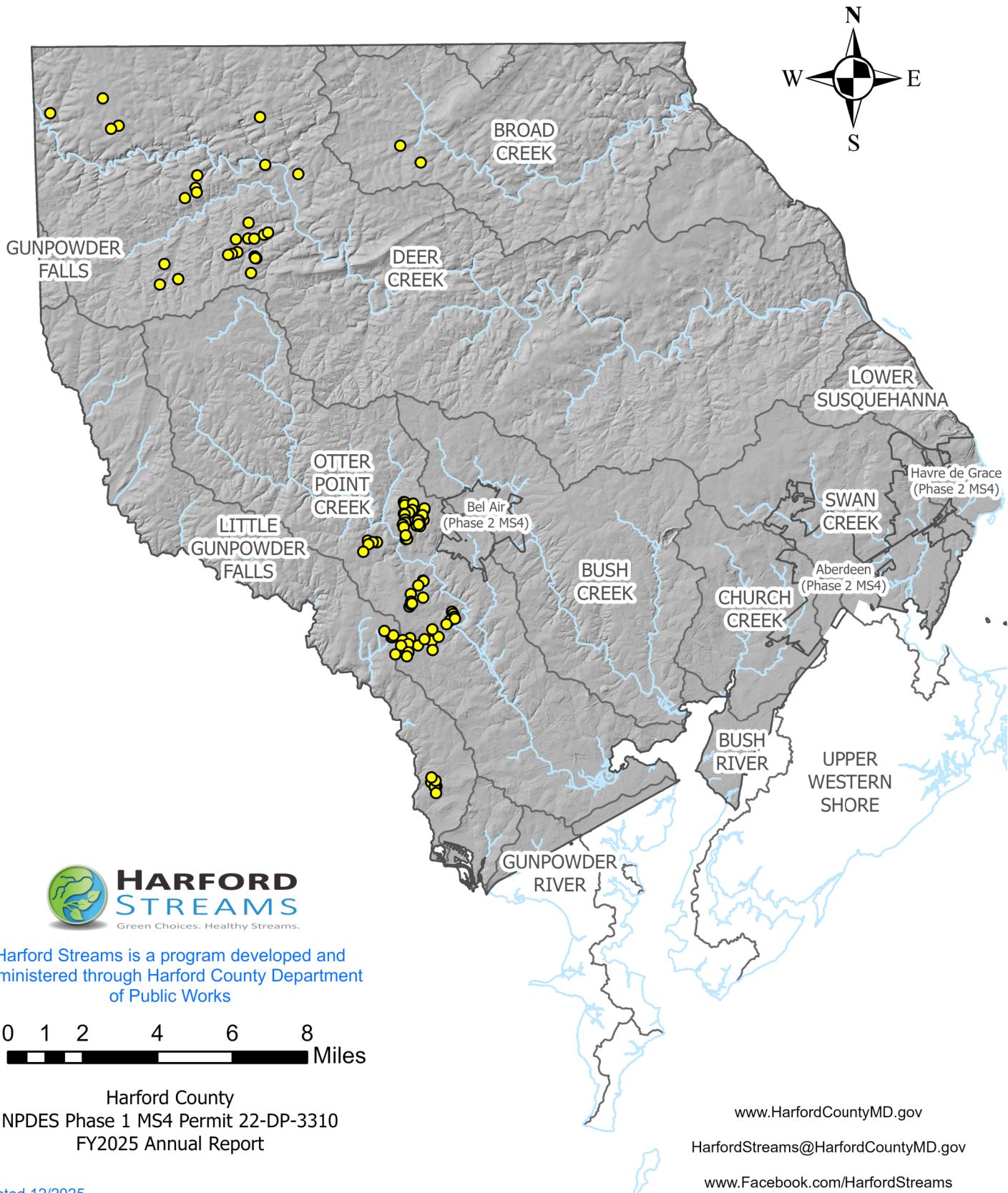
Appendix D3

Harford County, MD Department of Public Works Watershed Protection and Restoration

Inspected Stormdrain Outfalls
(July 1, 2024 - June 30, 2025)



Robert Cassilly
County Executive



Harford County Department of Public Works

Outfall Inspections between July 1, 2024 and June 30, 2025

Robert Cassilly
County Executive

DATE	OUTFALL	TEST #	OBSERVED FLOW	CFS	WATER TEMP F	pH	PHENOLS	CHLORINE	DETERGENTS	COPPER
2025-02-24	OF002910	1	N							
2025-02-24	OF000736	1	N							
2025-02-24	OF002897	1	N							
2025-02-24	OF000713	1	N							
2025-02-24	OF000487	1	N							
2025-02-24	OF000706	1	N							
2025-02-24	OF002606	1	N							
2025-02-25	OF000738	1	N							
2025-02-25	OF000737	1	N							
2025-02-25	OF000735	1	N							
2025-02-25	OF002855	1	N							
2025-02-25	OF000760	1	N							
2025-02-26	OF000765	1	N							
2025-02-26	OF000774	1	N							
2025-02-26	OF000727	1	N							
2025-02-26	OF000788	1	N							
2025-02-26	OF000786	1	N							
2025-02-26	OF000732	1	N							
2025-02-26	OF000731	1	N							
2025-02-26	OF000730	1	N							
2025-02-26	OF000729	1	N							
2025-02-26	OF000728	1	N							
2025-02-26	OF000787	1	N							
2025-02-26	OF000789	1	N							
2025-02-26	OF000792	1	N							
2025-02-26	OF000791	1	N							
2025-02-26	OF000796	1	N							
2025-03-03	OF000410	1	N							
2025-03-03	OF003030	1	N							
2025-03-10	OF001207	1	N							
2025-03-10	OF000650	1	N							
2025-03-10	OF000309	1	Y	0.006	52	8.15	0	1	0.05	0
2025-03-10	OF001535	1	Y	0.009	55	8.05	0	0.5	0.1	0
2025-03-10	OF001491	1	Y	0.001	54	7.68	0	0.05	0.3	0
2025-03-10	OF001492	1	N							
2025-03-11	OF000309	2	Y	0.006	53	7.94	0	1	0.05	0
2025-03-11	OF001479	1	N							

DATE	OUTFALL	TEST #	OBSERVED FLOW	CFS	WATER TEMP F	pH	PHENOLS	CHLORINE	DETERGENTS	COPPER
2025-03-11	OF000072	1	N							
2025-03-11	OF000073	1	Y	0.0003	52	7.78	0	0	0.2	0
2025-03-11	OF001535	2	Y	0.009	56	8.15	0	0.8	0.15	0
2025-03-11	OF001491	2	Y	0.001	56	7.84	0	0.05	0.25	0
2025-03-11	OF001494	1	N							
2025-03-11	OF001487	1	N							
2025-03-12	OF000070	1	N							
2025-03-12	OF001483	1	N							
2025-03-12	OF000073	2	Y	0.0002	51	7.79	0	0	0.2	0
2025-03-12	OF003266	1	N							
2025-03-12	OF003265	1	N							
2025-03-13	OF001537	1	N							
2025-03-13	OF001488	1	N							
2025-03-13	OF000071	1	Y	0.009	49	6.53	0	0	0.1	0
2025-03-13	OF001536	1	N							
2025-03-13	OF001539	1	N							
2025-03-13	OF001538	1	N							
2025-03-13	OF000075	1	N							
2025-03-13	OF001485	1	Y	0.001	52	6.73	0	0.05	0.1	0
2025-03-13	OF001486	1	N							
2025-03-13	OF000071	2	Y	0.009	54	6.74	0	0	0.1	0
2025-03-13	OF001485	2	Y	0.001	54	6.47	0	0	0.1	0
2025-04-18	OF001852	1	N							
2025-04-18	OF001853	1	N							
2025-04-18	OF001926	1	N							
2025-04-18	OF001927	1	N							
2025-04-18	OF001928	1	N							
2025-04-18	OF001950	1	N							
2025-04-18	OF001951	1	N							
2025-04-18	OF001820	1	N							
2025-04-18	OF001819	1	N							
2025-04-18	OF002896	1	N							
2025-04-18	OF001815	1	N							
2025-04-21	OF001816	1	Y	0.004	56	7.09	0	0	0.2	0
2025-04-21	OF002560	1	N							
2025-04-21	OF001818	1	Y	0.01	57	6.95	0	0	0.15	0
2025-04-21	OF002608	1	N							
2025-04-21	OF002607	1	N							
2025-04-21	OF002609	1	N							
2025-04-21	OF002610	1	N							

DATE	OUTFALL	TEST #	OBSERVED FLOW	CFS	WATER TEMP F	pH	PHENOLS	CHLORINE	DETERGENTS	COPPER
2025-04-21	OF002562	1	N							
2025-04-21	OF001816	2	Y	0.004	58	6.82	0	0	0.15	0
2025-04-21	OF001818	2	Y	0.01	60	6.88	0	0	0.2	0
2025-04-22	OF002561	1	N							
2025-04-22	OF002711	1	N							
2025-04-22	OF001832	1	N							
2025-04-22	OF001827	1	N							
2025-04-22	OF001831	1	Y	0.001	60	7.34	0	0	0.05	0
2025-04-22	OF001830	1	Y	0.001	61	7.16	0	0	0.1	0
2025-04-22	OF001812	1	Y	0.001	66	8.36	0	0	0.15	0
2025-04-22	OF000117	1	Y	0.002	64	7.85	0	0.05	0.15	0
2025-04-23	OF001830	2	Y	0.001	61	7.26	0	0	0.15	0
2025-04-23	OF001831	2	Y	0.001	59	7.37	0	0	0.15	0
2025-04-23	OF000115	1	N							
2025-04-23	OF000117	2	Y	0.002	62	7.23	0	0	0.15	0
2025-04-23	OF001812	2	Y	0.001	64	8.04	0	0	0.2	0
2025-04-23	OF001811	1	N							
2025-04-24	OF002983	1	Y	0.001	64	7.37	0	0	0.1	0
2025-04-24	OF002966	1	N							
2025-04-24	OF002985	1	N							
2025-04-24	OF001809	1	Y	0.001	65	7.16	0	0	0.2	0
2025-04-24	OF000116	1	Y	0.001	66	7.39	0	0	0.2	0
2025-04-24	OF001841	1	N							
2025-04-24	OF001823	1	N							
2025-04-25	OF002983	2	Y	0.001	62	7.51	0	0	0.1	0
2025-04-25	OF000116	2	Y	0.001	60	7.39	0	0	0.1	0
2025-04-25	OF001809	2	Y	0.001	60	7.26	0	0	0.2	0
2025-05-20	OF001512	1	N							
2025-05-20	OF000080	1	N							
2025-05-20	OF001513	1	N							
2025-05-20	OF001510	1	N							
2025-05-20	OF001511	1	N							
2025-05-20	OF001516	1	N							
2025-05-20	OF001517	1	N							
2025-05-20	OF001515	1	N							
2025-06-04	OF003469	1	N							
2025-06-04	OF003470	1	N							
2025-06-04	OF000372	1	N							
2025-06-04	OF000389	1	Y	0.006	72	7.02	0	0	0.1	0
2025-06-04	OF001794	1	N							

DATE	OUTFALL	TEST #	OBSERVED FLOW	CFS	WATER TEMP F	pH	PHENOLS	CHLORINE	DETERGENTS	COPPER
2025-06-04	OF001793	1	N							
2025-06-04	OF001795	1	Y	0.005	67	7.11	0	0	0.15	0
2025-06-04	OF001850	1	N							
2025-06-04	OF001804	1	N							
2025-06-05	OF000389	2	Y	0.006	70	7.18	0	0	0.15	0
2025-06-05	OF001795	2	Y	0.005	66	7.11	0	0	0.1	0
2025-06-06	OF002713	1	N							
2025-06-06	OF003038	1	N							
2025-06-06	OF003037	1	N							
2025-06-06	OF002715	1	N							
2025-06-06	OF002318	1	N							
2025-06-06	OF002860	1	N							

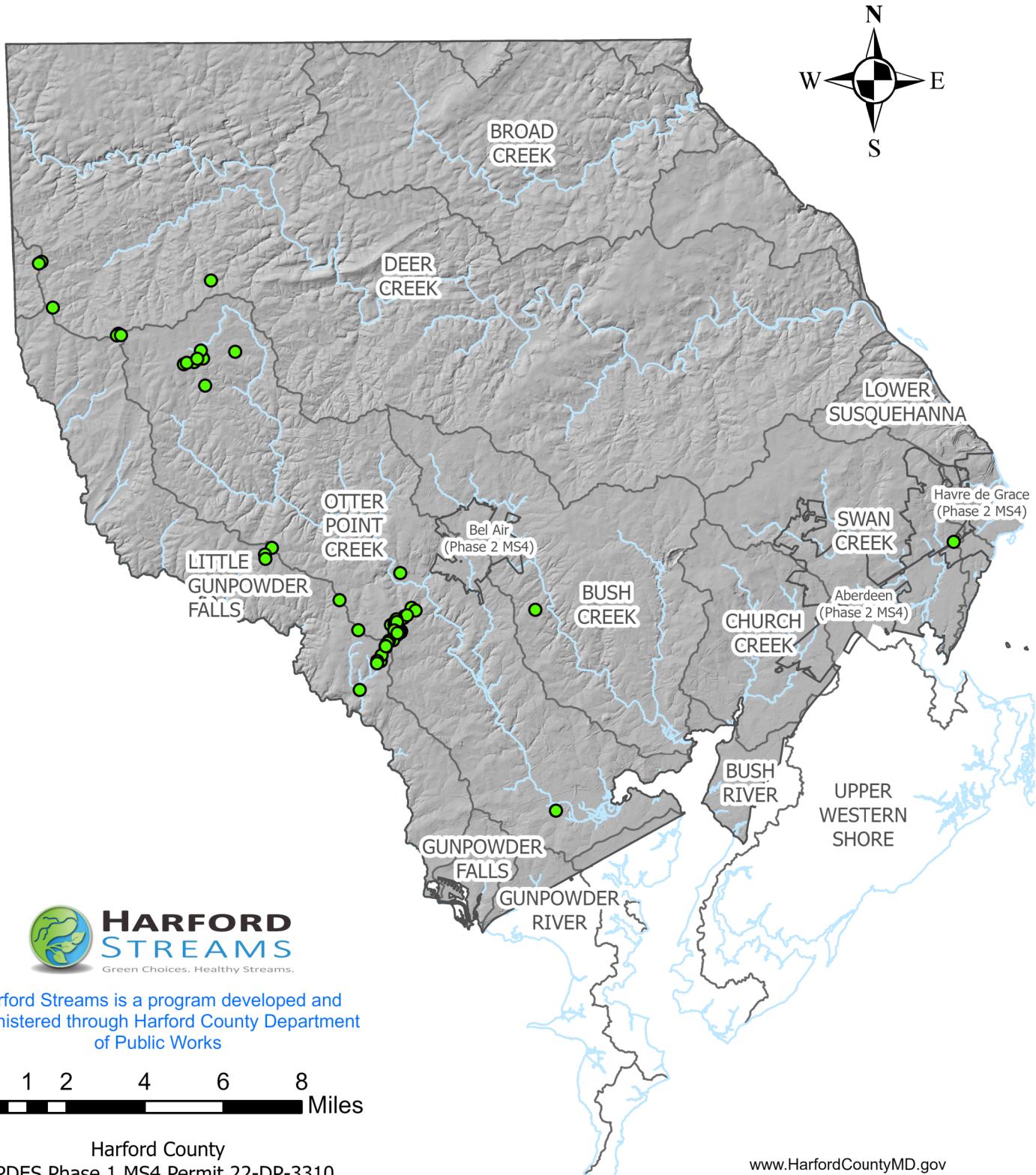
Appendix D3

Harford County, MD Department of Public Works Watershed Protection and Restoration

Active Hotspot Investigations
(July 1, 2024 - June 30, 2025)



Robert Cassilly
County Executive



Harford Streams is a program developed and administered through Harford County Department of Public Works

0 1 2 4 6 8 Miles

Harford County
NPDES Phase 1 MS4 Permit 22-DP-3310
FY2025 Annual Report

Printed 12/2025

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Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

HotspotID	00116	Chesapeake Car Wash
TaxID	01038761	2104 Pulaski Hwy

CaseID	202300116	Opened 4/14/2023	Closed 3/19/2025
CaseNotes	03/19/25 BUSINESS IS CLOSED; No responses from business on multiple attempts to contact; Pooled water in inlet grate; Potential IDDE into property (Roberts Oxygen);		

Activity Date	Activity	Outcome
3/19/2025	Internal Review	Case closed
3/19/2025	Internal Review	Business is CLOSED; Business entity search conducted a
1/31/2024	Letter to property owner	Remediation requested; Follow-up to 11/28/23 letter
11/29/2023	Letter to property owner	Remediation requested
11/16/2023	Site visit	Confirmed hotspot
11/8/2023	Internal Review	Follow up needed
10/16/2023	Internal Review	Follow up needed; County review of inspection report
4/14/2023	Random screening	Not a hotspot

HotspotID	00543	Budget Auto Sales
TaxID	06008445	1633 Pulaski Hwy

CaseID	202500543	Opened 10/28/2024	Closed 11/29/2024
CaseNotes	Citizen Complaint about outdoor washing and run-off entering storm drain		

Activity Date	Activity	Outcome
11/29/2024	Email from property owner	Case closed
11/29/2024	Email from property owner	Remediation completed
11/21/2024	Call from property owner	Remediation planned
11/4/2024	Letter to property owner	Remediation requested
10/28/2024	Citizen complaint	Confirmed hotspot

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

HotspotID	00379	High's
TaxID	04396805	4101 Norrisville Rd
CaseID	202500379	Opened 1/2/2025 Closed 1/22/2025
CaseNotes	Gas Station and Convenience Store	
Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/2/2025	Random screening	Not a hotspot
HotspotID	00593	Jones Pump Service
TaxID	04056531	3632 Anderson Lane
CaseID	202500593	Opened 1/2/2025 Closed 1/22/2025
CaseNotes	Septic Removal/Installation Services; All septic tanks property are new and being stored; Other Inert materials on site	
Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/2/2025	Random screening	Not a hotspot
HotspotID	00594	Madonna Auto
TaxID	04061950	4106 Norrisville Road
CaseID	202500594	Opened 1/2/2025 Closed 1/22/2025
CaseNotes	Auto Repair Shop; Some vehicles on site to be repaired; Small fueling tank contained in concreted area but appears inactive; Residential house also on property but not assessed for HIS	
Activity Date	Activity	Outcome
1/22/2025		Case closed
1/2/2025	Random screening	Not a hotspot

Harford County Department of Public Works
 Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
 County Executive

HotspotID	00595	The Mill of Blackhorse				
TaxID	04063473	4551 Norrisville Road				
CaseID	202500595	Opened	1/2/2025	Closed 1/30/2025		
CaseNotes	Associated with Tax ID: 04075099 stores materials on property; Livestock feed and supply company; Site contains mulch, fencing; Lots of empty IBC containers; BMP dry pond on site;					
Activity Date	Activity		Outcome			
1/30/2025	Internal Review		Provided education materials for storage of materials f			
1/22/2025	Internal Review		Follow up needed regarding 04075099 storage of mate			
1/2/2025	Random screening		Not a hotspot; 04063473 business equipment/material			
HotspotID	00596	Southern States				
TaxID	04075099	4545 Norrisville Road				
CaseID	202500596	Opened	1/2/2025	Closed 1/30/2025		
CaseNotes	Commercial / Residential Fuel Sales and Delivery; Storage of unknown liquids on TAX ID: 04063473					
Activity Date	Activity		Outcome			
1/30/2025	Internal Review		Provided education materials; See also 04063473 (202			
1/22/2025	Internal Review		Not a hotspot from pictures but there is a lot going on;			
1/2/2025	Random screening		Not a hotspot			
HotspotID	00597	SRG Pools				
TaxID	04087526	4059 and 4059-A Norrisville Road				
CaseID	202500597	Opened	1/2/2025	Closed 1/22/2025		
CaseNotes	Associated with TAX ID: 04060946; Pool and Spa Sales and Construction Offices Building; Covered storage of Oxidizers and Corrosive Materials based upon HAZMAT sign on Bldg; Some inert pallets and pipes stored outside;					
Activity Date	Activity		Outcome			
1/22/2025	Case closed					
1/2/2025	Random screening		Not a hotspot			

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

HotspotID	00598	Black Horse Golf Academy / Gateway Community of Faith Church
TaxID	04058100	3051 Troyer Road

CaseID	202500598	Opened 1/2/2025	Closed 1/22/2025
CaseNotes	Golf Driving Range; Community Church shares property; No issues observed		

Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/2/2025	Random screening	Not a hotspot
HotspotID	00223	Carroll Fuels
TaxID	04035208	1755 W. Jarrettsville Road

CaseID	202500223	Opened 1/3/2025	Closed 1/25/2025
CaseNotes	Gas Station; Auto Repair; and Uhaul Rental; Was previously BP Gas Station in 2015; Car Wash on-site which appears to be non functional and used for storage; Customer Cars onsite;		

Activity Date	Activity	Outcome
1/25/2025	Internal Review	Case closed
1/3/2025	Random screening	Not a hotspot
HotspotID	00332	Jarrettsville Truss, Mid-Atlantic Welding, et al
TaxID	04064488	3805 Norrisville Rd

CaseID	202500332	Opened 1/3/2025	Closed 1/29/2025
CaseNotes	Wooden Structure Fabrication; Medical Offices		

Activity Date	Activity	Outcome
1/29/2025	Internal Review	Not a hotspot
1/22/2025	Internal Review	Internal Discussion and Review
1/3/2025	Random screening	Not a hotspot

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

HotspotID	00354	Highs		
TaxID	04041941	3711 Federal Hill Rd		
CaseID	202500354	Opened	1/3/2025	Closed
CaseNotes	Gas station and High's Convenience Store; Some customer vehicles onsite; Minor staining on asphalt that appears old; Overall good housekeeping at site			
Activity Date	Activity	Outcome		
1/22/2025	Internal Review	Case closed		
1/3/2025	Random screening	Not a hotspot		
HotspotID	00378	Don's Automotive		
TaxID	04056442	4049 Federal Hill Rd		
CaseID	202500378	Opened	1/3/2025	Closed
CaseNotes	Auto Repair Shop; Cars being repaired; Cars Stored; Manager indicated that oil tank storing Liquid materials was upgraded to double walled tank since 2019 inspection;			
Activity Date	Activity	Outcome		
1/22/2025	Internal Review	Case closed		
1/3/2025	Random screening	Not a hotspot		
HotspotID	00588	Calarys Auto Repair		
TaxID	04009835	1246 Baldwin Mill Road		
CaseID	202500588	Opened	1/3/2025	Closed
CaseNotes	Small Auto Repair Shop; Most of parcel is farm field; Residential Area not assessed; Some cars on site to be repaired			
Activity Date	Activity	Outcome		
1/22/2025	Internal Review	Case closed		
1/3/2025	Random screening	Not a hotspot		

Harford County Department of Public Works
 Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
 County Executive

HotspotID	00589	Dunkin Donuts
TaxID	04020782	3712 Norrisville Road

CaseID	202500589	Opened 1/3/2025	Closed 1/22/2025
CaseNotes	Dunkin' Donuts; Fast Food Restaurant; Good housekeeping; No issues with site		

Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/3/2025	Random screening	Not a hotspot
HotspotID	00592	Jacks Small Engine / Jarrettsville Creamery & Deli / C&C Holdings LL
TaxID	04045203	1745-1747 Jarrettsville Road

CaseID	202500592	Opened 1/3/2025	Closed 1/22/2025
CaseNotes	Associated with 04060024; Small machine sales and rental; Creamer and Deli; Equipment sales; Dry BMP pond on-site		

Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/3/2025	Random screening	Not a hotspot
HotspotID	00224	Smith Hardware / Ma-Jar Motors
TaxID	04062620	3803 Norrisville Rd

CaseID	202500224	Opened 1/10/2025	Closed 1/29/2025
CaseNotes	Previously Ace Hardware / Jarrettsville Body & Fender / Majar in 2019; Although not a hotspot during inspection, some housekeeping practices for spills should be addressed; Education materials will be sent to business		

Activity Date	Activity	Outcome
1/29/2025	Internal Review	Provided education materials
1/22/2025	Internal Review	Potential hotspot
1/22/2025	Internal Review	Not a hotspot but educational materials should be sent
1/10/2025	Random screening	Not a hotspot

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

HotspotID	00587	Frank Thomas Sawmill
TaxID	03041948	2019 Fallston Road
CaseID	202500587	Opened 1/10/2025 Closed 1/22/2025
CaseNotes	Sawmill; Wet Pond on site; Most of property is cropland with fair housekeeping practices; Sawmill processes raw wood into lumber	
Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/10/2025	Random screening	Not a hotspot
HotspotID	00590	7-11 Convenience Store
TaxID	04041976	2400 Pleasantville Road
CaseID	202500590	Opened 1/10/2025 Closed 1/22/2025
CaseNotes	Convenience store and Gas Station; No issues with site; Good Housekeeping practices	
Activity Date	Activity	Outcome
1/22/2025		Case closed
1/10/2025	Random screening	Not a hotspot
HotspotID	00591	HMS Paving; Washday Floral; Schoolhouse
TaxID	04044886	2414 Pleasantville Road
CaseID	202500591	Opened 1/10/2025 Closed 1/22/2025
CaseNotes	Paving Company; Flower shop; Gift Shop; Trailers / Paving machines on site; No issues observed at site	
Activity Date	Activity	Outcome
1/22/2025	Internal Review	Case closed
1/10/2025	Random screening	Not a hotspot

Harford County Department of Public Works
 Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
 County Executive

HotspotID	00599	ALM, Inc; Moran Auto Repair; Belle Patri, Benjamin Franklin Plumbi
TaxID	04026144	3725 Federal Hill Road

CaseID	202500599	Opened 1/10/2025	Closed 1/29/2025
CaseNotes	Dumpsters near Inlet; Vehicles Stored near Stream; Outdoor Fueling Areas uncovered; DEF Tank; Uncovered outdoor storage areas; Waste Management; Dumpsters near storm drain		

Activity Date	Activity	Outcome
1/29/2025	Internal Review	Provided education materials
1/10/2025	Random screening	Potential hotspot
<hr/>		
HotspotID	00600	Keene Dodge; Keen Commercial
TaxID	04026047	3707-3713 Norrisville Rd; 1100-1108 Baldwin Mill Road
CaseID	202500600	Opened 1/10/2025 Closed 3/12/2025
CaseNotes	Associated with TAX IDs: 04022386_04028643_04028635_04028678_04035321_04064801; Multiple Parcels Related to Keene Dodge; Large number of vehicles stored on site; Most items outsides are covered with secondary containment of liquids	

Activity Date	Activity	Outcome
3/12/2025	Internal Review	Provided education materials
2/13/2025	Site visit	Not a hotspot
2/4/2025	Email from consultant	Inspection Scheduled with Business
1/31/2025	Letter to property owner	Follow up needed
1/29/2025	Internal Review	
1/10/2025	Random screening	Soft Denial

HotspotID	00601	Superior Motor
TaxID	03028364	1320 Bel Air Road

CaseID	202500601	Opened 1/15/2025	Closed 2/5/2025
CaseNotes	Used Auto Sales; Good housekeeping; Cars for Sale; Appears to be a show room only		

Activity Date	Activity	Outcome
2/5/2025		Case closed

Harford County Department of Public Works
 Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
 County Executive

1/15/2025	Random screening	Not a hotspot
HotspotID	00603	Bob Bell Chevrolet
TaxID	03034356	1230-1300 Bel Air Road
CaseID	202500603	Opened 1/15/2025 Closed 2/5/2025
CaseNotes	Associated with TAX ID: 03036871; Car Dealership and Repair shop; Overall housekeeping is fair/good. No evidence of bad housekeeping; Double walled storage tanks and secondary containment of waste oil.	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/15/2025	Random screening	Not a hotspot
HotspotID	00611	Winters Run Golf Club
TaxID	03069265	1000 N Tollgate Road
CaseID	202500611	Opened 1/15/2025 Closed 2/12/2025
CaseNotes	Associated with TAX ID: 03069273; Golf Course; Irrigation system being installed and materials are staged at site	
Activity Date	Activity	Outcome
2/12/2025	Internal Review; Maps provided and reviewe	Case closed
2/5/2025	Internal Review	Follow up needed; Map is incorrect; Contractor provid
1/15/2025	Random screening	Not a hotspot
HotspotID	00613	Fallston Service Center
TaxID	03097218	602 Fallston Road
CaseID	202500613	Opened 1/15/2025 Closed 2/5/2025
CaseNotes	Auto Repair; U-haul Rental; Fuel Pumps removed from site; Minor debris around site; No sign of exposed pollutants	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/15/2025	Random screening	Not a hotspot

Harford County Department of Public Works
 Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
 County Executive

HotspotID	00615	The Chimney Doctor
TaxID	03192679	1021 Old Fallston Road
CaseID	202500615	Opened 1/15/2025 Closed 2/5/2025
CaseNotes	Fireplace and Stove Sales and Installation; Bricks and inert building materials on site; Greenhouse and Garden area on site used by owner	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/15/2025	Random screening	Not a hotspot
HotspotID	00219	Jones Junction
TaxID	03047369	1510 Bel Air Road
CaseID	202500219	Opened 1/17/2025 Closed 2/12/2025
CaseNotes	Auto Sales and Repairs; Oil and liquid storage; Outdoor storage; Liquids stored without secondary containment	
Activity Date	Activity	Outcome
2/12/2025	Internal Review	Provided education materials
2/5/2025	Internal Review	Follow up needed
2/5/2025	Internal Review	Potential hotspot
1/17/2025	Random screening	Not a hotspot
HotspotID	00586	Chris' Towing and Transport LLC
TaxID	03056295	1807 Connolly Road
CaseID	202500586	Opened 1/17/2025 Closed 2/19/2025
CaseNotes	Associated with TAX ID: 03348210; Initial access denied on 01/17/25; Towing services; Car parts; Scrap Metal; Vehicle Storage	
Activity Date	Activity	Outcome
2/19/2025	Internal Review	Provided education materials
2/5/2025	Site visit	Not a hotspot
1/29/2025	Call to property owner	Site Visit Scheduled; Consultant provided with Owner i

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

1/28/2025	Call from property owner	Follow up needed; Steve Wagner 443-243-4340
1/23/2025	Letter to property owner	Follow up needed
1/17/2025	Email from consultant	Follow up needed
1/17/2025	Random screening	Access Denied

HotspotID	00602	Jones Subaru Rental Lot
TaxID	03028755	1329 Bel Air Road

CaseID	202500602	Opened 1/17/2025	Closed 2/5/2025
CaseNotes	Associated with TAX ID: 03051188; Car Rental; Car storage; Good Housekeeping; No dumpster present;		

Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/17/2025	Random screening	Not a hotspot
HotspotID		00606 Bell Gate Centre
TaxID		03042219 1215 Bel Air Road

CaseID	202500606	Opened 1/17/2025	Closed 2/5/2025
CaseNotes	Multiple Businesses; Restaurant/Food Services; Offices; Some external storage of kegs and containers but no obvious pollution sources on property		

Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/17/2025	Random screening	Not a hotspot
HotspotID		00609 Jones Bel Air Subaru Auto Sales and Service
TaxID		03044920 1317 Bel Air Road

CaseID	202500609	Opened 1/17/2025	Closed 2/5/2025
CaseNotes	Associated with TAX ID: 03044912; Auto sales and Service; Double walled oil tanks under cover with secondary containment; site appears well kept and managed		

Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

Activity Date	Activity	Outcome
1/17/2025	Random screening	Not a hotspot
HotspotID	00610	Fallston Bldg and ALP Roofing
TaxID	03057976	1716 Harford Road
CaseID	202500610	Opened 1/17/2025 Closed 2/5/2025
CaseNotes	Associated with TAX ID: 03266494; Empty fueling tank present on site but it is empty and no longer used; Storage of some materials on site; Empty IBC totes on property as well	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/17/2025	Random screening	Not a hotspot
HotspotID	00612	Genesis of Bel Air
TaxID	03069702	1710 Harford Road
CaseID	202500612	Opened 1/17/2025 Closed 2/5/2025
CaseNotes	Car sales and Service; New construction now shown on map	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/17/2025	Random screening	Not a hotspot
HotspotID	00222	Bel Air Auto Service - BP Fallston
TaxID	03064581	1515 Bel Air Rd
CaseID	202500222	Opened 1/23/2025 Closed 2/12/2025
CaseNotes	Gas station and Auto Repairs; Storage of sealed containers outside with oil and no secondary containment; Waste Oil collection; Educational materials should be sent	
Activity Date	Activity	Outcome
2/12/2025	Internal Review	Provided education materials
2/5/2025	Internal Review	Potential hotspot
1/23/2025	Random screening	Not a hotspot

Harford County Department of Public Works
Hotspot Cases Active between July 1, 2024 and June 30, 2025



Robert Cassilly
County Executive

HotspotID	00604	Los Primos Carwash
TaxID	03036731	1601 Bel Air road
CaseID	202500604	Opened 1/23/2025 Closed 2/5/2025
CaseNotes	Hand Washing and Car Detailing; Small operation with minor run-off going to pervious surfaces; Activity appears to be conducted inside of business	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/23/2025	Random screening	Not a hotspot
HotspotID	00605	84 Lumber
TaxID	03038998	1704 Harford Road
CaseID	202500605	Opened 1/23/2025 Closed 2/5/2025
CaseNotes	Lumber Sales and Supplies; All treated lumber is under cover; some inert building materials stored outside but little risk for any stormwater pollution	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/23/2025	Random screening	Not a hotspot
HotspotID	00607	Caliber Collision
TaxID	03042936	120 Connolly Rd
CaseID	202500607	Opened 1/23/2025 Closed 2/5/2025
CaseNotes	Auto Body Repair Shop; Minor storage of materials outside but under cover; Some external car parts outside but stormwater run-off of those materials have little to no chance of pollutant contamination	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/23/2025	Random screening	Not a hotspot

Harford County Department of Public Works
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Robert Cassilly
County Executive

HotspotID	00608	410 TINT PRO
TaxID	03044149	1708 Harford Road
CaseID	202500608	Opened 1/23/2025 Closed 2/5/2025
CaseNotes	Window Tinting; Auto Repair and Detailing; Vehicles stored on lot appear to be in good shape with no leaks or sources of pollution; Tires for recycling stored on site	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/23/2025	Random screening	Not a hotspot
HotspotID	00614	Stock and Store; Xammer Home Improv; Smoke and Glass; Storage
TaxID	03179532	1621 Bel Air Road
CaseID	202500614	Opened 1/23/2025 Closed 2/5/2025
CaseNotes	Multiple Small Businesses; Self Storage Facility; U-haul Rental; All stormwater runs off to a Wet Pond; No debris or potential pollutants observed in site pictures	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/23/2025	Random screening	Not a hotspot
HotspotID	00616	Seafood Stop
TaxID	03304485	1607 Bel Air Road
CaseID	202500616	Opened 1/23/2025 Closed 2/5/2025
CaseNotes	Seafood Market and Carry-out	
Activity Date	Activity	Outcome
2/5/2025	Internal Review	Case closed
1/23/2025	Random screening	Not a hotspot

Harford County Department of Public Works
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Robert Cassilly
County Executive

HotspotID	00617	Heritage Honda / Mazda
TaxID	03105385	1800 Bel Air Road
CaseID	202500617	Opened 2/5/2025 Closed 2/19/2025
CaseNotes	Automobile Sales and Service; Outdoor storage of materials; Waste Management; Oil Staining	
Activity Date	Activity	Outcome
2/19/2025	Internal Review	Provided education materials
2/5/2025	Random screening	Potential hotspot
HotspotID	00618	Bippers Automotive; J&J Auto
TaxID	03089010	1800 West Grove Ave
CaseID	202500618	Opened 2/5/2025 Closed 2/19/2025
CaseNotes	Automotive Repair; Waste Oil and Car Parts; Outdoor storage of materials; Poor housekeeping and evidence of oil staining	
Activity Date	Activity	Outcome
2/19/2025	Internal Review	Provided education materials
2/5/2025	Random screening	Potential hotspot
HotspotID	00619	Multiple Businesses: Tabitha's, Mark Trace, Postal Office, Perfection
TaxID	03041298	112 Connolly Road
CaseID	202500619	Opened 2/5/2025 Closed 2/19/2025
CaseNotes	Evidence of old staining; Fair Housekeeping; Outdoor storage of empty IBC totes and barrels; Minor accumulation of large plastic debris near dumpsters	
Activity Date	Activity	Outcome
2/19/2025	Internal Review	Case closed
2/5/2025	Random screening	Not a hotspot

Harford County Department of Public Works
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Robert Cassilly
County Executive

HotspotID	00620	Enterprise Car Rental
TaxID	03048101	1612 Bel Air Road

CaseID	202500620	Opened 2/5/2025	Closed 2/19/2025
CaseNotes	Vehicle Rental location; Approximately 60 cars on site; Old U-haul truck with evidence of illegal dumping/storage		

Activity Date	Activity	Outcome
3/26/2025	Email to property owner	Case closed
3/21/2025	Letter from property owner	Remediation completed
2/28/2025	Letter from property owner	Letter from Souzalaw indicating that they will notify bu
2/19/2025	Internal Review	Provided education materials
2/5/2025	Random screening	Not a hotspot

HotspotID	00621	Mirror Image Detailing / Budget / AVIS Car Rental
TaxID	03122360	1910-1912 Bel Air Road

CaseID	202500621	Opened 2/5/2025	Closed 2/19/2025
CaseNotes	Associated with TAX ID: 03127869; Car Detailing and Truck Rental; Evidence of Power washing; Storage of push mowers; Car Wash solvent stored outside		

Activity Date	Activity	Outcome
2/19/2025	Internal Review	Provided education materials
2/5/2025	Random screening	Not a hotspot

HotspotID	00627	All-Pro Auto Body / Xtreme Clean Detailing
TaxID	03397982	1908 Bel Air Road

CaseID	202500627	Opened 2/13/2025	Closed 3/12/2025
CaseNotes	No Dumpster on Property; Possibly shared with other business; Old engines and car parts stored around property		

Activity Date	Activity	Outcome
3/12/2025	Internal Review	Provided education materials
2/13/2025	Random screening	Not a hotspot

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Robert Cassilly
County Executive

HotspotID	00628	The Local
TaxID	03398723	1918 Bel Air Road
CaseID	202500628	Opened 2/13/2025 Closed 3/12/2025
CaseNotes	Restaurant; BMP; Curb cutouts and rain gardens, stormwater management structures surround the business	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Case closed
2/13/2025	Random screening	Not a hotspot
HotspotID	00629	Dunkin Donuts
TaxID	00398724	1920 Bel Air Road
CaseID	202500629	Opened 2/13/2025 Closed 3/12/2025
CaseNotes	Dunkin Donuts; Curb cut outs and Stormwater Mgmt practices present; No issues observed at this site	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Case closed
2/13/2025	Random screening	Not a hotspot
HotspotID	00375	Fallston Village Shopping Center
TaxID	03061337	2315 Belair Rd
CaseID	202500375	Opened 2/14/2025 Closed
CaseNotes	Possible illicit discharge; Hose flowing directly into inlet; Waste Management; Construction Debris management	
Activity Date	Activity	Outcome
3/19/2025	Letter to property owner	Follow up needed
3/12/2025	Internal Review	Confirmed hotspot
2/14/2025	Random screening	Potential hotspot

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Robert Cassilly
County Executive

HotspotID	00622	Tobacco Hut and Other Businesses
TaxID	030333880	2205 Bel Air Road
CaseID	202500622	Opened 2/14/2025 Closed 3/12/2025
CaseNotes	Storage of waste cooking oil; Minor staining; Dumpsters; No issues observed at business	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Case closed
2/14/2025	Random screening	Not a hotspot
HotspotID	00623	Taco Tolteca
TaxID	03038971	2823 Bel Air Road
CaseID	202500623	Opened 2/14/2025 Closed 3/12/2025
CaseNotes	Restaurant; Food Oil waste container; minor legacy staining; Overall property grounds are clean and well managed	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Case closed
2/14/2025	Random screening	Not a hotspot
HotspotID	00624	Fallston Auto Wash
TaxID	03068293	2320 Bel Air Road
CaseID	202500624	Opened 2/14/2025 Closed 3/12/2025
CaseNotes	Car Wash; Water is contained within wash bays; No major run-off from business; Overall grounds of property are well maintained	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Case closed
2/14/2025	Random screening	Not a hotspot

Harford County Department of Public Works
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Robert Cassilly
 County Executive

HotspotID	00625	Shell Gas Station; Fallston Station
TaxID	03194604	2401 Bel Air Road
CaseID	202500625	Opened 2/14/2025 Closed 3/12/2025
CaseNotes	Two pump gas station; no evidence of staining or spills; Spill Kit present at site; Grounds appear well maintained.	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Case closed
2/14/2025	Random screening	Not a hotspot
HotspotID	00626	Waffle House
TaxID	03362868	1916 Bel Air Road
CaseID	202500626	Opened 2/14/2025 Closed 3/12/2025
CaseNotes	Restaurant; Some staining around food oil waste container; Education Materials sent	
Activity Date	Activity	Outcome
3/12/2025	Internal Review	Provided education materials
2/14/2025	Random screening	Not a hotspot
HotspotID	00604	Los Primos Carwash
TaxID	03036731	1601 Bel Air road
CaseID	202600604	Opened 4/8/2025 Closed
CaseNotes	Citizen Complaint on Car Washing; UPDATE DETAILS OF THIS CITIZEN COMPLAINT AND FOLLOW UP ACTIONS	
Activity Date	Activity	Outcome
10/15/2025	Site visit	Follow up needed; Business owner has taken measures
10/13/2025	Internal Review	Citizen Complaint follow up Email received 10/14/25
10/1/2025	Internal Review	Follow up needed to document complaint and determi
9/22/2025	Letter to property owner	Provided education materials
9/19/2025	MDE Consultation	Follow up needed

Harford County Department of Public Works
 Hotspot Cases Active between July 1, 2024 and June 30, 2025



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9/18/2025	Site visit	Potential hotspot
7/10/2025	Internal Review	Email to complainant
7/10/2025	Site visit	DPW Site inspector visits site with no observations of c
7/8/2025	Internal Review	Internal E-mail from 7/8/25 to 7/10/25
7/8/2025	Internal Review	Email from citizen; Following up on initial complaint
5/7/2025	Internal Review	DPW (Complaint forwarded to D. Butler)
4/8/2025	Internal Review	Complaint forwarded to DPW
4/8/2025	Citizen complaint	Follow up needed;

HotspotID	00630	1702 Woodhome Drive
TaxID	01238051	1702 Woodhome Drive

CaselID	202500630	Opened 6/6/2025	Closed 10/15/2025
CaseNotes	Residential Construction Dumpster Leaking; Draining to Stormwater Sewer		

Activity Date	Activity	Outcome
10/15/2025	Site visit to verify issues have been resolved	Case closed
7/30/2025	Call from property owner	Remediation completed; Photo documentation by A.
6/10/2025	Call from Site Contractor	Complaint by HOA; Additional Remediation planned
6/7/2025	Site visit	Follow up needed; Dumpster Covered with Tarp; Straw
6/6/2025	Internal Review	Follow up needed
6/6/2025	Call to property owner	Remediation requested
6/6/2025	Internal Review	Confirmed hotspot
6/6/2025	Site visit	Site Visit by A. McClelland; Site Photos taken
6/6/2025	Citizen complaint	Follow up needed

Hotspot categories are based on Center for Watershed Protection Urban Stormwater Restoration Manual 11, Chapter 4

Severe hotspot = Immediate enforcement action needed

Confirmed hotspot = High potential for pollution

Potential hotspot = Moderate potential for pollution

Not a hotspot - Low potential for pollution



Green Choices ... Healthy Streams

Harford Streams is a program developed and administered through Harford County Department of Public Works

RE: Potential Water Main Leak

From: Dawson, George <gedawson@harfordcountymd.gov>
Date: Thu 3/13/2025 9:37 AM
To: Hankins, Danielle <dhankins@harfordcountymd.gov>
Cc: Pazdersky, Dan <dspazdersky@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>; Wong, David <dwong@harfordcountymd.gov>

Just as a follow up, we did find a leak and made the necessary repairs to 669 Marcham rd which should stop the described water issue. Thank you for making us aware of the situation.



George E. Dawson | Chief, Water & Sewer Facilities
Department of Public Works
Water & Sewer
3111A Philadelphia Road | Abingdon, MD 21009
410-612-1612 (W) | 410-612-1614 (F)
gedawson@harfordcountymd.gov | www.harfordcountymd.gov    

From: Hankins, Danielle <dhankins@harfordcountymd.gov>
Sent: Monday, March 10, 2025 3:30 PM
To: Dawson, George <gedawson@harfordcountymd.gov>
Cc: Pazdersky, Dan <dspazdersky@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>; Wong, David <dwong@harfordcountymd.gov>
Subject: RE: Potential Water Main Leak

Thank you. I appreciate it.

Danielle Hankins
MS4 Program Administrator

410.638.3217 ext. 1176
443.862.5367 - cell

From: Dawson, George <gedawson@harfordcountymd.gov>
Sent: Monday, March 10, 2025 3:03 PM
To: Hankins, Danielle <dhankins@harfordcountymd.gov>
Cc: Pazdersky, Dan <dspazdersky@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>; Wong, David <dwong@harfordcountymd.gov>
Subject: RE: Potential Water Main Leak

Ok we have a technician investigating the are this evening.



George E. Dawson | Chief, Water & Sewer Facilities
Department of Public Works
Water & Sewer
3111A Philadelphia Road | Abingdon, MD 21009
410-612-1612 (W) | 410-612-1614 (F)
gedawson@harfordcountymd.gov | www.harfordcountymd.gov    

From: Hankins, Danielle <dhankins@harfordcountymd.gov>
Sent: Monday, March 10, 2025 2:23 PM
To: Dawson, George <gedawson@harfordcountymd.gov>
Cc: Pazdersky, Dan <dspazdersky@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>; Wong, David <dwong@harfordcountymd.gov>
Subject: Fw: Potential Water Main Leak

Here is another one. Same area.

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From: Corbin, Ryan [USA - EMP] <RCorbin@versar.com>
Sent: Monday, March 10, 2025 2:16 PM
To: Hankins, Danielle <dhankins@harfordcountymd.gov>
Cc: Brindley, Allison [USA - EMP] <ABrindley@versar.com>; Hood, Brent [USA - EMP] <BHood@versar.com>; Wong, David <dwong@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>
Subject: RE: Potential Water Main Leak

[EXTERNAL SENDER]

I got notice from our crew just a minute ago that they had another Total Chlorine only hit at OF001535, just south of Macroom Court in Bel Air (track down map attached). The initial outfall, OF000309, discharges into a dry pond of sorts, and OF001535 is the outlet from that pond, so within the same system but downstream. If the issue gets resolved for the first outfall reported it will likely get resolved for this one as well. The Total Chlorine concentration at OF001535 was 0.5 mg/L. Let me know if you need more information on this outfall as well.



Ryan Corbin
Project Manager/Environmental Scientist
Applied Professional & Technology Solutions (APTS)
Environmental Management
Direct: 410-740-6071
Mobile: 410-259-2261
rcorbin@versar.com
Versar.com

From: Hankins, Danielle <dhankins@harfordcountymd.gov>

Sent: Monday, March 10, 2025 2:09 PM

To: Corbin, Ryan [USA - EMP] <RCorbin@versar.com>

Cc: Brindley, Allison [USA - EMP] <ABrindley@versar.com>; Hood, Brent [USA - EMP] <BHood@versar.com>; Wong, David <dwong@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>

Subject: RE: Potential Water Main Leak

Thanks folks. I will send this along to w/s.

Danielle Hankins
MS4 Program Administrator

410.638.3217 ext. 1176
443.862.5367 - cell

From: Corbin, Ryan [USA - EMP] <RCorbin@versar.com>

Sent: Monday, March 10, 2025 1:00 PM

To: Hankins, Danielle <dhankins@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>; Wong, David <dwong@harfordcountymd.gov>

Cc: Brindley, Allison [USA - EMP] <ABrindley@versar.com>; Hood, Brent [USA - EMP] <BHood@versar.com>

Subject: Potential Water Main Leak

[EXTERNAL SENDER]

Betsy and Danielle,

Our IDDE crew came across a potential water main leak today while conducting screenings. While the tests only revealed a hit for Total Chlorine, not warranting the immediate notification if it were both Chlorine and Copper together, we still wanted to pass along this information so you could notify Water and Sewer of a potential water main leak. The leak is occurring somewhere along Marcham Road in Bel Air, MD.

Upon arriving at OF000309 (Figure 1), our crew noticed a flow of around 10 LPM and a very strong odor of Chlorine. The crew tested the water and observed a Total Chlorine concentration of greater than or equal to 1 mg/L, above the action criterion of 0.4 mg/L; all other parameters were below action criteria. After completing all portions of the electronic survey, the crew performed a track down of the infrastructure (Figure 2), and isolated the flow origin to somewhere between the manhole on Vale Road (flowing) and Carlton Way (dry). Aerial imagery of the surrounding area shows no houses with pools, so we surmise that the flow is originating from a water main.



Figure 1. OF000309



Figure 2. Map showing origin of flow along Marcham Road

Let me know if you need further information regarding this potential issue and I will respond as quickly as I can.



Ryan Corbin
Project Manager/Environmental Scientist
Applied Professional & Technology Solutions (APTS)
Environmental Management
Direct: 410-740-6071
Mobile: 410-259-2261
rcorbin@versar.com

Harford County Illicit Discharge Site Visit Report – Follow-Up Report

Outfall ID: OF001491

Location: 816 West Farrow Court, Bel Air, MD 21014

Dates: Initial screening March 10 and 11, 2025; follow-up screening April 18, 2025

Investigators: B. Hood and M. Berlett

Concern: Elevated surfactants (detergents)

On March 10 and 11, 2025, a Versar Global Solutions (Versar) field team inspected outfall OF001491, which is located southwest of the cul-de-sac of West Farrow Court, in Bel Air, Maryland. During the first visit, the team observed a trickling discharge flowing at the outfall (Figure 1). The team obtained a sample of the clear and odorless discharge to test for illicit discharge indicators. The results of the tests are provided in Table 1, as Test 1. The results indicated a concentration of surfactants (detergents; 0.3 mg/L) that exceeded the program action level threshold; all other measurements of applicable parameters were below the relevant thresholds.

The crew conducted a trackdown of the stormwater network on March 10. The team traced the flowing water up the network from the outfall to the access point at the intersection of West Fallow Court with Heston Court and Heston Lane; the next access point up the system, at the corner of West Farrow Court and Brentwood Park Drive, exhibited dry conditions. The map shown in Figure 2 illustrates the location of the screened outfall and the approximate locations of the associated stormwater infrastructure features (as depicted in the data provided by Harford County); the map also indicates where the team observed flowing and dry conditions.

The Versar field team returned to the site for a re-test on the following day, March 11. The team observed that the conditions at the outfall were similar to those documented during the first visit. The crew collected a sample of the trickling discharge at the outfall pipe opening to test for water quality parameters. The results of the tests of the sample are provided in Table 1, as Test 2. The test results indicated that measurements of all parameters were below the relevant thresholds.

Harford County staff reviewed the site visit report that was submitted by Versar on March 11 and responded with a request (March 19) that Versar conduct another screening of the outfall at least one month after the initial screening. The Versar field team complied with the request and returned to the site for a follow-up screening on April 18. The team observed that the outfall exhibited a trickling discharge. The team obtained a sample of the clear and odorless discharge to test for illicit discharge indicators. The results of the tests are provided in Table 1, as Test 3. The test results indicated that measurements of all parameters were below the relevant program thresholds; thus, the discharge is not considered illicit, and no further action is needed to address the issue.

Table 1. Chemical test results of samples taken at outfall OF001491 on March 10 and 11 (Test 1 and Test 2, respectively) and during a follow-up re-test on April 18 (Test 3); a red value indicates a measurement that exceeds the action level

	Action Level	Test 1 Results	Test 2 Results	Test 3 Results
pH	N/A	7.68	7.84	7.77
Temperature (°C)	> 23.9	12.2	13.1	14.4
Total Chlorine (mg/L)	≥ 0.4	0.05	0.05	0.0
Surfactants (Detergents; mg/L)	> 0.25	0.3	0.25	0.2
Phenols (mg/L)	> 0.05	0.0	0.0	0.0
Copper (mg/L)	> 0.05	0.0	0.0	0.0
Conductivity (mS/cm)	N/A	1.537	1.359	1.009
Turbidity (NTU)	≥ 1000	2.11	1.35	2.23

Abbreviations: °C = degrees Celsius; cm = centimeter; L = liter; mg = milligrams; mS = milliSiemens; N/A = not applicable; NTU = Nephelometric Turbidity Unit



Figure 1. Conditions at outfall OF001491 on March 10, 2025

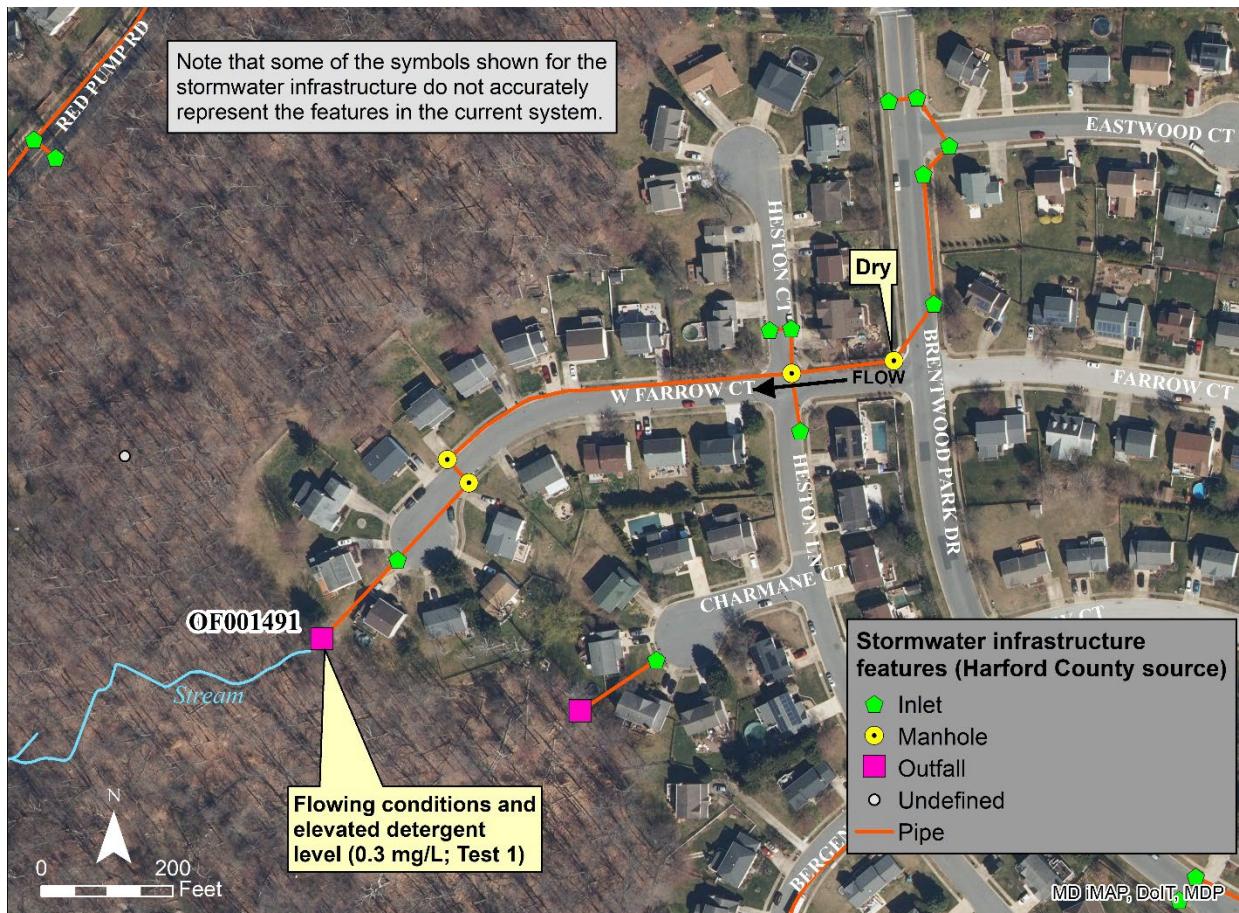


Figure 2. Area map that illustrates the stormwater infrastructure data and discharge flow conditions, as assessed during the outfall screening conducted on March 10, 2025



Outlook

Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

From Wong, David <dwong@harfordcountymd.gov>
Date Sat 6/7/2025 12:15 PM
To McClelland, Anna <acmclelland@HarfordCountyMD.GOV>
Cc Hankins, Danielle <dhankins@harfordcountymd.gov>

Will do. Ill add it to the HSI database next week.

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From: McClelland, Anna <acmclelland@HarfordCountyMD.GOV>
Sent: Friday, June 6, 2025 2:05:10 PM
To: Wong, David <dwong@harfordcountymd.gov>
Cc: Hankins, Danielle <dhankins@harfordcountymd.gov>
Subject: Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

Dave,

Could you follow up next week to log the hotspot/IDDE location?

Thank you for your help and advice on this today.



Anna McClelland | Watershed Restoration Specialist I
Department of Public Works
Watershed Protection & Restoration
212 South Bond Street, 1st Floor | Bel Air, MD 21014
410.638.3217 ext. 2445
acmclelland@harfordcountymd.gov | www.harfordcountymd.gov

From: McClelland, Anna <acmclelland@HarfordCountyMD.GOV>
Sent: Friday, June 6, 2025 2:03 PM
To: Wong, David <dwong@harfordcountymd.gov>; Hankins, Danielle <dhankins@harfordcountymd.gov>; Davies, Michael <mtdavies@harfordcountymd.gov>
Cc: Michael, Matt <mtmichael@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>
Subject: Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

Thank you, Dave.

Just an update, I went out this morning and took pictures of the dumpster discharging fluids. Upon coordinating with everybody on the team we have advised the contractor to take the appropriate steps for prevention.

I called the contractor who is responsible for the construction and dumpster at 1702 Woodhome Drive. I spoke with the office manager stating that this is something we take very seriously, and that they must take measures to ensure the discharge is handled appropriately. We advised that they cover the dumpster at the end of each workday, as well as putting straw bales downstream of the dumpster to prevent any more fluid entering the drain. She stated that she would speak with the construction manager immediately following our call, and I told her we would follow up about it next week.

I also called and updated the homeowner who placed the initial complaint, she was very thankful for our quick response and said she would call back if it continues in the future. We will also visit sometime early next week to re-assess the situation and see if they followed our instructions.

Thanks everybody for your help on this today, have a great weekend!

Anna McClelland



Anna McClelland | Watershed Restoration Specialist I

Department of Public Works

Watershed Protection & Restoration

212 South Bond Street, 1st Floor | Bel Air, MD 21014

410.638.3217 ext. 2445

acmclelland@harfordcountymd.gov | www.harfordcountymd.gov

From: Wong, David <dwong@harfordcountymd.gov>

Sent: Friday, June 6, 2025 10:55 AM

To: Hankins, Danielle <dhankins@harfordcountymd.gov>; Davies, Michael <mtdavies@harfordcountymd.gov>

Cc: Michael, Matt <mtmichael@harfordcountymd.gov>; McClelland, Anna <acmclelland@HarfordCountyMD.GOV>

Subject: Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

Based upon Anna's pictures, there is an illicit discharge of some substance entering the storm drain. If you would like, next week I can prepare a letter and educational materials to be sent to the homeowner. Just let me know how you would like to proceed. We could suggest that they place a strawbale or other diversion system to push the discharge to the grass and away from the storm drain, but it is also unclear what the liquid discharging from the dumpster is. It could be rusted water or it could be something else.

-Dave

David A. Wong | DPW Contractor

Department of Public Works

Watershed Protection and Restoration

212 South Bond Street, 1st Floor | Bel Air, MD 21014

410.638.3217 ext. 1247

dwong@harfordcountymd.gov | www.harfordcountymd.gov

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Cc: Michael, Matt <mtmichael@harfordcountymd.gov>; Wong, David <dwong@harfordcountymd.gov>; McClelland, Anna <acmclelland@HarfordCountyMD.GOV>

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Thank you for the clarification.

Anna is going out to take some pictures now.

Danielle Hankins
MS4 Program Administrator

410.638.3217 ext. 1176

443.862.5367 - cell

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Subject: RE: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

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**Michael T. Davies | Chief Inspector-Environmental
Department of Public Works
Environment & Sustainability
212 South Bond Street, Bel Air, MD 21014
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Subject: RE: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

Good Morning Mike.

We can have someone take a look at this. However, from our perspective, the only thing we can do is education and outreach regarding proper dumpster use. If we know where the pollutant is coming from there is nothing to "trace". I also don't have any regulatory authority to make them do anything. We refer cases to MDE for further investigation.

I noticed this is the home from the recent accident and fire. I see they have some building permits. Do they have an active ESC permit? I'm not sure if there is any ground disturbance. We could suggest they empty the dumpster and/or place a filter log in the curb.



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Danielle,

I received a phone call from a woman named Laura (443-764-4931). She said there is house construction occurring at 1702 Woodhome Drive. They have a dumpster out front on the street and a strange liquid discharge flowing from the dumpster to a nearby storm drain. Can you please investigate and call her back with an update?

Thanks,

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Outlook

Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

From McClelland, Anna <acmclelland@HarfordCountyMD.GOV>

Date Wed 6/11/2025 9:52 AM

To Wong, David <dwong@harfordcountymd.gov>

Cc Hankins, Danielle <dhankins@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>

1 attachment (153 KB)

Woodhome6.7.2025.jpg;

Thank you for adding that, Dave!

Update:

I drove by on Saturday morning (6/7) and took the picture attached. They followed our instructions to cover the dumpster and placed a straw bale at the primary point of discharge from the dumpster.

On Tuesday (6/10) I received a call from the contractor stating that they received a complaint from the HOA about the mess, and that they were required to clean up the stained driveway and roadside. Danielle, Betsy, and I advised them to use PIG Microbial Oil Stain Remover (Stormwater Safe), and a filter log downstream to filter out any residual material.

I will visit sometime on Friday to check and assess if they took the proper precautions to ensure a safe cleanup.

Thank you everybody for your help!!

Anna

Logo
Description
automatically
generated

Anna McClelland | Watershed Restoration Specialist I

Department of Public Works

Watershed Protection & Restoration

212 South Bond Street, 1st Floor | Bel Air, MD 21014

410.638.3217 ext. 2445

acmclelland@harfordcountymd.gov | www.harfordcountymd.gov

From: Wong, David <dwong@harfordcountymd.gov>

Sent: Wednesday, June 11, 2025 7:52 AM

To: McClelland, Anna <acmclelland@HarfordCountyMD.GOV>

Cc: Hankins, Danielle <dhankins@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>

Subject: Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

The IDDE/Hotspot has been logged under case number: 202500630

Hotspot Database:

J:\03 Pollution Prevention\Illicit Discharge\Hotspot Inspections

Database: Hotspots

Documentation:

J:\03 Pollution Prevention\Illicit Discharge\Hotspot Inspections\2025\2025 Complaints\01238051_1702WoodhomeDr

The case is still considered open until after a follow-up visit to determine if corrective actions have been taken to address the illicit discharge. I would check the site after the next significant rain event. We can close this case after the dumpster is removed from

the site or if the dumpster is covered and a discharge is no longer occurring. Just let me know about any follow-up visits and provide me with any documentation for those visits. Thank you.



David A. Wong | DPW Contractor
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Watershed Protection and Restoration
212 South Bond Street, 1st Floor | Bel Air, MD 21014
410.638.3217 ext. 1247
dwong@harfordcountymd.gov | www.harfordcountymd.gov



From: McClelland, Anna <acmclelland@HarfordCountyMD.GOV>
Sent: Friday, June 6, 2025 2:05 PM
To: Wong, David <dwong@harfordcountymd.gov>
Cc: Hankins, Danielle <dhankins@harfordcountymd.gov>
Subject: Re: Illicit Discharge Complaint 1702 Woodhome Drive (off Patterson Mill)

Dave,

Could you follow up next week to log the hotspot/IDDE location?

Thank you for your help and advice on this today.



Anna McClelland | Watershed Restoration Specialist I
Department of Public Works
Watershed Protection & Restoration
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From: McClelland, Anna <acmclelland@HarfordCountyMD.GOV>
Sent: Friday, June 6, 2025 2:03 PM
To: Wong, David <dwong@harfordcountymd.gov>; Hankins, Danielle <dhankins@harfordcountymd.gov>; Davies, Michael <mtmdavies@harfordcountymd.gov>
Cc: Michael, Matt <mtmichael@harfordcountymd.gov>; Collins, Elizabeth <bacollins@harfordcountymd.gov>
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Danielle,

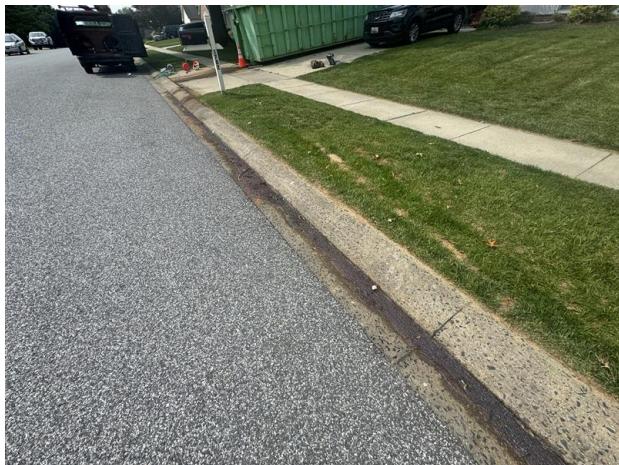
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1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 06, 2025



NOTE: Discharge leaving the dumpster and draining to curb

1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 06, 2025



Note: Discharge in curb entering storm drain. Operators were contacted and asked to remediate activities to prevent discharges from leaving dumpster and entering storm drain.

1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 06, 2025



1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 07, 2025



Inspection on 6/11/25 shows a covered dumpster and straw bales placed in front of the dumpster to mitigate fluids leaving the dumpster and entering the storm drains.

1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 13, 2025



Site visit on 6/13/25; Discharge from dumpster has been eliminated but staining still exists along the curb. Homeowner and contractor are working to remove the stains. Case was closed after discharge was eliminated.

1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 13, 2025



Site visit on 6/13/25; Discharge from dumpster has been eliminated but staining still exists along the curb. Homeowner and contractor are working to remove the stains. Case was closed after discharge was eliminated.

1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 13, 2025



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1702 Woodhome Drive
Bel Air, MD 21015
Inspection Date: June 13, 2025



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ROBERT G. CASSILLY
Harford County Executive

ROBERT S. McCORD
Director of Administration



JOSEPH J. SIEMEK, P.E.
Director of Public Works

November 4, 2024

BUDGET AUTO SALES
ATTN: BUSINESS OPERATOR
1633 PULASKI HWY
HAVRE DE GRACE, MD 21078-0000

RE: 1633 Pulaski Hwy (Budget Auto Sales)
Tax ID 06008445

To Whom It May Concern;

Harford County Department of Public Works is responsible for administering the County's municipal stormwater permit. The permit requires the County to monitor and inspect commercial and industrial sites for potential stormwater pollutants, and to minimize the risk of stormwater contamination. A citizen complaint was received by our department on October 28, 2024 regarding activities on your property.

The following deficiency was reported:

OUTDOOR CAR WASHING

Pursuant to the authority contained in the Harford County Code Chapter 1 General Provisions and Chapter 109 Environmental Control, a site inspection of your property (referenced above) was previously made on **12/19/2023**. The following areas were investigated as potential pollutant sources: outdoor material storage, waste management, maintenance, turf and landscaping, unique operations, and stormwater infrastructure. A copy of the report is enclosed.

While no active pollution was observed at the time of the inspection in 2023, there were some business practices that were identified that had the *potential* for polluting stormwater including **outdoor washing and detailing of vehicles** that produced run-off into storm drains on your property. Attached, you will find a copy of the original report that was sent after the initial inspection. It was initially reported that the washing and detailing was being conducted by a third party not associated with the business. Outdoor vehicle washing at a commercial property is prohibited, unless a permit is obtained from

Harford County Celebrates 250 Years ~ 1773-2023

410.638.3285 | 410.879.2000 | 212 South Bond Street, Bel Air, Maryland 21014 | www.harfordcountymd.gov

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST

Maryland Department of the Environment. Vehicle wash water is prohibited from entering the storm drain system and must be contained on the property or discharged to a sanitary sewer system. Enclosed are fact sheets, describing the County's stormwater permit, and good-housekeeping practices that pertain to your business. We encourage businesses to implement these good-housekeeping practices and to train employees to follow these practices to minimize the risk of stormwater contamination.

Please respond to this letter within 30 days of receipt with a detailed plan to address the problem areas and a schedule for completion. We would greatly appreciate feedback from you if you have implemented these measures. If you have any questions about the good-housekeeping practices or need additional information, please contact me at (410)638-3217 ext 1176 or via email at dhankins@harfordcountymd.gov. I would be happy to assist you.

Sincerely,

Danielle Hankins
MS4 Program Administrator

Enclosure
DH:daw

cc: S. Walsh; Brian and Cherie Trees

ROBERT G. CASSILLY
Harford County Executive

ROBERT S. McCORD
Director of Administration



JOSEPH J. SIEMEK, P.E.
Director of Public Works

January 9, 2024

BRIAN AND CHERIE TREES
26 NEPTUNE DR
JOPPA, MD 21085

RE: 1633 Pulaski Hwy
Tax ID: 06008445

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Sincerely,

A handwritten signature in blue ink that reads "Michele Dobson".

Michele Dobson
Civil Engineer

Enclosure
MGD:daw

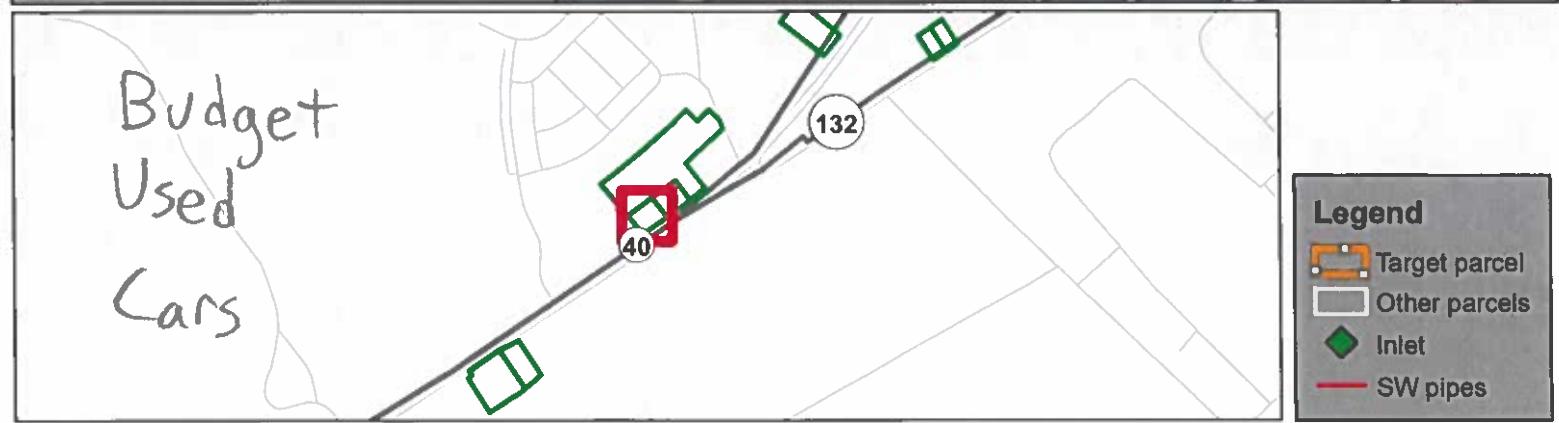
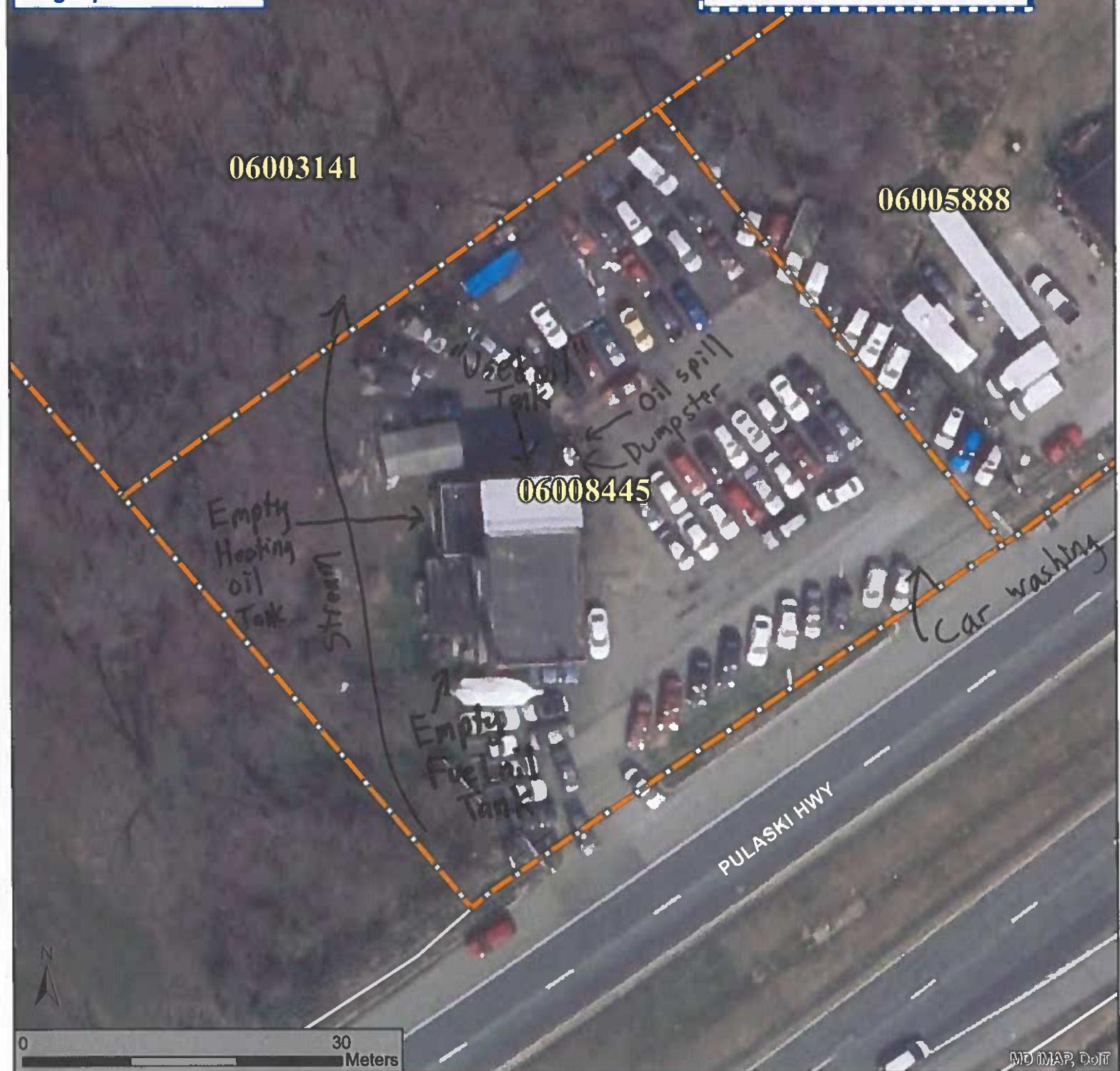
Harford County Celebrates 250 Years ~ 1773-2023

410.638.3285 | 410.879.2000 | 212 South Bond Street, Bel Air, Maryland 21014 | www.harfordcountymd.gov

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST

WATERSHED:	SUBWATERSHED:	UNIQUE SITE ID: 06008445
DATE: 12/19/2023	ASSESSED BY: MB MM	CAMERA ID: Blue
MAP GRID:	LAT ° ' " LONG ° ' "	LMK #
A. SITE DATA AND BASIC CLASSIFICATION		
Name and Address: Budget Auto Sales 1633 Pulaski Hwy - Hayre de Grace	Category: <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility	Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Poor <input type="checkbox"/> Very Poor
SIC code (if available):	Basic Description of Operation: Auto Sales a ice	
NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown	INDEX*	
B. VEHICLE OPERATIONS <input type="checkbox"/> N/A (Skip to part C)	Observed Pollution Source?	
B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input checked="" type="checkbox"/> Other: Vehicles for sale		
B2. Approximate number of vehicles: 30		
B3. Vehicle activities (circle all that apply): Maintained <input checked="" type="checkbox"/> Repaired <input type="checkbox"/> Recycled <input type="checkbox"/> Fueled <input checked="" type="checkbox"/> Washed <input checked="" type="checkbox"/> Stored		
B4. Are vehicles stored and/or repaired outside? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
Are these vehicles lacking runoff diversion methods? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
B5. Is there evidence of spills/leakage from vehicles? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell		
B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell N		
B8. Are vehicles washed outdoors? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
Does the area where vehicles are washed discharge to the storm drain? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
C. OUTDOOR MATERIALS <input type="checkbox"/> N/A (Skip to part D)	Observed Pollution Source?	
C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell N/A		
C2. Are materials stored outside? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they <input checked="" type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid Description: Tires Where are they stored? <input checked="" type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area Used oil		
C3. Is the storage area directly or/indirectly connected to storm drain (circle one)? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell Stream		
C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell		
C5. Does outdoor storage area lack a cover? <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell Mostly under cover		
C6. Are liquid materials stored without secondary containment? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell		
D. WASTE MANAGEMENT <input type="checkbox"/> N/A (Skip to part E)	Observed Pollution Source?	
D1. Type of waste (check all that apply): <input checked="" type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input type="checkbox"/> Hazardous materials		
D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing OK		
D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell		
E. PHYSICAL PLANT <input type="checkbox"/> N/A (Skip to part F)	Observed Pollution Source?	
E1. Building: Approximate age: 75 yrs. Condition of surfaces: <input checked="" type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged Evidence that maintenance results in discharge to storm drains (staining/discholoration)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Don't know		

*Index: denotes potential pollution source; denotes confirmed polluter (evidence was seen)



Wong, David

From: Bob Hamilton <bobbudget1@gmail.com>
Sent: Friday, November 29, 2024 10:28 PM
To: Hankins, Danielle
Cc: Wong, David
Subject: Re: 1633 PULASKI HWY, HAVRE DE GRACE, MD 21078
Attachments: image001.png

[EXTERNAL SENDER]

Good morning Danielle,
Thanks for your kind words involving this issue. I can assure I will do everything I can to make this not happen again. Thanks again to you and Dave for your help. I hope you guys had a wonderful Thanksgiving Holiday
Bob Hamilton

On Mon, Nov 25, 2024, 10:21 AM Hankins, Danielle <dhankins@harfordcountymd.gov> wrote:

Good Morning Bob.

I wanted to reach out and let you know that this email got to me. I appreciate the kind words and most importantly the support towards our MS4 program and efforts. If you should have any questions in the future, please feel free to reach out to Dave or myself.

Have a Happy Thanksgiving.



Danielle Hankins | MS4 Program Administrator

Department of Public Works

Watershed Protection & Restoration

<212 S. Bond Street, 1st Floor> | Bel Air, MD 21014

410.638.3217 ext. 1176 | 443.862.5367 - cell

dhankins@harfordcountymd.gov | www.harfordcountymd.gov 

From: Wong, David <dwong@harfordcountymd.gov>
Sent: Thursday, November 21, 2024 1:04 PM
To: Hankins, Danielle <dhankins@harfordcountymd.gov>
Subject: Fw: [1633 PULASKI HWY, HAVRE DE GRACE, MD 21078](#)

Looks like bob left off the V in the email address. He sent this email over after he and i spoke this morning explaining his actions to eliminate the discharge to the MS4 system.

Get [Outlook for Android](#)

From: Bob Hamilton <bobbudget1@gmail.com>
Sent: Thursday, November 21, 2024 10:14:22 AM
To: DHANKINS@harfordcountymd.go <DHANKINS@harfordcountymd.go>
Cc: Wong, David <dwong@harfordcountymd.gov>; Bob Hamilton <bobbudget1@gmail.com>
Subject: [1633 PULASKI HWY, HAVRE DE GRACE, MD 21078](#)

[EXTERNAL SENDER]

TO:Ms. D. Hankins

Mr.D. Wong

Good morning. First I want to thank you Ms. Hankins for sending your letter to me regarding the outdoor car washing entering the storm drain system. Thank you also for asking Mr David Wong to call me to help counsel me on this matter and provide a resolution to this issue

Mr Wong was extremely helpful and caring in his conference with me.

Moving forward, I certainly agree we should not put car wash materials into the storm drain system. We have already stopped the Detailer from detailing and washing cars where the residue will enter the highway way out in front of the property and enter the storm drainage system. We have designated in the rear of the property a spot to wash cars on an impervious surface. I will continue to supervise him and counsel him on the appropriate practices when cleaning a car.

I understand the importance of this issue and appreciate your help in this matter. I have made it perfectly clear to my staff that this must never happen again..If you have any further concerns please do not hesitate to contact me thru my email bobbudget@gmail.com or cell 410 -382-9036

Bob Hamilton

Budget Auto Sales

410-939-8460

ROBERT G. CASSILLY
Harford County Executive

ROBERT S. McCORD
Director of Administration



JOSEPH J. SIEMEK, P.E.
Director of Public Works

September 22, 2025

LOS PRIMOS HAND CAR WASHING AND DETAILING
1601 BELAIR RD
FALLSTON MD 21047

RE: 1601 BELAIR RD; VEHICLE WASHING DISCHARGE
Tax ID: 03-036731

To Whom It May Concern;

Harford County Department of Public Works is responsible for administering the County's municipal stormwater permit. The permit requires the County to monitor and inspect sites for potential stormwater pollutants, and to minimize the risk of stormwater contamination.

The County received a report from a concerned resident regarding vehicle washing activities on the property potentially discharging wastewater into the groundwater. Under Maryland regulations, a discharge permit is required for any release of wastewater—including vehicle washwater—into ground or surface waters. Vehicle washwater is classified as wastewater due to its potential to contain pollutants such as chlorine, salts, sediments, detergents, oils, and grease. Improper management of washwater can result in contamination of streams, rivers, and groundwater, posing risks to water quality and public health. Maryland General Discharge Permit 21-VW authorizes the discharge of exterior vehicle washwater to groundwater from commercial washing operations and prohibits discharge to surface waters.

Enclosed are two fact sheets for your reference:

- Harford County Stormwater Pollution Prevention – Outdoor Washing: Provides best practices for minimizing pollution during outdoor washing and cleaning activities.
- Maryland Department of the Environment – General Discharge Permit 21-VW – “*General Permit for Discharges of Exterior Vehicle Washwater from Commercial and Business-Related Operations to Groundwater*”: Covers the scope and limitations of the permit for exterior vehicle washwater discharges to groundwater. It includes details on unauthorized operations, alternative washwater management options, vehicle washing classifications, and chemical testing requirements.

Harford County Celebrates 250 Years ~ 1773-2023

410.638.3285 | 410.879.2000 | 212 South Bond Street, Bel Air, Maryland 21014 | www.harfordcountymd.gov

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST

For more information regarding Maryland General Discharge Permit 21-VW, visit:
<https://mdewwp.page.link/VWGP>.

If you have any questions or need additional information, please contact me at (410) 638-3217 x1176 or via email at dhankins@harfordcountymd.gov or Richard Wise at (410) 638-3217 x2446 or via email at rhwise@harfordcountymd.gov.

Sincerely,



Danielle M. Hankins
MS4 Program Administrator
Harford County Department of Public Works
Watershed Protection and Restoration Office

Enclosures
DMH/rw

Re: Update on Vehicle Washing Activities at Los Primos Car Wash

From SCOTT evans <stevans99@hotmail.com>

Date Wed 10/15/2025 1:28 PM

To Wise, Richard <rhwise@harfordcountymd.gov>

[EXTERNAL SENDER]

Thank you for your prompt response and thorough investigation
Sent from my iPhone

On Oct 15, 2025, at 1:00 PM, Wise, Richard <rhwise@harfordcountymd.gov> wrote:

Good afternoon, Mr. Evans,

I'm writing to provide an update regarding your concerns about vehicle washing activities at Los Primos Car Wash.

During our site visit this morning, we observed that a berm has been constructed on the property to help contain wash water and prevent it from entering nearby surface waters. The berm redirects the flow of wash water into a hand-dug trench and a collection sump, from which the water is pumped into a nearby tank.

We spoke with both the car wash operator and the property owner of 1601 Bel Air Road. We recommended that the trench and sump be lined to prevent infiltration of wash water into the ground. A follow-up inspection is scheduled for next week, on either October 23 or 24, to verify that this lining has been installed.

Please note that this is a temporary measure and the actions taken by the car wash operator and property owner have them in compliance. The property owner has obtained a permit from the Harford County Division of Water & Sewer to connect to the public water and sewer system. A contractor has been secured to complete the necessary work, though it may take some time for the installation of necessary plumbing on the property to be completed, inspected, and approved. The business owner has been very open to working with us to protect the water resources of the community.

If you have any questions or need further information, please don't hesitate to reach out.

Best regards,
Rich

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Desc.png>

Richard Wise | Watershed Restoration Environmental Specialist III
Department of Public Works
Watershed Protection & Restoration
212 South Bond Street, 1st Floor | Bel Air, MD 21014
410.638.3217 ext. 2446
rhwise@harfordcountymd.gov | www.harfordcountymd.gov
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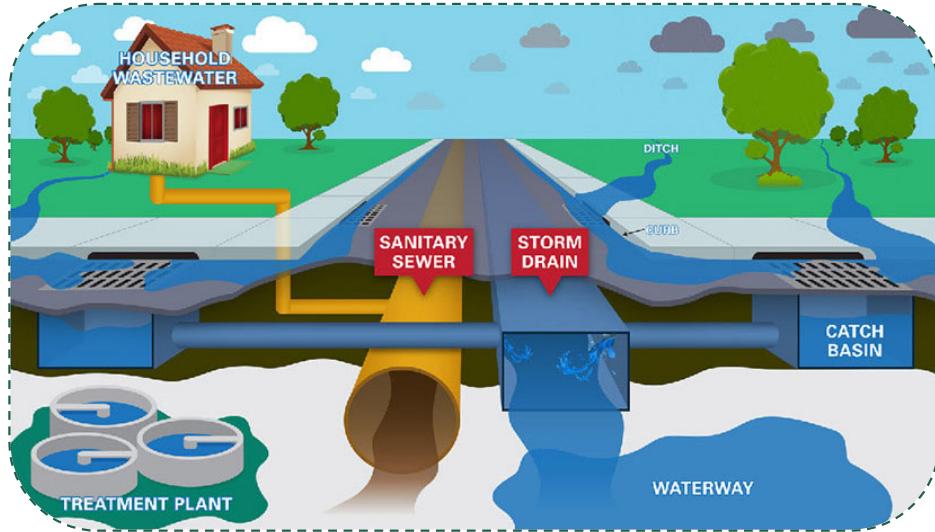
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Harford County Stormwater Pollution Prevention

MS4 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM



What is an MS4 Permit?

The Federal Clean Water Act (CWA) specifies stormwater runoff as a point source pollutant that must be regulated. The CWA requires a National Pollution Discharge Elimination System (NPDES) permit for all point source discharge. The specific NPDES permit that states, counties, and towns must abide by is called the Municipal Separate Storm Sewer System, or MS4. Where this permit is applicable, stormwater drainage systems are separate from sanitary sewer systems. Harford County is required to implement an Illicit Discharge Detection and Elimination (IDDE) Program to ensure that all discharges to and from the storm drain system are composed entirely of uncontaminated stormwater. Contaminated discharges must be eliminated. Harford County's IDDE Program is administered by Harford County Department of Public Works, Office of Watershed Protection and Restoration. For more information, visit Harford County's website at <https://www.harfordcountymd.gov/1841/Harford-Streams>.

What is an illicit discharge?

An illicit discharge is the discharge of pollutants into the storm sewer system via overland flow, direct dumping, or illicit connections. Illicit connections are pipes or other direct connections that illegally or unknowingly release pollutants into a storm sewer system or directly into a body of water.

Sanitary Sewer System

The sanitary sewer system is comprised of a series of drains and pipes that lead from toilets, sinks, dishwaters, and washing machines in houses and businesses to the local Wastewater Treatment Plant where the wastewater is treated before being discharged into a natural water body.

Storm Drain System

In Harford County, the storm drain systems are not connected to the sanitary sewer system. When it rains, a portion of the rainwater or stormwater flows over the land into the storm drain and discharges directly to our streams, rivers, and ultimately the Chesapeake Bay. Stormwater drainage systems can exist in the form of underground pipes or swales and ditches along the roadside that divert water to streams and rivers. These drainage systems are meant to carry only unpolluted stormwater. As the stormwater travels over land, it encounters and picks up many substances and pollutants that it carries with it downstream. These pollutants may have a significant impact to the water quality of streams, rivers and the Chesapeake Bay. This pollution can cause flooding, clogging, property damage, and endangerment to aquatic life, recreation, and drinking water. Therefore, it's very important that we allow **"only rain down the drain."**

Stormwater Pollutant Examples

✓ Motor Oil	✓ Paint	✓ Pet Waste	✓ Construction Debris
✓ Oil Filters	✓ Solvent	✓ Yard Waste	✓ Transmission Fluid
✓ Antifreeze	✓ Degreaser	✓ Dirt and Gravel	✓ Fertilizer
✓ Pesticides	✓ Detergent	✓ Trash	✓ Cooking Grease



Please report any illicit discharges to Harford County DPW at 410.638.3400 at any time of day.





GREASE WASTE MANAGEMENT

Proper grease and food management disposal can play a very important role in reducing the stormwater pollutants entering the storm drain system and polluting waterways. It is important that good housekeeping practices for kitchen grease disposal are used. If not properly disposed of, oil and grease can end up in streams. Waste grease and oil collected in containers requires proper training of employees, good housekeeping practices, and sanitary containment of fats, oils, and greases.



Pollution Prevention Techniques for Solid and Grease Waste Management

- ✓ Recycle oil and grease. Never pour oil or grease into sinks, floor drains, or onto a parking lot or street.
- ✓ Never dump grease down a storm drain. Do not put liquid or grease in trash containers.
- ✓ Designate an area for waste collection away from storm drains and ensure the area is located on a concrete or impervious surface. Design the waste handling area to contain spills and prevent contact with stormwater.
- ✓ Keep the waste collection area clean, dry, and free of debris. Sweep the area regularly. If any leaks or spills are detected, clean with dry practices.
- ✓ If feasible, it is recommended to keep grease bins covered and contained. Store under roof or cover and ensure they have working lids. Ensure lids fit securely, are watertight, and are closed at all times.
- ✓ Have a grease trap or interceptor installed. Keep grease interceptor maintained to prevent sewer overflows or backups and keep records of grease waste hauling.
- ✓ Inspect and clean grease traps and bins regularly and have them regularly serviced and pumped or removed of grease by a licensed hauler. Call collector for service if container capacity is reached.
- ✓ Keep grease storage containers clean and wiped off to prevent accumulation of grime. Spot clean and schedule routine clean ups around oil and grease containers with scraping, dry absorbents, and sweeping. Wipe the outside of grease containers frequently. Never hose down the containers.
- ✓ Post signs to remind employees of good housekeeping practices and proper use.
- ✓ Provide sturdy, lidded containers for oil transport from kitchen to outside receptacles or bring oil and grease containment bins inside. Prevent grease from dripping or overflowing when transferring and emptying containers.





LOADING & UNLOADING

Materials spilled or leaked during loading and unloading can either be carried away in stormwater runoff or washed off when the area is cleaned. As a result, many different pollutants can be introduced to the storm drain system, including sediment, nutrients, trash, organic material and trace metals. The risk of stormwater pollution is greatest for operations that transfer high volumes of material or liquids or unload potentially hazardous material. Special attention should be paid to the loading and offloading of bulk materials.



Trash and Debris



Open Trench Drain

Pollution Prevention Techniques for Loading and Unloading Areas

- ✓ Avoid loading and unloading materials in the rain.
- ✓ Inspect the integrity of all containers before loading/unloading.
- ✓ Train all employees, especially forklift operators, on good housekeeping practices and post signs.
- ✓ Design liquid storage areas with impervious surfaces and secondary containment.
- ✓ Cover adjacent storm drains during loading and unloading operations to keep debris out.
- ✓ Sweep loading/unloading area surfaces frequently to remove material and debris. Don't wash by hosing the area down. Collect trash and litter before it can be washed into the storm drain system.



Harford County Stormwater Pollution Prevention



LOADING & UNLOADING



Loading Dock Seal



Spill Containment

Pollution Prevention Techniques for Loading and Unloading Areas

- ✓ Cover loading/unloading areas with a canopy or roof if possible and surround the loading/unloading areas with berms or grading to prevent contact with or pooling of stormwater.
- ✓ Place drip pans at locations where leaks or spills may occur and always use pans when making and breaking connections.
- ✓ Position roof downspouts to direct stormwater away from loading/unloading areas and preferably into stormwater best management practices such as bioretention areas.
- ✓ Use seals, overhangs, or door skirts on docks and terminals to prevent contact with rainwater.
- ✓ Ensure that a trained employee is always present to handle and cleanup spills and have an Emergency Spill Cleanup Plan prepared for the facility.
- ✓ Pave the loading/unloading area with concrete rather than asphalt.



Harford County Stormwater Pollution Prevention



OUTDOOR STORAGE

Protecting outdoor storage areas is a simple and effective pollution prevention practice for many commercial, industrial, municipal and transport related operations. The goal for outdoor storage pollution prevention is to prevent contact between stormwater runoff (rainfall) and outdoor materials in order to prevent runoff contamination. Unprotected outdoor storage areas can generate a wide range of stormwater pollutants, such as sediment, nutrients, toxic materials, and oil and grease.



Uncovered
Outdoor
Storage



Pollution Prevention Techniques for Protecting Outdoor Storage Areas

- ✓ If possible, store all materials inside. If this is not feasible, all outside storage areas should be covered with a roof and enclosed to prevent storm water contact. Utilize secondary containment measures.
- ✓ Keep an up-to-date inventory of materials stored outdoors and try to minimize them. Label all waste containers.
- ✓ Train employees on proper material storage and proper techniques for spill containment and cleanup.
- ✓ Cover and contain stockpiles of raw materials to prevent stormwater from running into the covered piles. Covers must be in place at all times when work with the stockpile is not occurring.



Harford County Stormwater Pollution Prevention



OUTDOOR STORAGE



**Covered Secondary
Containment**



**Covered Raw Material
Stockpile**

Pollution Prevention Techniques for Protecting Outdoor Storage Areas

- ✓ Ensure all outdoor storage containers have lids and that they are kept closed. Keep materials and waste off the ground, under roof, and away from places with exposure to precipitation. Consider storing materials on pallets to elevate them. If a roof is not possible, cover the materials securely with an impervious material.
- ✓ Store liquids in covered labeled containers. Barrels and containers with any amount of hazardous material such as oil, chemicals, batteries or paint must be properly labeled, placed in secure containers, and stored in a covered area.
- ✓ Inspect outdoor storage containers regularly to ensure that they are in good condition. Perform inspections by walking the site to look for materials stored outside on a temporary or permanent basis that are exposed to rainfall and amend any issues found.
- ✓ Position roof downspouts to direct stormwater away from loading and unloading areas. Prevent runoff from reaching storm drain inlets. Ensure there are no streak or stain lines on the way to the storm drain. If these are found, resolve the issue.
- ✓ Keep storage areas clean and dry. Minimize trash. Keep lids on trash/recycling cans, bins, and other outdoor containers. Collect all trash, litter, or debris before it can be washed into the storm drain system.





OUTDOOR WASHING

Outdoor washing of vehicles, equipment, buildings, roadways, and parking lots can cause stormwater pollution. Wash water may contain chlorine, salts, sediments, phosphorous, metals, soaps, oil and grease, and other pollutants that can degrade water quality. Dirty wash water that is not properly managed can lead to water contamination in streams, rivers, and groundwater.



Outdoor Wash Water Discharge to Storm Drain

Pollution Prevention Techniques for Outdoor Washing and Cleaning

- ✓ Perform all washing operations indoors if possible.
- ✓ Ideally, all vehicles and equipment should be washed at commercial car washes or indoor facilities that are specially designed for washing operations and that recycle, treat, or convey wash water to the sanitary sewer system.
- ✓ If outdoor washing is necessary, contain, control, and capture all outdoor wash water. Utilize oil separators and ensure that wash water is directed toward the sanitary sewer system and that it never discharges into the street, gutter, or storm drain.
- ✓ Use biodegradable, phosphate-free, water-based soaps. Do not use solvents. Avoid using cleaning products that contain hazardous substances such as hydrofluoric acid, sodium hydroxide, bleach, muriatic acid, etc.
- ✓ Minimize water use. Utilize flow-restricted nozzles that automatically turn off when left unattended. Use a spray nozzle or bucket when possible to conserve water and minimize wash water.
- ✓ If pressure washing to clean surfaces such as equipment, parking lots, sidewalks, or buildings, collect the wash water and debris and properly dispose of each in the sanitary sewer system and garbage. Pressure washing and capture can reduce the amount of pollutants that may end up in waterways during a heavy rain event.





OUTDOOR WASHING



Containment System



Wash Water Drainage Prevention

Pollution Prevention Techniques for Outdoor Washing and Cleaning

- ✓ Outdoor vehicle washing requires a permit from MDE. Maryland General Permit No. 21-VW for the Discharge of Exterior Vehicle Wash water to Groundwater from Commercial and Business-Related Vehicle Washing Operations must be obtained prior to outdoor washing. For more information, visit the website below.
<https://mde.maryland.gov/programs/water/wwp/pages/16-vw.aspx>
- ✓ An outdoor washing operation should take place in a designated wash area on a paved impervious surface such as concrete and on wash pad that has a containment system to contain the wash water. The area should be sloped so that wash water is collected and discharged to the sanitary sewer system, holding tank, or dead-end sump pump and away from the storm drain system.
- ✓ Utilize temporary berms, storm drain covers, drain plugs, or other containment systems. Do not discharge wash water into subsurface disposal systems such as septic systems, dry wells or seepage pits.
- ✓ Label storm drains with "No Dumping, Drains to Chesapeake Bay" signs to prevent wash water drainage to inlets.
- ✓ Avoid engine and undercarriage washing which produces high pollutant concentrations. Do this indoors.
- ✓ Train employees on proper techniques to confine washing operations and prevent pollution.



Harford County Stormwater Pollution Prevention



SOLID WASTE MANAGEMENT

Proper waste management and disposal can play a very important role in reducing the amount of litter and pollutants entering the storm drain system and polluting waterways. Dumpsters and solid waste disposal can contribute to water pollution when leakage occurs with emptying, when drain plugs or lids are open, or if the bottom is damaged or rusted.



Uncovered Dumpster



Leaks and Spills

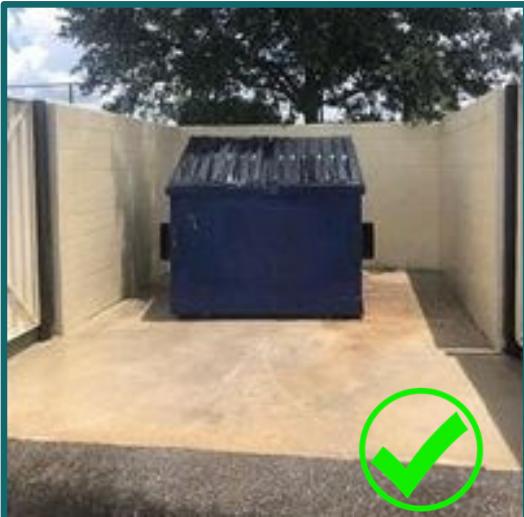
Pollution Prevention Techniques for Solid Waste Management

- ✓ Keep dumpsters under cover or ensure they have working lids. Ensure container lids fit securely, are watertight, and are closed at all times. Open lids allow contact with storm water which dissolves and transports pollutants into the storm water system.
- ✓ Walk the site and inspect dumpsters, trash cans, and trash compactors for leakage. Ensure dumpsters and waste containers are in good condition with no holes or accumulation of grime
- ✓ Trash containers should be leak free. If any leaks are found, take action to prevent and contain further leakage. Call your trash hauler to replace any dumpsters that are damaged or leak.
- ✓ Dispose of all unwanted toxic materials like cleaners, solvents and detergents through a hazardous waste hauler.
- ✓ Minimize storage of scrap metal by disposing of it periodically. Cover any trash stockpiles with impervious cover to prevent release of pollutants.
- ✓ Ensure all garbage is bagged and placed securely inside dumpsters with lids and doors closed. If roll off dumpsters are used for waste material, they should be covered with a tarp.





SOLID WASTE MANAGEMENT



Clean Concrete Dumpster Pad



Covered Dumpsters in Clean Area

Pollution Prevention Techniques for Solid Waste Management

- ✓ Designate an area for trash collection away from storm drains and on a concrete or impervious surface. Design waste handling areas to contain spills and prevent contact with stormwater.
- ✓ Post signs to remind employees of good housekeeping practices and proper use.
- ✓ Keep the trash collection area clean, dry, and free of debris. Sweep the area regularly. Collect trash and litter before it can be washed into the storm drain system. If any leaks or spills are detected, clean with dry practices.
- ✓ Schedule pickups with solid waste contractors frequently and don't allow overflow.
- ✓ Ensure dumpsters are disconnected from storm drain systems by keeping dumpsters and runoff from away from any inlets or storm drain systems.
- ✓ Minimize the amount of liquid disposed in dumpsters. Do not fill with large amounts of liquid waste. Do not hose out a dumpster to clean it unless flow is sure to be captured and directed to a sanitary sewer system.



Harford County Stormwater Pollution Prevention



VEHICLE FUELING

Spills at vehicle fueling operations have the potential to directly contribute oil, grease, and gasoline to stormwater, and can be a significant source of toxic metals and petroleum hydrocarbons. Delivery of pollutants to the storm drain can be sharply reduced by well-designed fueling areas and improved operational procedures.



Signs for Spill Prevention



Cleaning with Dry Methods

Pollution Prevention Techniques for Vehicle Fueling Operations

- ✓ Maintain an updated spill prevention and response plan on the premises of all fueling facilities and make sure each staff member knows where to find it and how to implement it.
- ✓ Cover fueling stations with a canopy or roof to prevent direct contact with rainfall.
- ✓ Design fueling pads for large mobile equipment to prevent the run-on of stormwater and collect any runoff in a dead-end sump. If the area is asphalt, ensure it is sealed with an impervious sealant. The concrete pad should extend the full length that the hose and nozzle assembly can be pulled plus an additional foot.
- ✓ Retrofit underground storage tanks with spill containment and overfill prevention systems.
- ✓ Clean fuel-dispensing areas with dry cleanup methods. Never wash down areas before dry clean up has been done. Ensure that wash water is collected and disposed of in the sanitary sewer system. Don't allow any discharge of clean up liquids to storm drains.
- ✓ Post signs instructing customers not to over-fill or overtop tanks. This will prevent fuel spills and leaks.



Harford County Stormwater Pollution Prevention



VEHICLE FUELING



Spill Kit



Containment Berm

Pollution Prevention Techniques for Vehicle Fueling Operations

- ✓ Keep emergency spill kit cleanup materials on the premises to promptly clean up spills. Ensure staff is educated on proper clean up techniques.
- ✓ Locate storm drain inlets away from the immediate vicinity of the fueling area and direct downspouts draining the roof cover to prevent discharge across the fueling area.
- ✓ Protect above ground fuel tanks using a containment berm with an impervious floor of concrete. The containment berm should have enough capacity to contain 110% of the total tank volume.
- ✓ Fuel dispensing areas should be graded with a slope that prevents ponding and separated from the rest of the site by berms, dikes, or other grade breaks that prevent run-on of urban runoff.
- ✓ Use fuel-dispensing nozzles with automatic shutoffs if allowed.



Harford County Stormwater Pollution Prevention



VEHICLE MAINTENANCE & REPAIR

Vehicle maintenance and repair operations can impact water quality by exposing toxins in solvents, waste oil, antifreeze, and other fluids to stormwater. Often, vehicles that are wrecked or awaiting repair can be stormwater hotspots if leaking fluids are exposed. The EPA states, "Used oil from one oil change can contaminate 1 million gallons of fresh water."



Secondary Containment



Used Liquid Collection Under Cover

Pollution Prevention Techniques for Vehicle Maintenance and Repair

- ✓ Collect and store all used antifreeze, oil, grease, oil filters, cleaning solutions, solvents, batteries, hydraulic and transmission fluids for recycling or proper offsite disposal. Ensure waste containers are in good condition.
- ✓ Conduct all vehicle and equipment repairs indoor or under a cover (if done outdoors).
- ✓ Designate a specific location for outdoor maintenance activities to prevent stormwater and groundwater pollution. The area should be paved, away from storm drains, and have stormwater containment measures.
- ✓ Seal service bay concrete floors with an impervious material to allow cleanup without using solvents. Use drip pans and dry absorbent to eliminate the need for wastewater collection and disposal systems.
- ✓ Do not discharge maintenance and service-related fluids and service bay floor washwater into subsurface disposal systems such as septic systems, dry wells, seepage pits and drainage holes or into storm drains or areas where it can seep into groundwater. Do not discharge service-related fluids onsite. This is prohibited.
- ✓ Store cracked batteries in a covered secondary containment area until they can be disposed of properly.
- ✓ Store materials and waste off the ground and away from places where they will be exposed to rainwater

****Hazmat Emergency Number: 410-638-3529****



Harford County
Office of Watershed Protection and Restoration
212 South Bond Street
Bel Air, Maryland 21014



Please report any illicit discharges to Harford County DPW at 410.638.3400 at any time of day. For more information, email Danielle Hankins at dhankins@harfordcountymd.gov or call her at 410-638-3217.

Harford County Stormwater Pollution Prevention



VEHICLE MAINTENANCE & REPAIR



Drip Pan



Dry Absorbents

Pollution Prevention Techniques for Vehicle Maintenance and Repair

- ✓ Avoid hosing down work areas. Instead, clean with dry methods like shop vacuums. Do not vacuum flammable liquids. Sweep or vacuum work area daily. Keep spill clean-up kits readily accessible at all work areas.
- ✓ Clean all spills immediately using dry cleaning techniques and absorbents such as sand, cat litter, rags, or oil dry. Sweep and properly dispose of dry material. Use drain mats to cover drains in the event of a spill. Immediately report any spills which have entered the storm drain system to Harford County DPW.
- ✓ Inspect the condition of all vehicles and equipment stored outdoors frequently. Capture and clean up any leaks.
- ✓ Use a tarp, ground cloth, or drip pans beneath vehicles or equipment being repaired outdoors to capture all spills.
- ✓ Wash parts in a self-contained solvent sink rather than outdoors.
- ✓ Conduct regular training for staff on good housekeeping practices
- ✓ Perform vehicle painting only in approved enclosed areas with vacuum hoods and filters

****Hazmat Emergency Number: 410-638-3529****



Harford County
Office of Watershed Protection and Restoration
212 South Bond Street
Bel Air, Maryland 21014



Please report any illicit discharges to Harford County DPW at 410.638.3400 at any time of day. For more information, email Danielle Hankins at dhankins@harfordcountymd.gov or call her at 410-638-3217.



PARKING LOTS AND VEHICLE STORAGE

Parking lots and vehicle storage areas can introduce sediment, metals, oil and grease, and trash into stormwater runoff. Simple good housekeeping practices including pavement sweeping, litter control, spill prevention and proper clean up, and stormwater treatment practices can minimize pollutant export from these hotspots. The largest, most heavily used parking lots with vehicles in the poorest conditions have the highest potential for pollution.



Oil Spill



Trash and Debris

Pollution Prevention Techniques for Parking Lots and Vehicle Storage Areas

- ✓ Post signs to control litter and prevent patrons from changing automobile fluids in the parking lot.
- ✓ Do not store wrecked vehicles on lots unless runoff containment and treatment are provided. Place large drip pans under wrecked cars until all fluids are drained; do not allow drip pans to overflow
- ✓ Walk the property monthly to find and fix leaks and to clear any debris from storm drains.
- ✓ Inspect storm drain catch basins twice a year and remove accumulated sediments as needed.
- ✓ Direct runoff water to bioretention areas, vegetated swales, or sand filters (BMPs).
- ✓ Do not allow rooftop gutter drains to discharge to paved surfaces.
- ✓ Monitor parked vehicles and equipment and place drip pans under leaks to collect fluids for proper disposal into labeled sealed containers.

****Hazmat Emergency Number: 410-638-3529****



Harford County Stormwater Pollution Prevention



PARKING LOTS AND VEHICLE STORAGE



Emergency Spill Kit



Sweeper Truck

Pollution Prevention Techniques for Parking Lots and Vehicle Storage Areas

- ✓ Vacuum or sweep parking lot monthly.
- ✓ Stabilize unpaved lots.
- ✓ Train employees on spill prevention and good housekeeping practices.
- ✓ Pick up litter, cigarette butts, and packaging waste daily and provide trash receptacles to discourage littering.
- ✓ Stencil or mark storm drain inlets with "No Dumping, Drains to Chesapeake Bay" message.
- ✓ Have an emergency spill kit on hand.
- ✓ Properly clean up any spills by:
 - Using dry methods such as cat litter, sand, rags, or oil dry
 - Using drain mats to cover drains in the event of a spill
 - Promptly and properly dispose of collected fluids into secondary containment vessels
 - **Immediately report any spills which have entered the street, gutter, or storm drain system to Harford County HAZMAT 410-638-3529**



**HARFORD COUNTY ILLICIT
DISCHARGE MONITORING PROGRAM:
SITE SELECTION, SCREENING, AND
QUALITY ASSURANCE PROTOCOLS**

Prepared for

Harford County
Department of Public Works
Division of Highways and Water Resources
212 South Bond Street, 3rd Floor
Bel Air, Maryland 21014

Prepared by

Ryan Corbin
Thomas S. Jones, Jr.
Allison Brindley

Versar, Inc.
9200 Rumsey Road, Suite 1
Columbia, MD 21045



Revised, December 14, 2023



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1.0 INTRODUCTION

Under Maryland's National Pollutant Discharge Elimination System (NPDES) permit program, counties are required to implement plans to detect, isolate, and eliminate improper discharges to the municipal separate storm sewer system (MS4). Improper discharges to the MS4 are those un-permitted discharges that do not originate as stormwater runoff. Improper discharges can be hazardous to public health, harmful to aquatic life in receiving waters, and detrimental to water quality. Improper connections or discharges to the MS4 may be the result of misconnection of a portion of the sanitary sewer system to the storm sewer system, failure of sewer infrastructure allowing infiltration of public drinking water or sanitary sewer effluent into the storm sewer system, inadvertent or deliberate discharges of prohibited effluent to the MS4, or other causes.

Federal regulation defines an illicit discharge as any discharge to an MS4 that is not composed entirely of stormwater, except allowable discharges pursuant to an NPDES permit, including those resulting from firefighting activities. Recent guidance prepared for EPA by the Center for Watershed Protection (Brown et al. 2004) provides further explanation, noting that illicit discharges are found at storm drains with measurable flow during dry weather containing pollutants and/or pathogens. Dry weather discharges (as described by Brown et al. 2004) can include illicit types, such as the following:

- sewage and septic flows;
- washwater flows, such as residential gray water (laundry) discharges, water from commercial car washes, fleet washing, commercial laundries, and floor washing to shop drains; and
- liquid wastes such as oil, paint, and process water that enter the storm drain system

Dry weather flows can also be associated with cleaner discharges that would typically not be considered illicit:

- tap water, from leaks and losses from a water supply system;
- landscape irrigation, when excess clean water from residential or commercial irrigation flows into the storm drain system; and
- groundwater or spring water entering the MS4.

Harford County conducts dry weather screening on outfalls within its jurisdiction and are reported annually as a part of the County's NPDES Annual Report submission.

The County's Division of Highways and Water Resources (within the Department of Public Works) is responsible for NPDES monitoring and reporting on IDDE efforts. This response, site screening, and reporting protocol document will serve as the field operations and data management manual for the NPDES dry weather screening program. The recommended protocol presented in this document is based on EPA's IDDE guidance (Brown et al. 2004). This dry weather screening program is part of an overall approach for compliance with NPDES

requirements to (1) identify MS4 outfalls in the county; (2) screen MS4 outfalls for dry weather discharge, the presence of pollutants, or other visible signs of an illicit discharge or connection; and (3) refer the illicit discharge or connection to the appropriate County or State agency for correction. Dry weather screening will be performed on 100 County MS4 outfalls that are pre-selected during desktop analysis. Other outfalls that are encountered during dry weather screening activities will count toward the overall tally of 100 screened outfalls. Suspected illicit discharges or connections that require further investigation will be referred to Maryland Department of the Environment (MDE) for track down and source determination.

2.0 SITE SELECTION

Harford County has completed a desktop analysis of illicit discharge potential based on criteria described in Brown et al. (2004). Normalized illicit discharge potential (IDP) scores were determined for all georeferenced outfalls in the County. The IDP scores were divided into three categories:

- 1) Low IDP Risk - 1.0 to 1.66
- 2) Medium IDP Risk- 1.67 to 2.33
- 3) High IDP Risk- 2.34 to 3.00

At present, no outfalls within the County's jurisdiction fall within the high IDP risk category.

From the prioritized outfall data, 100 outfalls were selected for field screening. The target outfalls satisfy the following criteria:

- Include 75% of the outfalls from the medium IDP risk class
- Include 25% of the outfalls from the low IDP risk class
- Include only outfalls coded in the GIS as system (SYS) or culvert with attached storm drain (C2) outfalls; exclude culverts (C1)
- Exclude outfalls that lie within the boundaries of the following incorporated municipalities: The Town of Bel Air, City of Havre de Grace, and City of Aberdeen.
- Exclude outfalls that are under the jurisdiction of the State Highway Administration (MS4). These outfalls will be found on or connected to state or federal highways.
- Include 20% of previously inspected outfalls (15% from medium IDP risk class and 5% from low IDP risk class).
- Prioritize sites from highest to lowest IDP score.

A list of targeted outfalls will be provided to Harford County for approval prior to the initiation of field screening. During screening, if an outfall is encountered in the field that is not included in the list and has not been previously screened, screen the outfall and it will count toward the overall total of 100 outfalls.

3.0 COUNTY NOTIFICATION PROCEDURES

3.1 INTRODUCTION

In order to efficiently and effectively identify, document, respond to, and resolve cases of illicit discharges, appropriate staff of Harford County's Department of Public Works will be notified immediately, from the field, if screening results indicate the outfall has a "high potential" for illicit connection or in the best judgment of field screening staff. The order of contact will be as follows:

1. Michele Dobson
(410) 638-3217 ext. 1247 (work)
mgdobson@harfordcountymd.gov
2. Elizabeth Collins
(410) 322-7783 (personal cell)
bacollins@harfordcountymd.gov

Additionally, a follow-up e-mail to Michele Dobson will be prepared at the end of the field day to summarize field findings on each day that a "high potential" illicit discharge is noted.

"High potential" illicit connections will be identified as follows, when possible:

- internal plumbing connection (i.e., washing machine or garage drain connected to storm sewer system lateral)
- sanitary sewer (lateral from a building connected to the MS4)
- infrastructure failure (e.g., collapsed sewer line discharging into the MS4)
- indirect transitory discharge resulting from leaks, spills, or overflows.

The procedure for contacting the County to report a confirmed illicit connection is further illustrated in Section 4.

4.0 FIELD PROTOCOL

4.1 BACKGROUND

Dry weather MS4 screening programs typically involve monitoring both physical and chemical characteristics of dry weather flows. The Center for Watershed Protection (CWP, Zielinski and Brown no date) surveyed 21 jurisdictions nationwide and identified many commonly used physical and chemical parameters (Appendix A, Table A-1) that may indicate illicit discharges to a stormwater system. MS4 outfalls are inspected for visible evidence of dry weather flow. Physical indicators of a potentially improper discharge often are evident even when flow is not present; such indicators include outfall damage, deposits or stains, and algal growth in pipes. Physical indicators evident with flow include odor, color, turbidity, and the presence of floating material such as oil, sewage, or suds (Brown *et al.* 2004). If flowing water is present at an outfall during dry weather, the quality of the flowing water is assessed in the field. Water quality testing for possible pollutants and characteristics such as pH, temperature, and turbidity provides on-the-spot information to help distinguish between improper discharges and other possible sources of dry weather flow, such as groundwater infiltration. CWP discussed several analytes that can serve as useful indicators of improper discharges in residential and industrial areas (Brown *et al.* 2004). A similar list of analytes commonly used to screen stormwater outfalls, along with comments on the utility of each (NEIWPCC 2003) is included in Appendix A, Table A-1.

The following field protocol and recommended components were developed after reviewing guidance developed for the U.S. Environmental Protection Agency (EPA) by CWP (Brown *et al.* 2004) and from Harford County program requirements:

- Inspect the selected outfalls for physical evidence of dry weather flow.
- If flowing water is present, perform water chemistry tests in the field. Perform cursory track down of source of flowing water.
- Weather permitting, re-inspect and test all outfalls exhibiting flow 4-24 hours after the initial screening if feasible.

A flow chart illustrating field screening, retest, track down, and reporting procedures is presented in Figure 4-1. Field procedures for dry weather screening as well as health and safety procedures common to all components, are described in Sections 4.3 and 4.4.

4.2 SELECTED ANALYTES

Table 4-1 shows the selected analytes and their ability to aid in detecting various kinds of discharges. Selection was based primarily on information provided in Brown *et al.* (2004) and County requirements.

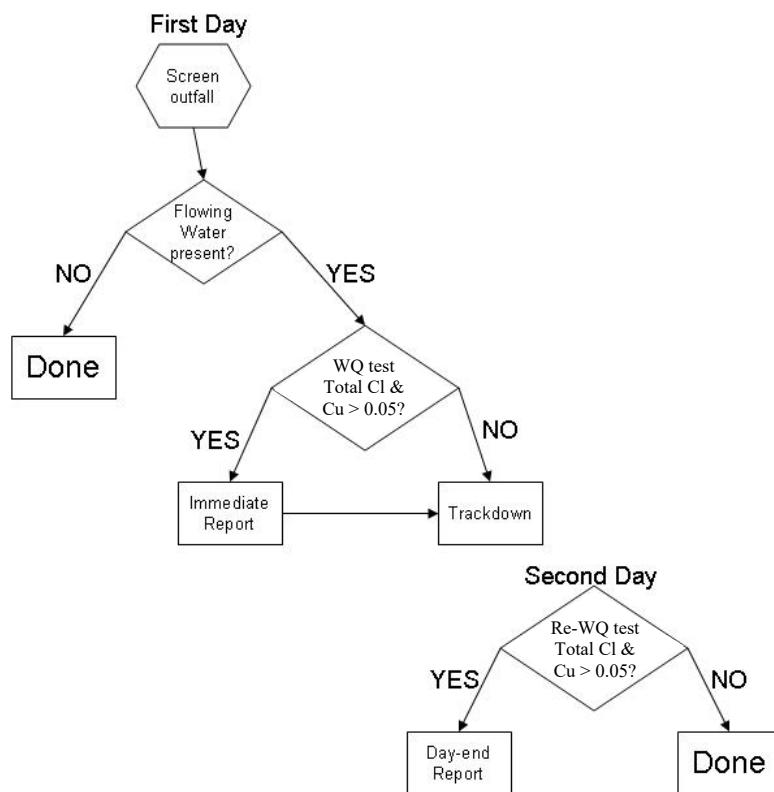


Figure 4-1. Flow chart illustrating diagnostic values of water chemistry results, reporting, and tracking down “high potential” illicit discharges.

Table 4-1. Analytes, testing ranges, and criteria for dry weather discharge screening in Harford County.					
Recommended Analyte	Effluent Type Indicated	Kit or Probe	Action Criterion	Minimum Detection Limit	Instrument Range
total chlorine (Cl)	industrial drinking water sewage	color comparator	$\geq 0.4 \text{ mg/l}$	0.4 mg/l	0 to 5 mg/l
copper (Cu)	industrial	color comparator	$> 0.05 \text{ mg/l}^b$	0.05 mg/l	0 to 10 mg/l
phenols	dry cleaning	color comparator	$> 0.05 \text{ mg/l}^b$	0.05 mg/l	0 to 12 mg/l
turbidity	industrial sewage washwater	sonde	$\geq 1000 \text{ NTU}^a$	0 NTU	

Table 4-1. (Continued)

Recommended Analyte	Effluent Type Indicated	Kit or Probe	Action Criterion	Minimum Detection Limit	Instrument Range
surfactants (detergents)	sewage washwater	single analyte meter	> 0.25 mg/l (residential) ^a	0.15 mg/l	0.15 to 1
DO	sewage	sonde			
water temperature	sewage	sonde	> 23.9 C ^c		
pH	Industrial washwater	sonde	≤ 5 (industrial) ^a		0 to 14
conductivity	industrial	sonde	> 2 mS/cm ² (industrial) ^a		

^a Brown *et al.* 2004
^b Exceedance criterion based on the test range of the field kit
^c Source: Baltimore County (2007)

Results of screening tests will be compared to the criteria presented in Table 4-1 to assist in identifying the possible source of a suspected improper discharge or illicit connection.

Detectable concentrations of one or more analytes can be used to classify an illicit discharge. For example, the presence of chlorine can indicate either tap water leaking from a broken supply pipe or sewage. Source tracking and subsequent analyses can be used to classify the discharge. The presence of total chlorine and copper, low turbidity, but no odor can be used to classify the discharge as tap water. The presence of detergent, copper, and total chlorine can be used to classify the discharge as wash water. Discharges with no total chlorine, low conductivity and turbidity can be used to classify the discharge as groundwater infiltration.

Samples that exceeded the thresholds for a) both total chlorine and copper or b) detergents are considered to have “high potential” to contain illicit discharge. Samples exceeding a single threshold of chlorine or copper were considered to have “medium potential” to contain illicit discharge, and samples with a single parameter other than chlorine, copper, or detergents exceeding the threshold were considered to have some potential to be illicit discharge.

4.3 DRY WEATHER SCREENING

Initial dry weather screening activities include assessing the physical characteristics of the outfall and any discharge and performing screening chemistry tests on the discharge (if present). Optimal conditions for field screening are during dry and leaf-off periods. Field screening will not proceed unless there has been less than 0.10 inches of rainfall in the preceding 72 hours (MDE 1997). Field crews will verify that this dry-time criterion has been met before beginning field operations. Leaf-off conditions usually begin in October, depending on yearly temperature and rainfall patterns. The field staff will obtain and gather the materials listed in

Appendix C prior to field work on any given day. Standard operating procedures for use, calibration, maintenance, and quality control for all field equipment are provided in Appendix D.

To facilitate data collection and information management, data relevant to each outfall survey will be captured electronically in the field using a data entry form that was designed with the ArcGIS Survey123 program specifically for this effort by contractors with Harford County (EA Engineering, Science, and Technology, Inc. [EA]). The field teams will access the form and update the records with a hand-held tablet computer. The data entry form is configured to display prompts that guide the user to select from a set of valid codes and prevent the user from leaving key data fields blank. The information entered in the form is stored as electronic data in a geodatabase. In case of instrument failure, data will be recorded on pre-printed field data sheets (Appendix E). Datasheets developed by Harford County's IDDE program were used as the basis for the electronic field datasheets. Field crews will use this data entry form to record on-site information for each outfall using a series of text boxes, drop down menus, and check boxes. Information collected at each site will be stored in a GIS database for subsequent organization and reporting.

When using the Global Position System (GPS) unit, it is important to note that satellite coverage may be limited when in close proximity to buildings, sizable headwalls, or copious leafy tree cover.

The following screening information will be entered onto field data sheets:

1. **Background Data:** Record date, physical location, GPS location, investigators, land use information and other background data.
2. **Outfall Description:** Enter information describing the outfall, including closed pipe or open channel, physical dimensions, shape, orientation, material type, etc. Indicate if water is flowing from the outfall and describe (e.g., yes, no, intermittent, stagnant).
3. **Quantitative Characterization:** If flowing water is observed, perform water chemistry tests as described in Appendix D-1.
4. **Physical Indicators for Flowing Outfalls Only:** Collect information on physical features of flowing outfalls (e.g., odor, color, turbidity, floating materials).
5. **Physical Indicators for Flowing and Dry Outfalls:** Collect information on physical features of both flowing and dry outfalls. Examine outfall for presence and type of algae, abnormal vegetation, damage, stains, and condition of plunge pool (if any). Structural problems (e.g., cracking, holes in corrugated metal pipes) should also be noted.
6. **Overall Outfall Characterization and Illicit Discharge Potential:** Select the appropriate rating based on information described above.

4.4 RETESTING WATER CHEMISTRY

The purpose of retesting is to verify that that a suspected improper discharge is a persistent problem and that analytical results of a one-time water chemistry test are not random out-of-bounds effluent conditions or technician error. The field crew will retest all field parameters (Table 4-1) if an outfall contains flowing water. Retesting will be conducted between 4 hours and 24 hours of the original test, when practical.

The retesting results will be entered into the handheld GPS unit by creating a duplicate screening record using the “add point” feature in ArcPad.

4.5 TRACKING DOWN THE SOURCE OF AN IMPROPER DISCHARGE

If flowing water is encountered in a targeted outfall, track the source of the discharge by observing flows, testing upstream, consulting maps to identify potential sources. The goal is to determine either the source of the discharge or the segment of probable origin (i.e., the segment between the last positive and the first negative test result moving upstream of the original outfall). Field staff should not spend more than ½ hour on a trackdown.

Track down the probable illicit discharge by moving up the trunk of the storm drain network from the initial outfall, looking for an illicit connection or other visible source of the improper discharge. Inspect each site (junction, manhole, etc.) upstream and test the effluent (if present) at manholes or outfalls until results show no further evidence of the improper discharge. The goal is to isolate the discharge between two test points.

In many cases the improper discharge may be traced by observing the presence of water in manholes through air vents in manhole covers. If these holes are obstructed or other conditions prevent observation through the holes, the manhole cover may be removed. Field personnel typically should not need to enter manholes to detect and sample effluent. If access into manholes is needed, a member of the field crew who is certified in confined spaces entry will perform the task. For reasons of safety, only appropriately trained and certified field personnel may enter outfalls or the storm water distribution system. In the event that sampling below grade is necessary, lower an extender pole with plastic pitcher into the manhole to sample the discharge. The field protocols will be modified based on existing field conditions and successes and challenges encountered during field work. Results of the track-down effort will be communicated to Harford County following the procedures outlined in Section 3.1.

4.6 HEALTH AND SAFETY

Ensuring the health and safety of field personnel is the responsibility of every member of the staff of the program. The collective effort of all staff members in providing a healthy and safe

work environment will minimize or eliminate the potential for accidents. In general, the following safety protocol will be followed to protect the field staff:

1. Bring cell phone and first aid kit on all field site visits.
2. Exercise caution when encountering ants, snakes, raccoons, geese, mice, and the like.
3. Many outfalls are located in remote areas that may be near gathering places for homeless or transient individuals. Do not enter a potentially hostile area.
4. Use common sense during electrical storms and/or when severe conditions (e.g., high wind, hail) develop. The safety of field staff overrides all other considerations.
5. Perform field work in teams of two whenever possible. No staff should be on-site between 12 a.m. and 6 a.m.
6. Storm sewer outfalls contain a variety of waterborne bacteria and other harmful chemicals. Wash hands or use antibacterial wipes or hand gels liberally, especially prior to lunch breaks, etc.
7. Any work in confined spaces will be performed by technicians who are appropriately trained and certified for such work.

Additional information on health and safety may be found in Appendix F, including information on field staff conduct, personal protective equipment, confined space entry, dangerous flora and fauna, unknown hazardous substances and wastes, bloodborne pathogens, remote areas, hand tool safety, weather-related hazards, and heat and cold stress.

5.0 DATA MANAGEMENT/QUALITY CONTROL

The completed data set and geodatabase will document Harford County's compliance with the NPDES permit requirements for annual dry weather screening. The fields in the data set include those required for the IDDE table of the MDE geodatabase; each year, Harford County develops and delivers the entire MDE-compliant NPDES MS4 geodatabase relevant to the reporting year to the State of Maryland to comply with the permit. The data entry form might also include additional fields and instructions for the field teams to collect information requested by Harford County for its own purposes. If the hand-held unit fails, field crews will complete hardcopy field datasheets (Appendix E) in the field. The electronic data collection process is intended to increase the pace and accuracy of data collection and eliminate the need for post-field data entry; ideally, the electronic format would save time and prevent data entry errors, compared to the method of collecting data on hardcopy sheets.

At the conclusion of each field day, data recorded on the handheld unit will be uploaded to a Harford County ArcGIS Online server. This upload will occur daily to weekly, depending on connectivity to the internet, and will lessen the chances of losing data due to theft, breakage, loss, or other failure of the handheld computer. If hardcopy field data sheets have been used, data sheets will be stored in a secure location at Versar's Columbia office at the end of each field day; these data sheets will also be scanned and saved to Versar's server, which is backed-up daily to prevent data loss. Technicians at the office will later enter the data into the electronic geodatabase via the ArcGIS Online server. The list of outfall sites visited will be checked periodically against the target list of outfalls to be screened to be sure that none have been missed and no data have been lost.

Track downs associated with tracing the source of potential illicit discharges are completed electronically by field staff by taking a screenshot of the up-system network and adding notes with observed flow direction and sources; these track downs are saved with the field screening data and stored on the ArcGIS Online server with the field data when uploads are completed. In the event of equipment failure in the field, a separate field data sheet will be used to record data related to tracking down the source of an improper discharge (Appendix E). Copies of these field data sheets will be stored in a secure location at Versar's Columbia office at the end of each field day and scanned to Versar's server along with the hardcopy screening data sheets.

The draft data set will be stored as a geodatabase within the ArcGIS Online system maintained as part of Harford County's online Web-based system. A qualified data quality reviewer with Versar will review each record for accuracy, consistency, and compliance with the requirements for the IDDE table of the MDE geodatabase and any pre-defined constraints on data collected exclusively for Harford County. The reviewer will document where and how each inconsistency or error needs to be changed to be an acceptable element for a draft final version of the data set. The reviewer will submit the results of the quality control review to Harford County's subcontractor, EA. Staff with EA will first archive the draft data set and then implement the changes recommended by Versar's reviewer. The resulting draft final data set will

be stored with Harford County's Web-based system and satisfy the deliverable that accompanies the draft annual summary report on dry weather screening activities (Section 6.0). Staff with Harford County will review the draft data set and clarify where and how input needs to be changed. Staff with EA will implement the changes recommended by Harford County staff. The resulting final data set will be stored with Harford County's Web-based system and satisfy the deliverable that accompanies the final annual summary report on dry weather screening activities (Section 6.0).

6.0 ANNUAL SUMMARY REPORT

Included with the annual summary report on dry weather screening will be a summary of results of outfall screening, including a brief description of targeted areas; number of outfalls screened; number of sites visited; number of outfalls that exhibited dry weather flow; number of outfalls that met one or more water chemistry criteria for an improper discharge; and number and location of outfalls that warranted notification of Harford County DPW staff.

The report will be accompanied by an MS Access database to organize field screening data. The structure of the database will be consistent with the County's current outfall screening databases, with some added fields, and will be useful for reporting to MDE with the NPDES Annual Report.

7.0 REFERENCES

Baltimore County. 2007. National Pollutant Discharge Elimination System (NPDES) Annual Report. Section 5 - Illicit Connections Program. Baltimore County, Maryland.

Brown, E., D. Caraco, and R. Pitt. 2004. Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments. Center for Watershed Protection, Ellicott City, MD. October.

EA Engineering, Science, and Technology, Inc. 2023. IDDE Configuration Technical Memorandum. Version 1.4. June.

Maryland Department of the Environment (MDE). 1997. Dry Weather Flow and Illicit Discharges in Maryland Storm Drain Systems. Water Management Administration. October.

New England Interstate Water Pollution Control Commission (NEIWPCC). 2003. Illicit Discharge Detection and Elimination Manual: A Handbook for Municipalities. Lowell, Massachusetts. January. http://www.neiwpcc.org/PDF_Docs/iddmanual.pdf.

Pitt, R., M. Lalor, R. Field, D. Adrian, and D. Barbé. 1993. A User's Guide for the Assessment of Non-Stormwater Dischargers into Separate Storm Drainage Systems. EPA/600-R-92-238. Risk Reduction Engineering Laboratory, U.S.EPA. Cincinnati, OH.

Van der Leeden, F., F. Troise, and D. Todd. 1990. The Water Encyclopedia. Lewis Publishers, Chelsea, Michigan.

Wright, T., C. Swann, K. Cappiella, and T. Schueler. 2005. Unified Subwatershed and Site Reconnaissance: A User's Manual, Version 2.0. Center for Watershed Protection, Ellicott City, MD. February.

APPENDIX A

PERTINENT INFORMATION FROM LITERATURE SEARCHES

Table A-1. Analytes commonly used to screen outfalls (NEIWPCC 2003)

TABLE 1 WATER QUALITY TEST PARAMETERS AND USES		
Water Quality Test	Use of Water Quality Test	Comments
Conductivity	Used as an indicator of dissolved solids	<ul style="list-style-type: none"> - Pitt et al. 1993 suggested parameter; EPA Phase II regulations recommended parameter - Typically measured in the field with a probe
Ammonia	High levels can be an indicator of the presence of sanitary wastewater	<ul style="list-style-type: none"> - Pitt et al. 1993 suggested parameter; EPA Phase II regulations recommended parameter - Used very often and equipment is readily available; Boston, MA uses a field test kit (see case example)
Surfactants	Indicate the presence of detergent (e.g., laundry, car washing)	<ul style="list-style-type: none"> - Pitt et al. 1993 suggested parameter; EPA Phase II regulations recommended parameter - Boston, MA uses a field test kit (see case example)
pH	Extreme pH values (low or high) may indicate commercial or industrial flows; not useful in determining the presence of sanitary wastewater (which, like uncontaminated baseflows, tends to have a neutral pH, i.e., close to 7)	<ul style="list-style-type: none"> - Pitt et al. 1993 suggested parameter; EPA Phase II regulations recommended parameter - Typically measured in the field or lab with a probe
Temperature	Sanitary wastewater and industrial cooling water can substantially influence outfall discharge temperatures. This measurement is most useful during cold weather.	<ul style="list-style-type: none"> - Pitt et al. 1993 suggested parameter - Measured in the field with a thermometer or probe
Hardness	Used to distinguish between natural and treated waters	- Pitt et al. 1993 suggested parameter
Total Chlorine	Used to indicate inflow from potable water sources; not a good indicator of sanitary wastewater because chlorine will not exist in a "free" state in water for long (it will combine with organic compounds)	- Pitt et al. 1993 suggested parameter
Fluoride	Used to indicate potable water sources in areas where water supplies are fluoridated	- Pitt et al. 1993 suggested parameter
Potassium	High levels may indicate the presence of sanitary wastewater	- Pitt et al. 1993 suggested parameter
Optical Brighteners (Fluorescence)	Used to indicate presence of laundry detergents (which often contain fabric whiteners, which cause substantial fluorescence)	<ul style="list-style-type: none"> - Pitt et al. 1993 suggested parameter - Used by City of Winooski, VT (see case example)
Bacteria (fecal coliform, <i>E. coli</i>, and/or <i>enterococci</i>)	Used to indicate the presence of sanitary wastewater	- Used by NHDES (see case example in chapter 5)

APPENDIX B

CHARACTERISTICS OF INDUSTRIAL DISCHARGES

Table B-1. Chemical and physical properties of industrial non-stormwater entries into storm drainage systems (Pitt *et al.* 1993)

Industrial Categories Major Classifications SIC Group Numbers	Odor	Color	Turbidity	Floatables	Debris & Stains	Damage to Outfall Structures		Vegetation	pH	Total Dissolved Solids
Primary Industries										
20 Food and Kindred Products										
201 Meat Products	Spoiled Meats Rotten Eggs and Flesh	Brown to Reddish Brown	High	Animal Fats, Byproducts Pieces of Processed Meats	Brown Black	to	High	Flourish	Normal	High
202 Dairy Products	Spoiled Milk Rancid Butter	Gray to White	High	Animal Fats Spoiled Milk Products	Gray to Light Brown	Brown	High	Flourish	Acidic	High
203 Canned & Preserved Fruits & Vegetables	Decaying Products Compost Pile	Various	High	Vegetable Waxes, Seeds, Skins, Cores, Leaves	Light Brown	Low	Normal	Wide Range	High	High
204 Grain Mill Products	Slightly Sweet & Musty Grainy	Brown to Reddish Brown	High	Grain Hulls and Skins Straw & Plant Fragments	Light Brown	Low	Normal	Normal	Normal	High
205 Bakery Products	Sweet and or Spoiled	Brown to Black	High	Cooking Oils, Lard, Flour, Sugar	Gray to Light Brown	Low	Normal	Normal	Normal	High
206 Sugar and Confectionery Products	NA	NA	Low	Low Potential	White Crystals	Low	Normal	Normal	Normal	High
207 Fats and Oils	Spoiled Meats, Lard or Grease	Brown to Black	High	Animal Fats, Lard	Gray to Light Brown	Low	Normal	Normal	Normal	High
208 Beverages	Flat Soda, Beer or Wine, Alcohol, Yeast	Various	Moderate	Grains & Hops, Broken Glass, Discarded Canning Items	Light Brown	High	Inhibited	Wide Range	High	High
21 Tobacco Manufactures	Dried Tobacco, Cigars, Cigarettes	Brown to Black	Low	Tobacco Leaves Papers and Fillers	& Brown	Low	Normal	Normal	Normal	Low
22 Textile Mill Products	Wet Burlap, Bleach, Soap, Detergents	Various	High	Fibers, Oils, Grease	Gray to Black	Low	Inhibited	Basic	High	High
23 Apparel and Other Finished Products	NA	Various	Low	Some Fabric Particles	NA	Low	Normal	Normal	Normal	Low
Material Manufacture										
24 Lumber & Wood Products	NA	NA	Low	Some Sawdust	Light Brown	Low	Normal	Normal	Normal	Low
25 Furniture & Fixtures	Various	Various	Low	Some Sawdust, Solvents	Light Brown	Low	Normal	Normal	Normal	Low
26 Paper & Allied Products	Bleach, Various Chemicals	Various	Moderate	Sawdust, Pulp Paper Waxes, Oils	Light Brown	Low	Normal	Normal	Wide Range	Low
27 Printing, Publishing, and Allied Industries	Ink, Solvents	Brown to Black	Moderate	Paper Dust, Solvents	Gray to Light Brown	Low	Inhibited	Normal	High	High
31 Leather & Leather Products	Leather, Bleach Rotten Eggs or Flesh	Various	High	Animal Flesh & Hair Oils & Grease	Gray to Black	High	Highly Inhibited	Wide Range	High	High
33 Primary Metal Industries	Various	Brown to Black	Moderate	Ore, Coke, Limestone Mica, Oils	Salt Crystals	High	Inhibited	Acidic	High	High
34 Fabricated Metal Products	Detergents, Rotten Eggs	Brown to Black	High	Dirt, Grease, Oils Sand, Clay Dust	Gray to Black	Low	Inhibited	Wide Range	High	High
32 Stone, Clay, Glass, and Concrete Products	Wet Clay, Mud Detergents	Brown to Reddish-Brown	Moderate	Glass Particles Dust from Clay or Stone	Gray to Light Brown	Low	Normal	Basic	Low	(continued)

(continued)

Table B-1. (Continued)

Industrial Categories Major Classifications SIC Group Numbers	Odor	Color	Turbidity	Floatables	Debris & Stains	Damage to Outfall Structures	Vegetation	pH	Total Dissolved Solids
<i>Chemical Manufacture</i>									
28 Chemicals & Allied Products									
281 Alkalies and Chlorine	Strong Halogen or Chlorine Pungent, Burning	Alkalies - NA Chlorine - Yellow to Green Various	Moderate	Glass Particles Dust from Clay or Stone	Gray to Light Brown	Highly Inhibited	Normal	Basic	Low
281 Inorganic Pigments	NA	High	Low Potential	Various	Low	Highly Inhibited	Wide Range	High	
282 Plastic Materials and Synthetics	Pungent, Fishy	Various	High	Plastic Fragments, Pieces of Synthetic Products	Various	Low	Inhibited	Wide Range	High
283 Drugs	NA	Various	High	Galatin Byproducts for Capsulating Drugs Oils, Grease	Various	Low	Highly Inhibited	Normal	High
284 Soap, Detergents, & Cleaning Preparations	Sweet or Flowery	Various	High	Latex - NA SB-Dependent upon Solvent (Paint Thinner, Mineral Spirits)	Gray to Black	Low	Inhibited	Basic	High
285 Paints, Varnishes, Lacquers, Enamels and Allied Products (SB-Solvent Base)	Latex- Ammonia SB-Dependent upon Solvent (Paint Thinner, Mineral Spirits)	Various	High	Latex - NA SB-All Solvents	Gray to Black	Low	Inhibited	Latex- Basic SB- Normal	High
286 Industrial Organic Chemicals									
286 Gum and Wood Chemicals	Pine Spirits	Brown to Black	High	Resins and Pine Tars	Gray to Black	Low	Inhibited	Acidic	High
286 Cyclic Crudes, & Cyclic Intermediates, Dyes, & Organic Pigments	Sweet Organic Smell	NA	Low	Translucent Sheen	NA	Low	Highly Inhibited	Normal	Low
287 Agricultural Chemicals									
287 Nitrogenous Fertilizers	NA	NA	Low	NA	White Crystalline Powder	High	Inhibited	Acidic	High
287 Phosphatic Fertilizers	Pungent Sweet	Milky White	High	NA	White Emorphous Powder	High	Inhibited	Acidic	High
287 Fertilizers, Mixing Only	Various	Brown to Black	High	Pelletized Fertilizers	Brown Emorphous Powder	Low	Normal	Normal	High
29 Petroleux Refining and Related Industries									
291 Petroleum Refining	Rotten Eggs Kerosene, Gasoline	Brown to Black	High	Any Crude or Processed Fuel	Black Salt Crystals	Low	Inhibited	Wide Range	High
30 Rubber & Miscellaneous Plastic Products	Rotten Eggs Chlorine, Peroxide	Brown to Black	Moderate	Shredded Rubber Pieces of Fabric or Metal	Gray to Black	Low	Inhibited	Wide Range	High

(continued)

Table B-1. (Continued)

Industrial Categories Major Classifications SIC Group Numbers	Odor	Color	Turbidity	Floatables	Debris & Stains	Damage to Outfall Structures	Vegetation	pH	Total Dissolved Solids
Transportation & Construction									
15 Building Construction	Various	Brown to Black	High	Oils, Grease, Fuels	Gray to Black	Low	Normal	Normal	High
16 Heavy Construction	Various	Brown to Black	High	Oils, Grease, Fuels Diluted Asphalt Cement	Gray to Black or	Low	Normal	Normal	High
Retail									
52 Building Materials, Hardware, Garden Supply, and Mobile Home Dealers	NA	Brown to Black	Low	Some Seeds, Plant Parts, Dirt, Sawdust, or Oil	Light Brown	Low	Normal	Normal	Low
53 Gen. Merchandise Stores	NA	NA	NA	NA	NA	Low	Normal	Normal	Low
54 Food Stores	Spoiled Produce Rancid, Sour Oil or Gasoline	Various	Low	Fragments of Food Decaying Produce Oil or Gasoline	Light Brown	Low	Fleish	Normal	Low
55 Automotive Dealers & Gasoline Service Stations	Brown to Black	Moderate		Brown	Low	Inhibited	Normal	Low	
56 Apparel & Accessory Stores	NA	NA	Low	NA	NA	Low	Normal	Normal	Low
57 Home Furniture, Furnishings, & Equipment Stores	NA	NA	Low	NA	NA	Low	Normal	Normal	Low
58 Eating & Drinking Places	Spoiled Foods Oil & Grease	Brown to Black	Low	Spoiled Foods or Leftover	Brown	Low	Normal	Normal	Low
Coal Steam Electric Power	NA	Brown to Black	High	Coal Dust	Black Emorphous Powder	Low	Normal	Slightly Acidic	
Nuclear Steam Electric Power	NA	Light Brown	Low	Oils, Lubricants	Light Brown	Low	Normal	Normal	Low

Table B-2. Significant chemicals in industrial wastewaters (Van der Leeden *et al.* 1990)

<u>Chemical:</u>	<u>Industry:</u>
Acetic acid	Acetate rayon, pickle and beetroot manufacture.
Alkalies	Cotton and straw kiering, cotton manufacture, mercerizing, wool scouring, and laundries.
Ammonia	Gas, coke, and chemical manufacture.
Arsenic	Sheep-dipping, and felt mongering.
Chlorine	Laundries, paper mills, and textile bleaching.
Chromium	Plating, chrome tanning, and aluminum anodizing.
Cadmium	Plating.
Citric acid	Soft drinks and citrus fruit processing.
Copper	Plating, pickling, and rayon manufacture.
Cyanides	Plating, metal cleaning, case-hardening, and gas manufacture.
Fats, oils	Wool scouring, laundries, textiles, and oil refineries.
Fluorides	Gas, coke, and chemical manufacture, fertilizer plants, transistor manufacture, metal refining, ceramic plants, and glass etching.
Formalin	Manufacture of synthetic resins and penicillin.
Hydrocarbons	Petrochemical and rubber factories.
Hydrogen peroxide	Textile bleaching, and rocket motor testing.
Lead	Battery manufacture, lead mining, paint manufacture, and gasoline manufacture.
Mercaptans	Oil refining, and pulp mills.
Mineral acids	Chemical manufacture, mines, Fe and Cu pickling, brewing, textiles, photo-engraving, and battery manufacture.
Nickel	Plating.
Nitro compounds	Explosives and chemical works.
Organic acids	Distilleries and fermentation plants.
Phenols	Gas and coke manufacture, synthetic resin manufacture, textiles, tanneries, tar, chemical, and dye manufacture and sheep-dipping.
Silver	Plating, and photography.
Starch	Food, textile, and wallpaper manufacture.
Sugars	Dairies, foods, sugar refining, and preserves.
Sulfides	Textiles, tanneries, gas manufacture, and rayon manufacture.
Sulfites	Wood process, viscose manufacture, and bleaching.
Tannic acid	Tanning, and sawmills.
Tartaric acid	Dyeing, wine, leather, and chemical manufacture.
Zinc	Galvanizing, plating, viscose manufacture, and rubber process.

APPENDIX C

FIELD EQUIPMENT CHECKLIST

EXAMPLE FIELD EQUIPMENT CHECKLIST

Table C-1. Checklist of field equipment and supplies for dry weather screening

Item	Check-off
ADC map of Harford County	
GPS receiver and tablet computer	
Thermometer	
Spare GPS Batteries	
GPS display car charger cable	
Field data sheets (dry weather screening, trackdown) on waterproof paper	
Pencils	
Measuring tape	
Flashlight	
Insect repellent	
Chest waders	
Knee boots	
Mobile phone in plastic zipper bag	
First-aid kit (including antiseptic ointment, bandages, tape, gauze, analgesics, etc.)	
Outfall water quality screening kit(s) and procedure manuals	
Calibrated sonde and display	
Backpack	
Orange/reflective vests	
Work gloves	
County letter of introduction and right of entry (see example)	
Site Screening Plan	
Digital camera	
Spare batteries for digital camera	
Swing sampler and extender pole	
Polypropylene bottles for sharps/waste	
250-mL plastic cup	
500-mL wash bottle containing distilled water	
Gallon cubitainer (or equivalent) containing distilled water	
Stopwatch	
1-liter plastic bottle	

APPENDIX D

STANDARD OPERATING PROCEDURES FOR DRY WEATHER SCREENING

D-1. Procedures for Setting Up and Recording Data using Survey123 and Tablet Device

Procedures for setting up a tablet device, downloading applications and base files, and recording field data can be found in the guidance document created by EA Engineering, Science, and Technology, Inc. on behalf of Harford County DPW (EA 2023).

D-2. Procedures for Water Chemistry Testing

Water chemistry and water quality measurements of outfall effluent (if present) will be obtained by the use of a single analyte meter (detergents), color comparator kits (copper, chlorine, phenols, and color), and multiparameter sondes, respectively. The single analyte meter and color comparator kits will measure concentrations of targeted, specific analytes that will be used to assess whether a possible illicit discharge exists. The multiparameter sonde measures water quality parameters such as conductivity, pH, DO, turbidity, and temperature as a secondary assessment of illicit discharge potential.

Detergents

1. Rinse red-tipped vile with sample 3 times, then fill to line with sample.
2. While holding ampoule in vertical position, **snap upper tip** using tip-breaking tool.
3. **Invert** ampoule and position open end over open dropper bottle. **Snap upper tip** and allow to drain into dropper bottle.
4. Cap dropper bottle and shake vigorously with thumb on red cap for **30 seconds**.
5. Loosen and re-tighten cap and then allow to stand undisturbed for **1 minute**. Layers should separate.
6. Remove red cap and slowly invert over a clean **test tube**. Squeeze bottle until all of the **clear** chloroform layer is in test tube. Remaining blue liquid should be disposed of and dropper bottle thoroughly cleaned before next sample.
7. Insert ampule with extension suction tube into the vile and gently crack the tip of the ampule against the side. Allow solution at the bottom to fill the ampule.
8. If little or no color developed, put it in the cylinder and hold up to the light, while you look through the bottom to compare. Find your match and look on the side to see what reading you matched up with.
9. If it is actually colored, use the “high range comparator” which is the series of ampoules mounted on the lid. You should not need to remove them, just hold your sample up to the lid.

Phenol

1. Put sample water in the cup up to the 25mL mark.
2. Take out an ampoule from the little blue box. Make sure it has orange crystals on it.

3. Swirl the tip until the crystals dissolve. They don't dissolve completely away, just make sure the orange color is all gone from them.
4. Nestle the tip into one of the notches at the bottom of the cup.
5. Snap the tip by bringing it to an upright position, flat against the inside of the cup above the notch you've nestled in. The vacuum inside of the ampoule will cause sample water to be sucked in.
6. There should be a small bubble still remaining. Turn the ampoule over a few times to make the bubble go from one end to the other, mixing the water inside, at least 3 times.
7. Dry the outside of the ampoule and let it sit for 1 minute.
8. If little or no color developed, put it in the cylinder and hold up to the light, while you look through the bottom to compare. Find your match and look on the side to see what reading you matched up with.
9. If it is actually colored, use the "high range comparator" which is the series of ampoules mounted on the lid. You should not need to remove them, just hold your sample up to the lid.

Total Chlorine

1. Put sample water in the cup up to the 25mL mark.
2. Add 5 drops from the "Activator solution" bottle. Stir with a test ampoule tip (but don't break it yet!) and let it sit for 1 minute.
3. Now continue with step 4 above.

Copper

Identical to total chlorine, except wait 2 minutes for color development

Waste Disposal – Waste containers containing sharps from the field (typically 1-liter polypropylene bottle) will be capped, marked clearly as "glass" and placed in ordinary trash at the office. Waste containers containing liquid waste from screening tests (typically 4-liter glass jugs) will be stored in a secure location at the office until a licensed hauler is contracted to remove them. A written report of the detailed contents of the waste will be provided to the hauler.

Multiparameter Sonde (YSI or equivalent)

This instrument is a torpedo-shaped probe (Figure D-1) equipped with multiple sensors on one end that can be used, with proper calibration, to obtain several accurate water quality parameters simultaneously. (YSI 2002 and YSI 1998a). Quarterly, the metal contacts inside of the conductivity probe are cleaned by using a special cleaning brush provided with the sonde. The pH probe is also cleaned quarterly by gently brushing the sensor bulb with a mild detergent. All are rinsed with tap water after cleaning. DO caps and pH sensors are replaced annually, and conductivity and turbidity sensors are replaced every five years, per manufacturer recommendations. When not in use, the sonde is stored with the calibration cap containing approximately 10 ml of tap water.

Field technicians are trained in the proper care, calibration method, and calibration frequency of each water quality parameter on multi-parameter sondes and tabletop laboratory meters. Each probe on the sonde (except temperature) requires recalibration prior to use. Typically, specific conductance, DO, turbidity, and pH will hold their calibrations satisfactorily over two weeks; therefore, obtaining those measurements within two weeks of the most recent calibration is acceptable. Detailed instruction on calibration of sondes is provided in Appendix D-2. Calibration information for each sonde is maintained in the Sonde Calibration Logbook which is located on the benchtop at the sonde calibration station. Entered into the logbook is manufacturer and model of the sonde, pre-calibration measurement, and post-calibration measurement. Probes that do not calibrate or that do not hold their calibration at post-calibration reading are replaced immediately.

- pH Calibration Standard Solution – When ordering solution, a 20-liter container is obtained to provide sufficient supply for multiple projects. The expiration date for solutions already in use is noted: when the expiration date draws near (i.e., within a month), a new solution is ordered immediately. Responsibility for assuring the availability of adequate quantities of pH solution is the responsibility of the Field Manager. Supplies of pH calibration reagent are ordered from laboratory supply companies that typically ship within a reasonable time.
- Conductivity Calibration Standard Solution – As is the case with pH calibration solution, a sufficient quantity of the conductivity calibration solution is maintained. Restocking occurs when the last 4-liter bottle of reagent is half-empty. In the event



Figure D-1. YSI sonde being calibrated

that the vendor places the solution on backorder, a 1-liter supply of calibration solution can be prepared from solid KCl on hand. Only a chemist or a trained technician will prepare this solution. The Field Manager will be responsible for assuring an adequate supply of this reagent.

D-2. Procedures for Calibrating Water Quality Monitoring Equipment

These procedures cover basic sonde calibration; however, more detailed procedures for calibration, use, and care are provided in the user's manuals. Calibration of water quality sondes for pH, DO, turbidity, and conductivity should be performed at least every two weeks when in use.

Conductivity Sensor Calibration

Bi-weekly calibration of the conductivity sensor follows the steps listed in this sub-section. Staff conduct all conductivity calibrations as one-point calibrations, and use 1412 micro-Siemens per centimeter ($\mu\text{S}/\text{cm}$) reference standard solutions.

1. *Rinse the calibration cup and sensors with tap water.*
2. *Go to the Calibration Menu on the handheld and select conductivity and then specific conductivity.*
3. *Conduct two rinses with reference standard 1412 $\mu\text{S}/\text{cm}$ solution.*
4. *Fill the calibration cup with fresh reference standard 1412 $\mu\text{S}/\text{cm}$ solution.*
5. *Allow the readings to stabilize.*
6. *Ensure that the handheld is calibrating to 1412 $\mu\text{S}/\text{cm}$, and select enter from the calibration menu on the handheld to calibrate. Record the pre- and post-calibration values on the calibration log for 1412 $\mu\text{S}/\text{cm}$ conductivity.*
7. *Rinse the calibration cup and sensors with tap water.*
8. *Calibration is complete. Store the sonde with 1/8 inch of tap water to ensure that the sensors do not dry out.*

pH Sensor Calibration

Bi-weekly calibration of the pH sensor follows the steps listed in this sub-section. Staff conduct all pH calibrations as two-point calibrations, and use reference standard buffer solutions.

1. *Rinse the calibration cup and sensors with tap water.*
2. *Go to the Calibration Menu on the handheld and select pH.*
3. *Conduct two rinses with reference standard buffer solution 7.0 pH.*
4. *Fill the calibration cup with fresh reference standard buffer solution 7.0 pH.*
5. *Allow the readings to stabilize.*
6. *Ensure that the handheld is calibrating to 7.0 pH, and select enter from the calibration menu on the handheld to calibrate for point one. Record the pre- and post-calibration values, as well as the pH millivolts, on the calibration log for 7.0 pH.*
7. *Rinse the calibration cup and sensors with tap water.*
8. *Conduct two rinses with reference standard buffer solution 4.0 pH.*
9. *Fill the calibration cup with fresh reference standard buffer solution 4.0 pH.*
10. *Allow the readings to stabilize.*
11. *Ensure that the handheld is calibrating to 4.0 pH, and select enter from the calibration menu on the handheld to calibrate for point two. Record the pre- and post-calibration values, as well as the pH millivolts, on the calibration log for 4.0 pH.*
12. *Select finish calibration from the calibration menu on the handheld.*
13. *Rinse the calibration cup and sensors with tap water.*
14. *Calibration is complete. Store the sonde with 1/8 inch of tap water to ensure that the sensors do not dry out.*

Dissolved Oxygen Sensor Calibration

Bi-weekly calibration of the dissolved oxygen (DO) sensor follows the steps listed in this sub-section. Staff conduct all DO calibrations as one-point calibrations, and use percent saturations.

1. *Rinse the calibration cup and sensors with tap water.*
2. *Go to the Calibration Menu on the handheld and select dissolved oxygen and then percent saturation. Percent saturation DO calibrations are calculated by the unit based on barometric pressure and ambient temperature at the time of calibration.*
3. *Conduct two rinses with tap water.*
4. *Fill the calibration cup 1/8 inch with tap water.*
5. *Allow the readings to stabilize for 10-15 minutes.*

6. *Ensure that the readings are stable and select enter from the calibration menu. Record the pre- and post-calibration values on the calibration log for DO, as well as the barometric pressure on the calibration log.*
7. *Calibration is complete. Store the sonde with 1/8 inch of tap water to ensure that the sensors do not dry out.*

Turbidity Sensor Calibration

Bi-weekly calibration of the turbidity sensor follows the steps listed in this sub-section. Staff conduct all turbidity calibrations as two-point calibrations, and use reference standard buffer solutions.

1. *Prepare the 100 Nephelometric Turbidity Unit (NTU) calibration solution by adding 25-mL of 4,000 NTU reference standard solution to a 1,000-mL graduated cylinder, and then filling the graduated cylinder to 1,000-mL with deionized (DI) water.*
2. *Place a stirring rod into the graduated cylinder and place on a stir plate to ensure the 100 NTU calibration solution stays well mixed.*
3. *Rinse the calibration cup and sensors with tap water.*
4. *Go to the Calibration Menu on the handheld and select turbidity.*
5. *Conduct two rinses with DI water.*
6. *Fill the calibration cup with DI water.*
7. *Allow the readings to stabilize.*
8. *Enter “0” into the handheld as the Point-1 calibration value, and select “Accept Calibration”.*
9. *Conduct two rinses with 100 NTU calibration solution.*
10. *Fill the calibration cup with 100 NTU calibration solution.*
11. *Allow the readings to stabilize.*
12. *Enter “100” into the handheld as the Point-2 calibration value, and select “Accept Calibration”.*
13. *Select “Finish Calibration” from the calibration menu on the handheld.*
14. *Rinse the calibration cup and sensors with tap water.*

Calibration is complete. Store the sonde with 1/8 inch of tap water to ensure that the sensors do not dry out.

APPENDIX E

DATA SHEETS
FOR DRY WEATHER SCREENING

Harford County IDDE Outfall Survey Sheet

Outfall ID:	MDE North:	Test #: _____
Date:	Crew:	MDE East:
Time:	AM / PM	Found: Yes / No
Date of last rain > 0.1 inches:		Amount of last rain > 0.1 inches (Harford):

Location Description Address: _____

Location Watershed (Harford): _____ (See Reference Sheet)

General Land Use (Harford): Rural / Residential / Urban

MDP Land Use Value Designation: _____ (See Reference Sheet)

Observed Flow? Yes / No

Complaint Driven? Yes / No

Was illicit discharge found? Yes / No (If No, include explanation in comments)

Source Code for Discharge: _____ (See Reference Sheet. If N, U, or OTH; include description in comments)

Outfall Type: _____ (See Reference Sheet)

Outfall Shape: Circular / Box / Elliptical / Arch / Other _____

Outfall Material: _____ (See Reference Sheet)

Outfall Size, in inches: Height: _____ **Width:** _____

Additional Components: Flared End / End Wall / Wing Walls / Concrete Deck / Pipes / Manhole

Structural Condition (Harford): Good / Moderate / Severe

Structural Condition: Cracking / Spalling / Normal / Other

Recommend Referral for Repair: Yes / No

Outfall Submerged? Yes / No

Depth of pipe submerged, in inches: _____

Deposits: None / Oily / Sediment / Excessive Bacterial Growth (Harford) / Other

Vegetative Condition: Normal / Excessive / Inhibited

Erosion: None / Moderate / Severe

Algae Growth: Yes / No / Excessive (Harford)

INITIAL TEST	Outfall ID _____	Test # _____
Estimated Flow Rate: Trickle / Moderate / Substantial		Only required if flow is present
Measurable Flow Rate: _____ Flow rate units: CFS / LPM		
Flow Velocity (ft/s): _____	Flow Depth (inches): _____	
Color: Clear / Yellow / Brown / Green / Red / Grey / Other _____		
Clarity: Clear / Opaque / Cloudy / Other _____		
Floatables: None / Oil Sheen / Sewage / Trash / Toilet Paper (Harford) / Fecal Matter Harford) / Other _____		
Evidence Detergents/Surfactants: None / Suds-Bubbles / Other _____		
Odor: None / Sewage / Chlorine (Harford) / Sulfur / Oil or Gas / Rancid-Sour / Other _____		

Chem Test Performed? Yes / No

Air Temp (°F)	Water Temp (°F)	pH	Residual Chlorine	Detergents	Phenols

Copper	Turbidity	Color	D.O.	Conductivity

Data sheet review initials: 1st _____ 2nd _____

Photo IDs:

Comments:

FOLLOW-UP RETEST

Outfall ID _____

Test # _____

DATE: _____ TIME: _____ AM / PM

Observed Flow: Yes / No

Only required if flow is present

Estimated Flow Rate: Trickle / Moderate / Substantial

Measurable Flow Rate: _____ Flow rate units: CFS / LPM

Flow Velocity (ft/s): _____ Flow Depth (inches): _____

Color: Clear / Yellow / Brown / Green / Red / Grey / Other _____

Clarity: Clear / Opaque / Cloudy / Other _____

Floatables: None / Oil Sheen / Sewage / Trash / Toilet Paper (Harford) / Fecal Matter (Harford) / Other _____

Evidence Detergents / Surfactants: None / Suds-Bubbles / Other _____

Odor: None / Sewage / Chlorine (Harford) / Sulfur / Oil or Gas / Rancid-Sour / Other _____

Chem Test Performed? Yes / No

Air Temp (°F)	Water Temp (°F)	pH	Residual Chlorine	Detergents	Phenols

Copper	Turbidity	Color	D.O.	Conductivity

Data sheet review initials: 1st _____ 2nd _____

Photo IDs:

Comments:

TRACKDOWN DIAGRAM

APPENDIX F

HEALTH AND SAFETY GUIDANCE FOR DRY WEATHER SCREENING FIELD STAFF

F-1. Conduct

All field staff are expected to:

- Understand and comply with health and safety policies. Each employee is not only responsible and accountable for his/her own actions, but for those others around him/her.
- All employees shall show professional courtesy to fellow employees, clients, subcontractors, regulators, and visitors.
- Understand and follow good health and safety practices.
- Horseplay, practical joking, inattention to work or other inappropriate accident-causing behavior will not be tolerated.
- Smoking, eating, drinking and chewing shall be conducted only in designated areas.
- Use of alcohol or controlled substances is prohibited.
- While traveling to and from the job site, employees shall: obey all federal, state and local regulations regarding seat belt use, all traffic laws, and any other laws regarding proper conduct in public areas.

F-2. Personal Protective Equipment (PPE)

Engineering and administrative controls will be used as the primary means of exposure control, as required by OSHA standards. However, PPE may also be necessary to further minimize potential employee exposure. All employees shall dress appropriately for the tasks to be performed. Specialized health and safety equipment, including personal protective equipment, monitoring equipment, and other devices designed to protect the employee shall be issued to the employee on an as-needed basis.

Employees performing field activities and certain laboratory functions have the potential of coming in contact with hazardous materials. Many of these hazardous materials can cause significant injury or illness through acute or chronic exposures. For field work (including industrial operations), all field employees are required to wear the following basic PPE:

- Appropriate work clothing
- ANSI-approved steel-toed, steel-shank boots
- ANSI-approved safety glasses
- ANSI-approved hard hat (when overhead hazards exist)
- Hearing Protection (when appropriate)
- Rain Gear (when appropriate)

F-3. Confined Space Entry Program

A confined space is any location not intended for human occupation, has limited or no ventilation, has the potential for containing dangerous or lethal atmospheres, and has limited ingress/egress. OSHA has addressed confined space entry requirements and procedures in 29 CFR 1910.146 (Permit Required Confined Spaces) and 1926.651 (Excavations). Confined space entry, if necessary, will be performed in accordance with OSHA confined space entry procedures, industry-standard practices, and will be performed by confined space trained personnel. Appropriate confined space entry equipment, including tripod, winch, harness, and atmospheric sampling equipment will be obtained if needed.

The Team Leader will provide ongoing, real time ambient air monitoring of the locations to be sampled to determine the need for personal protection. Entry of the sampling personnel will be allowed if the following criteria are met:

- Oxygen level greater than 19.5%. Atmospheres with oxygen concentrations less than 19.5% are considered oxygen deficient and must be treated as Immediately Dangerous to Life and Health (IDLH) atmospheres.
- Lower explosive limit (LEL) reading is less than 3%

F-4. Dangerous Flora and Fauna

During the course of field activities, employees may come in contact with a wide range of dangerous or toxic animals and plants. Dangerous animals may include: black widow and brown recluse spiders; fire ants; mosquitoes and biting flies; bees, wasps and hornets; ticks and chiggers; microbial organisms (e.g., found in water, soil, and air and on carrier/host organisms); rabid mammals; and poisonous snakes. Dangerous plants may include: thorny plants; poison ivy, oak, and sumac; and molds, mildews, and fungi (which may cause allergic reactions). Contact with these organisms can cause effects from simple discomfort (such as from thorny bush scratches) to severe allergic reactions and possibly death.

F-5. Unknown Hazardous Substances and Wastes

The nature of environmental consulting often times requires the investigation of hazardous substances or wastes whose identity is not known. Because of the serious personal and environmental consequences of unintentional release of chemicals, very specific health and safety procedures must be implemented to monitor ambient conditions, mitigate releases to the environment, and protect workers from exposure. Most of these procedures dovetail with site investigation, sampling, and remediation techniques outlined by EPA policy and should be included in the project comprehensive work plan.

F-6. Bloodborne Pathogens

Exposure to bloodborne pathogens (BBP) is possible in the case of certain emergency situations (e.g., illness or injury in the field). Personnel may be exposed to body fluids such as blood, saliva, vomit, mucus or others. These fluids could contain pathogens that have the potential for causing disease in humans. Should personnel be required to administer life saving procedures, such as CPR, the following procedures will be followed to minimize the potential for exposure in accordance with 29 CFR (Bloodborne pathogens - 1910.1030):

- 1) Wear disposable gloves when hand contact with blood, mucus membranes, non-intact skin or other potentially infectious materials could be involved;
- 2) Use disposable mouthpieces, pocket masks or other ventilation devices for administering artificial ventilation;
- 3) Wash hands with soap and water after administering first aid;
- 4) In the case of eye contact, flush eyes using an eye wash for at least 15 minutes;
- 5) Remove garments contacted by blood or other body fluids as soon as possible;
- 6) Do not eat, drink, smoke or handle contact lenses in areas with possible BBP exposure; and
- 7) Persons cleaning up an accident scene should not pick up broken glass or other sharp objects by hand. All clothes and other items at the first aid scene should be safely secured prior to leaving.

Employees who may have been exposed to BBPs should report the incident at once.

F-7. Remote Areas

The sampling team may be located in areas not readily accessible by vehicle. Radio or telephone communication will be maintained from the sampling team to a base station in the event of an emergency.

F-8. Heavy Lifting

It may be necessary to carry sampling equipment (e.g., coolers, sampling containers, and equipment) during the course of the field activities. Care must be taken to avoid injury while carrying equipment to the sampling locations.

F-9. Hand Tools

Some of the field activities and sampling procedures may require the use of hand tools with sharp edges including machetes, scissors, clippers, knives, and razor blades. Care must be taken during their use to prevent injuries from cuts.

F-10. Weather-related Hazards

Weather-related hazards include the potential for heat or cold stress, electrical storms, treacherous weather-related working conditions, high winds, and limited visibility. These hazards correlate with the season in which site activities occur. In the event of adverse weather conditions, the Field Team Leader will determine if work can continue without endangering the health and safety of site personnel.

F-11. Heat and Cold Stress

This section is applicable to all personnel involved in field work as well as any other workers who may be exposed to temperature stress conditions.

Heat Stress

Heat stress is a significant potential hazard during the warmer months. Heat stress manifests itself as one of three conditions: heat cramps, heat exhaustion, or heat stroke. Heat cramps are brought about by a prolonged exposure to heat. As an individual sweats, water and salts are lost by the body, triggering painful muscle cramps. The signs and symptoms of heat cramps include:

- Severe muscle cramps, usually in the legs and abdomen;
- Exhaustion, often to the point of collapse; and
- Dizziness or periods of faintness.

First aid treatment includes shade, rest, and fluid replacement. The individual will drink electrolyte-replacement fluids (e.g., Gatorade, Sqwencher, 10-K), which will be made available to field personnel. If the individual has not recovered within $\frac{1}{2}$ hour, then he/she will be transported to the hospital for medical attention.

Heat exhaustion usually occurs in a healthy individual who has been exposed to excessive heat while working or exercising. Blood collects near the skin in an effort to rid the body of excess heat. The signs and symptoms of heat exhaustion include:

- Rapid and shallow breathing;
- Weak pulse;
- Cold and clammy skin, with heavy perspiration;
- Skin appears pale;
- Fatigue, weakness, and/or dizziness; and
- Elevated body temperature.

First aid treatment includes cooling the victim, elevating the feet, and replacing fluids. If the individual has not recovered within $\frac{1}{2}$ hour, he/she will be transported to the hospital for medical attention.

Heat stroke occurs when an individual is exposed to excessive heat, and their body systems become overwhelmed by heat and begin to stop functioning. This condition is a medical emergency, requiring the immediate cooling of the victim and transport to the hospital immediately. The signs and symptoms of heat stroke include:

- Victim has stopped sweating;
- Dry, hot, red skin;
- Body temperature approaching or above 105 °F;
- Dilated (large) pupils; and
- Loss of consciousness; victim may lapse into a coma.

Local weather conditions may produce an environment which will require restricted work schedules in order to protect employees. The Field Team Leader will observe workers for any potential symptoms of heat stress. Adaptation of work schedules and training in recognition of heat stress conditions will help prevent heat-related illnesses from occurring.

Cold Stress

Cold stress is a danger at low temperatures and when the wind chill factor is low. Cold stress is generally described as a local cooling (frost nip, frost bite, and freezing) or a general cooling (hypothermia). Personnel working outdoors in temperatures at or below freezing may be subject to local cooling. Areas of the body that have a high surface area-to-volume ratio, such as fingers, toes, and ears, are the most susceptible. The three categories of local cooling include:

- Frost nip - characterized by a blanching or whitening of the skin;
- Frost bite - skin has a waxy or white appearance and is firm to the touch, but the tissue beneath is resilient; and
- Freezing - skin tissue is cold, pale, and solid.

Frost nip and frost bite first aid includes covering the affected area with warmth and retreating to a warm area. Frozen tissue is a medical emergency, and the victim will be transported to the hospital immediately.

General cooling (hypothermia) occurs when exposure to cold reduces body temperature. With prolonged exposure, the body becomes unable to maintain its proper internal temperature. Without treatment, hypothermia will lead to stupor, collapse, and death. The signs and symptoms of mild hypothermia include:

- Shivering;
- Numbness; and
- Drowsiness.

First aid for mild hypothermia includes using heat to raise the individual's body temperature. Heat may be applied to the victim in the form of heat packs, hot water bottles, and blankets.

The signs and symptoms of severe hypothermia include:

- Unconsciousness;
- Slowed respiration or respiratory arrest;
- Slowed pulse or cardiac arrest;
- Irrational or stuporous state; and
- Muscular rigidity.

First aid for severe hypothermia includes handling the victim very gently; rough handling may set off an irregular heart beat. Do not attempt to re-warm the severely hypothermic victim; re-warming may cause the development of an irregular heart beat. Severe hypothermia is a medical emergency, and the victim will be transported to the hospital immediately.

Prevention of cold stress is a function of whole body protection. Adequate insulated clothing will be worn when the air temperature drops below 50 °F. Reduced work periods may be necessary in extreme conditions to allow adequate periods in a warm area.

APPENDIX G

HARFORD COUNTY LETTERS OF INTRODUCTION

ROBERT G. CASSILLY
Harford County Executive
ROBERT S. McCORD
Director of Administration



JOSEPH J. SIEMEK, P.E.
Director of Public Works

December 19, 2022

Dear Business/Property Owner:

As required under Harford County's National Pollutant Discharge Elimination System (NPDES) permit, the Harford County Department of Public Works has a Pollution Prevention and Illicit Discharge Monitoring Program. The goal of this program is to prevent pollution from entering local streams and waterways. As part of this program, the County is required inspect and monitor stormdrain outfalls to ensure that improper discharges are not entering the stormdrain system.

Harford County Government has contracted with Versar, Inc. to implement this inspection program. Representatives from Versar will be visiting your home or business to conduct an inspection of the stormdrains. Harford County is requesting permission for our consultant to access your property. If you should have any questions or concerns about this matter, please feel free to contact me via email at mgdobson@harfordcountymd.gov or at (410) 638-3217 ext. 1247.

Thank you for your cooperation to help the County to implement this program.

Sincerely,

Michele Dobson

Michele Dobson
Monitoring Coordinator
Harford County Department of Public Works
Watershed Protection and Restoration Office

MGD:mgd

Harford County Celebrates 250 Years ~ 1773-2023

410.638.3285 | 410.879.2000 | 212 South Bond Street, Bel Air, Maryland 21014 | www.harfordcountymd.gov

THIS DOCUMENT IS AVAILABLE IN ALTERNATIVE FORMAT UPON REQUEST

ROBERT G. CASSILLY
Harford County Executive
ROBERT S. McCORD
Director of Administration



JOSEPH J. SIEMEK, P.E.
Director of Public Works

December 19, 2022

Dear Business/Property Owner:

As required under Harford County's National Pollutant Discharge Elimination System (NPDES) permit, the Department of Public Works has a Pollution Prevention and Illicit Discharge Monitoring Program. The goal of this program is to prevent pollution from entering local streams and waterways. As part of this program, the County is required inspect commercial and industrial properties for potential pollution sources. The County also provides educational information on good housekeeping practices for businesses as needed.

Harford County Government has contracted with Versar, Inc. to implement this inspection program. Representatives from Versar will be visiting your business to conduct an inspection of the exterior portions of the property. Harford County is requesting permission for our consultant to access your property. If you should have any questions or concerns about this matter, please feel free to contact me via email at mgdobson@harfordcountymd.gov or at (410) 638-3217 ext. 1247.

Thank you for your cooperation to help the County to implement this program.

Sincerely,

Michele Dobson

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APPENDIX H

HARFORD COUNTY RIGHT OF ENTRY

§ Inspection; right of entry.

A.

All records, buildings and premises subject to inspection under this Code shall be inspected from time to time by the designated officer of the county or his designee.

B.

All records, rooms and areas of a building or premises shall be available and accessible for such inspection, which shall be made during usual business hours if the premises are used for nonresidential purposes, provided that inspections may be made at other times if:

(1)

The premises are not available during the foregoing hours for inspection;

(2)

There is reason to believe that violations are occurring on the premises which can only be apprehended and proved by inspection during other than the prescribed hours; or

(3)

There is reason to believe a violation exists of a character which is an immediate threat to health or safety, requiring inspection and abatement without delay.

C.

Where the designated officer or his designee is refused entry or access or is otherwise impeded or prevented by the owner, occupant or operator from conducting an inspection of the premises, such person shall be in violation of this Code and subject to the penalties thereunder.

APPENDIX I
HOTSPOT SITE INVESTIGATIONS

A Hotspot Site Investigation (HSI) is an assessment of a commercial or industrial site's potential to deliver pollutants to the MS4 as a result of business activities and conditions on the site. Elements of an HSI include assessments of vehicle operations, outdoor materials handling and storage, waste management, physical plant condition, turf and landscaping management, gutter and stormwater inlet clutter, availability of stormwater treatment practices, and overall housekeeping practices.

A Geographic Information Systems (GIS) technician uses GIS tools and on-line resources to investigate and select parcels as candidates for HSIs. The technician conducts a short series of assessments on the parcel features in the Harford County GIS data file (cadastral). The results of the assessments determine the qualifications of each parcel as a candidate. In brief, the series of assessments includes the following steps:

1. Determine the land use category of a parcel (only commercial or industrial uses qualify).
2. Investigate the business type that is currently using the parcel.
3. Qualitatively assess whether the business type would likely produce or distribute polluting materials.
4. Compare the parcel ID to lists of previously investigated parcels to screen for acceptability based on an interval, as requested by Harford County (e.g., not surveyed within the most recent five years).

Harford County's permit requires at least 50 successful HSI screenings of business parcels each year. The technician selects 50 candidate parcels and numerous extra parcels (e.g., 15 extra) to account for the potential that some of the candidate parcels might not be suitable or available for surveys by the field teams (this is determined on-site during each attempted survey). Versar submits a list of candidate parcels to Harford County DPW for review. The County may also include other parcels of special interest.

After the set of candidate parcels has been approved, the Versar field teams conduct surveys of the target parcels and businesses to achieve at least 50 successful surveys within the term of the reporting year. During the surveys, field staff pay particular attention to potential pollution sources from outdoor material storage (e.g., unprotected storage of pesticides, solvents, bulk materials, or hazardous materials), vehicle operations (e.g., outdoor maintenance, uncovered fueling operations), uncovered storage of trash or presence of leaking dumpsters, condition of the physical plant (e.g., connection of downspouts, condition of building(s), condition of pavement), landscape management (e.g., turf management status, presence of non-target irrigation), and condition of stormwater infrastructure (e.g., presence of stormwater controls, litter in gutters). During a survey, the field team prepares the HSI field data sheet (adapted from Wright, et al. 2005; an example is provided below). Staff consider overall housekeeping practices observed at the site when assigning no bubble, a half bubble, or a full bubble for each item on the data sheet while working through each representative section of the sheet. Field staff collect photographs to document the conditions being scored or noted on the data sheet. Field staff also draw or note on a prepared map of the site where they observe the notable conditions.

If a field team assesses that a site warrants a rating of a confirmed or severe hotspot, based on the results of the survey form, or otherwise requires immediate attention from Harford County staff, Versar staff report the conditions to County personnel in the order presented in Section 3.1. Versar will provide such a notification within two business days of the assessment that triggered the notification.

As the HSI surveys continue during the reporting year period, Versar staff will strive to review and compile the materials for each successfully surveyed site (i.e., completed field data sheets, marked map, and all photographic documentation) within one week of completing the survey; the Field Manager will select subsets of the accumulated materials to iteratively submit to Harford County for staff use based on a specific set of criteria. To facilitate Harford County's intention to promptly contact each applicable business owner and manager about a parcel that received a Potential Hotspot rating from a field team, Versar staff will provide the full set of digital materials relevant to the site (i.e., scanned field sheet, scanned map, and digital photographs) to Harford County staff; Versar will provide these materials in batches approximately every two weeks during an active survey period, or as directed by Harford County staff. Harford County maintains a data base of the progress and status of HSI screenings; to support iterative updates to the data base, the Versar Field Manager will also provide digital versions of every draft HSI field sheet in batches every two weeks during an active survey period, or as directed by Harford County staff.

Hotspot Site Investigation

HSI

WATERSHED:	SUBWATERSHED:	UNIQUE SITE ID:									
DATE: ____ / ____ / ____	ASSESSED BY:	CAMERA ID: _____ PIC#: _____									
MAP GRID:	LAT ____ ° ____ ' ____ " LONG ____ ° ____ ' ____ "	LMK # _____									
A. SITE DATA AND BASIC CLASSIFICATION <table> <tr> <td>Name and Address: _____</td> <td>Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility</td> <td>Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor</td> </tr> <tr> <td>SIC code (if available): _____</td> <td>Basic Description of Operation: _____</td> <td>INDEX*</td> </tr> <tr> <td>NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown</td> <td colspan="2"></td> </tr> </table>			Name and Address: _____	Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility	Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor	SIC code (if available): _____	Basic Description of Operation: _____	INDEX*	NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown		
Name and Address: _____	Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility	Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor									
SIC code (if available): _____	Basic Description of Operation: _____	INDEX*									
NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown											
B. VEHICLE OPERATIONS <input type="checkbox"/> N/A (Skip to part C)		Observed Pollution Source? <input type="checkbox"/>									
B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input type="checkbox"/> Other: _____											
B2. Approximate number of vehicles: _____											
B3. Vehicle activities (circle all that apply): Maintained <input type="radio"/> Repaired <input type="radio"/> Recycled <input type="radio"/> Fueled <input type="radio"/> Washed <input type="radio"/> Stored <input type="radio"/>											
B4. Are vehicles stored and/or repaired outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
Are these vehicles lacking runoff diversion methods? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
B5. Is there evidence of spills/leakage from vehicles? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
B8. Are vehicles washed outdoors? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell Does the area where vehicles are washed discharge to the storm drain? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
C. OUTDOOR MATERIALS <input type="checkbox"/> N/A (Skip to part D)		Observed Pollution Source? <input type="checkbox"/>									
C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
C2. Are materials stored outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are they <input type="checkbox"/> Liquid <input type="checkbox"/> Solid Description: _____ Where are they stored? <input type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area											
C3. Is the storage area directly or indirectly connected to storm drain (circle one)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
C5. Does outdoor storage area lack a cover? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
C6. Are liquid materials stored without secondary containment? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
D. WASTE MANAGEMENT <input type="checkbox"/> N/A (Skip to part E)		Observed Pollution Source? <input type="checkbox"/>									
D1. Type of waste (check all that apply): <input type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input type="checkbox"/> Hazardous materials											
D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing											
D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell											
E. PHYSICAL PLANT <input type="checkbox"/> N/A (Skip to part F)		Observed Pollution Source? <input type="checkbox"/>									
E1. Building: Approximate age: _____ yrs. Condition of surfaces: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged Evidence that maintenance results in discharge to storm drains (staining/discholoration)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know											

*Index: denotes potential pollution source; denotes confirmed polluter (evidence was seen)

Hotspot Site Investigation

HSI

**HARFORD COUNTY
ILLICIT DISCHARGE
INSPECTION PROGRAM:
SUMMARY REPORT
MONITORING PERIOD
JULY 2024 – JUNE 2025**

Prepared for

Harford County
Department of Public Works
Watershed Protection and Restoration
212 South Bond Street
Bel Air, Maryland 21014

Prepared by

Versar Global Solutions, Inc.
9200 Rumsey Road, Suite 1
Columbia, MD 21045

FINAL: October 3, 2025

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ACRONYMS

HSI	Hotspot Site Investigation
IDDE	Illicit Discharge Detection and Elimination
MS4	Municipal Separate Storm Sewer System
NA	Not Applicable
NPDES	National Pollutant Discharge Elimination System

ABBREVIATIONS AND UNITS OF MEASURE

cm	Centimeter
L	Liter
mg	Milligram
mS	Millisiemens
NTU	Nephelometric Turbidity Unit

1.0 INTRODUCTION

On an annual basis, Harford County (the County) conducts inspections of its Municipal Separate Storm Sewer System (MS4) outfalls and commercial and industrial facility parcels within its jurisdiction to detect discharges to the MS4 network from non-stormwater sources and to identify pollution sources from activities on commercial and industrial parcels, respectively. Such inspections are a requirement of Harford County's National Pollutant Discharge Elimination System (NPDES) permit (Maryland Department of the Environment permit number 22-DP-3310; NPDES permit number MD0068268). The inspections reflect Harford County's ongoing commitment to the identification, isolation, and correction of illicit discharge sources to the MS4 network and upland polluting conditions that threaten the health of county waterways. Harford County conducts outfall screening during dry weather conditions to target flows through the stormwater network that are specifically not associated with rain events. Harford County's NPDES permit requires that the County screen at least 100 outfalls and conduct at least 50 parcel surveys to search for potential pollution sources within the County's jurisdiction annually. The applicable jurisdiction is the entire county except several municipal areas that are otherwise covered by separate NPDES permits (i.e., portions of Aberdeen, Bel Air, and Havre de Grace).

Dry weather discharges are defined as any non-stormwater flow in the MS4 which may arise from one or more of the following causes (Brown, Caraco, and Pitt 2004):

- Inadvertent connection of sewage and septic flows;
- Washwater flows, such as residential gray water (laundry) discharges; water from commercial car washes, fleet washing, or commercial laundries; and floor washing to shop drains;
- Liquid wastes such as oil, paint, and process water that enter the storm drain system;
- Tap (potable) water;
- Landscape irrigation; and
- Groundwater or spring water.

Illicit discharges are those dry weather flows that contain pollutants or pathogens. Water quality tests conducted on samples of the flowing discharge are used to distinguish illicit discharges (sewage, septic flow, washwater, tap water additives, and wastes) from cleaner discharges such as groundwater.

During each annual reporting period, staff with Harford County's contractor, Versar Global Solutions, Inc. (Versar), conduct complete assessments for pre-selected outfalls during dry weather and document the findings. The assessments include physical inspections of the outfalls and surrounding conditions, and chemical tests on samples of the flowing discharges to characterize outfalls with possible illicit discharges and to identify discharges from other, natural sources, such as groundwater. Versar staff attempt to track the source of the discharge through the stormwater network of any outfall that exhibits flowing discharge. Within four to twenty-four hours (if

Introduction

feasible) after the initial screening of any outfall that had demonstrated flowing discharge during the first inspection, Versar staff return to the site to repeat the assessment process to document the extent that the conditions observed during the first visit are ongoing.

In some reporting years, Versar staff also conduct dry weather inspections of outfalls that are not included in the pre-selected group, as requested by Harford County. For instance, inspections might be prompted by a report of flowing discharge conditions documented by Harford County staff during routine outfall inspections or by a complaint received by a County agency of a potential illicit discharge to or from the MS4 system. During the 2024–2025 reporting year, Harford County did not request an inspection of any outfalls in addition to the pre-selected group.

To address potential upland sources of pollution within the County’s jurisdiction, the County conducts inspections at parcels on which businesses engage in commercial or industrial activities. Parcels with commercial and industrial land uses are more likely than other parcel types to have business activities that use or produce pollutants on the parcel and have spills or leaks during routine business activities; thus, the commercial and industrial parcel types indicate a relatively high potential for sources of pollution to the interconnected network of soil, groundwater, and surface waters. If there is a concentrated and significant source of pollution from the business facilities that use an individual parcel, the parcel is called a hotspot; several severity categories for hotspots can then be used to classify the relative amount of pollution and potential for environmental harm. Polluting contributions from hotspots may be a consequence of acute or cumulative input from conditions such as the following (Wright et al. 2005):

- Outdoor material storage (e.g., unprotected storage of pesticides, solvents, bulk materials, or hazardous materials);
- Vehicle operations (e.g., vehicle storage, outdoor maintenance, uncovered fueling operations);
- Uncovered storage of trash or presence of leaking dumpsters;
- Condition of the physical plant (e.g., connection of downspouts, poor condition of building(s), poor condition of pavement); and
- Inappropriate landscape management (e.g., inadequate or inappropriate turf management, presence of non-target irrigation), and condition of stormwater infrastructure (e.g., absence of stormwater controls, litter in gutters).

Each year, Versar field teams visit pre-selected commercial and industrial parcels to conduct visual surveys of storage practices, vehicle operations, physical plant condition, waste management, and landscape management practices to estimate the extent to which the conditions on the parcel demonstrate a pollution hotspot at the time of the survey. The field teams use a standard form to document the conditions and rank the level of pollution potential (see Appendix C for an example of the form). If Versar field teams find and report a substantial acute or ongoing pollution problem, Harford County staff conduct a thorough investigation of the conditions at the parcel to identify and initiate the necessary steps to eliminate the pollution source. Additional



Introduction

measures that the County may take to raise awareness of the potential for pollution include public outreach and education.

The Harford County Illicit Discharge Inspection Program: Summary Report that covers the 2024–2025 monitoring period documents the field results for Harford County’s illicit discharge and commercial and industrial hotspot site inspection program. The following sections describe the site selection protocol for Illicit Discharge Detection and Elimination (IDDE) target outfalls and commercial and industrial facilities, field inspection methods, and results of field inspections. A complete summary of the results of the outfall screening portion of the program for the reporting year accompany the 2024–2025 report as a separate deliverable. The results are derived from the field data that were uploaded by the field teams, reviewed for quality and consistency, and confirmed or revised based on the results of the quality control process. If necessary, the outfall data set will be modified and submitted as final with the final version of the annual report.



Introduction

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2.0 METHODS

2.1 OUTFALL SCREENING FOR ILLICIT DISCHARGE

2.1.1 Site Selection

Target outfalls for dry weather screening for illicit discharge during the 2024–2025 period derive from selections made early in the reporting year to prepare for field efforts. For the early selections, Versar staff use geographic information systems tools to create a full set of candidate target outfalls sufficient to meet the annual goal of 100 successful screenings. Harford County approves the final selection of target outfalls before the initiation of the field screening.

The program also accommodates inspections that are triggered by two possible circumstances — outfalls that are reported to have flowing discharge conditions by Harford County staff during routine outfall inspections or complaints submitted to the County agencies. If a Harford County government department receives a complaint that is relevant to the MS4 network, staff with the Watershed Protection and Restoration Department direct Versar teams to investigate the conditions as part of the annual screening process. Surveys triggered by either circumstance augment the list of target outfalls and are included in the tallies for the reporting year.

2.1.2 IDDE Field Screening Procedures

Versar staff use a tablet computer that has been outfitted with a computer program developed by Harford County to record the field data. The custom-built computer program, IDDE Survey123, is built on the ArcGIS Survey123 system. The program incorporates all data fields required to comply with the specifications mandated by the Maryland Department of the Environment for the IDDE component of the most recent version of the NPDES MS4 geodatabase (Maryland Department of the Environment 2024) and additional fields requested by Harford County to document conditions that are not required by the Maryland Department of the Environment. The program has electronic forms that accept the applicable data values and input, as determined and entered by field technicians. The forms are pre-populated with site-specific information to help field staff confirm the target site and facilitate an efficient screening process at each site.

Versar staff provide a digital data set of the pre-selected target outfalls in preparation for outfall screening visits. Harford County staff load the digital data set and other relevant data to the tablet (e.g., aerial photography, roads and road names, a recent version of the digital stormwater infrastructure data) to guide the field teams to the correct locations. Versar staff also create and print a map of each target outfall as a back-up resource for the field teams. Versar field teams also have printed hard-copy forms for recording data during the field surveys, if needed (see Appendix B for examples of the printed field data forms).

Versar staff screen outfalls after at least a 72-hour dry weather period (i.e., a period in which the region received less than 0.10 inches of precipitation that would otherwise mask improper discharges), as required by the Dry Weather Screening Plan (Versar 2023). Dry weather screening includes the following activities for each site:

- Locate and confirm the outfall (if possible) using the IDDE Survey123 program or the printed map and global positioning system coordinates; staff record the “field” coordinates of the outfall on-site and document whether the actual location significantly differs from the target;
- Photographically document the outfall and any applicable noteworthy conditions;
- Inspect the outfall and surrounding area for signs of infrastructure damage or staining, vegetation growth patterns, odors, sedimentation, and erosion;
- Inspect the outfall for physical evidence of dry weather flow;
- Collect a sample of the discharge water if the outfall has a flowing discharge, perform on-site water chemistry tests on the sample to measure IDDE program parameters, and perform cursory source tracking of any discharge;
- For any outfall that exhibits flowing discharge during the first visit, re-inspect the same site within four to twenty-four hours after the initial screening, weather permitting (if delayed, schedule a second screening as soon as is feasible after 24 hours); and
- For any outfall that exhibits flowing discharge during the second visit, collect a sample of the discharge, and test the sample for the IDDE program parameters.

Field teams collect a sample of the outfall discharge at each site, if the discharge has sufficient volume to constitute a viable sample, conduct a series of chemical tests on the sample, and measure specific parameters of the sample to gauge the water quality of the discharge. Field teams chemically test the discharge for a predetermined set of chemicals using CHEMetrics colorimetric field test kits. Staff measure water quality parameters such as dissolved oxygen, pH, turbidity, and specific conductivity with a YSI multiparameter sonde. Staff calibrate the YSI device prior to performing field investigations per manufacturer guidance. Versar's (2023) Illicit Discharge Monitoring Program manual contains details on instrument operation instructions and calibration procedures.

At the end of each field day, Versar staff confirm the secure storage of the day's set of digital forms and photographic documentation from the IDDE Survey123 program; if applicable, staff also scan all hard-copy data sheets and upload digital photograph files from the field cameras to Versar's computer network server. Computer network support staff create back-up copies of the files on the server daily, in accordance with Versar's corporate safe data policy. At the end of each field day, or week at the latest, Versar staff review and upload the most recent set of IDDE Survey123 program data to the on-line data storage site available through Harford County's website.

2.1.3 Discharge Classification

The dry weather outfall monitoring program protocol includes water quality testing to determine detectable concentrations of the analytes chlorine, copper, phenols, and surfactants (detergents). The test results, combined with the results of measurements of other parameters and observations of physical conditions at the site, guide the field teams through identifying and classifying a potential illicit discharge. Discharge source tracking and subsequent analyses can be used to further identify the discharge.

To identify a potential source of each discharge, the Versar field teams evaluate the chemical test results in combination with measured physical parameters and observations. The presence of chlorine and detectable chlorine odors may indicate tap water leaking (e.g., from a broken water supply pipe), release of water from a swimming pool, or sewage. The presence of chlorine and copper with low turbidity but no odor may be used to classify the discharge as tap water. The presence of surfactants, copper, and chlorine may be used to classify the discharge as washwater; physical clues such as suds and fragrant additives may also contribute to an identification of washwater. In any case, measured chemical concentrations combined with other factors may suggest a different source than the most likely type, as noted. Discharges that contain negligible amounts of chlorine and exhibit low conductivity and turbidity may be classified as groundwater infiltration.

Field crews classify the likelihood that an outfall discharge may be illicit by comparing the test results for each sample relevant to defined IDDE program thresholds (Table 2-1). For the purposes of the 2024–2025 IDDE report, discharges that are most likely to be illicit exceed thresholds for both total chlorine and copper or surfactants, discharges that are moderately likely to be illicit have exceeding levels of either chlorine or copper, and discharges that are less likely may have exceeding levels for any other measured parameter or no exceeding levels.

Table 2-1. Analytes, non-chemical parameters, testing ranges, and action criteria for dry weather discharge screening in Harford County

Analyte or Parameter	Effluent Type Indicated	Action Criterion	Minimum Detection Limit	Instrument Range	Kit or Probe
Total chlorine	industrial, drinking water, sewage	$\geq 0.4 \text{ mg/L}^{(a)}$	0.05 mg/L	0 to 5 mg/L	color comparator
Copper	industrial	$> 0.05 \text{ mg/L}^{(a)}$	0.05 mg/L	0 to 10 mg/L	color comparator
Phenols	dry cleaning	$> 0.05 \text{ mg/L}^{(a)}$	0.05 mg/L	0 to 12 mg/L	color comparator
Turbidity	industrial, sewage, washwater	$\geq 1000 \text{ NTU}^{(b)}$	0 NTU	NA	multiparameter water quality sonde
Surfactants (detergents)	sewage, washwater	$> 0.25 \text{ mg/L (residential)}^{(b)}$	0.125 mg/L	0 to 3 mg/L	color comparator
Dissolved oxygen	sewage	NA	NA	NA	multiparameter water quality sonde
Water temperature	sewage	$> 75.02 \text{ }^{\circ}\text{F}^{(c)}$	NA	NA	multiparameter water quality sonde
pH	industrial, washwater	$\leq 5 \text{ (industrial)}^{(b)}$	NA	0 to 14	multiparameter water quality sonde
Conductivity	industrial	$> 2 \text{ mS/cm (industrial)}^{(b)}$	NA	NA	multiparameter water quality sonde

(a) Exceedance criterion based on the test range of the field kit

(b) Source: Brown et al. (2004)

(c) Source: Baltimore County (2007)

Notes:

F: Fahrenheit

mg/L: milligrams per liter

mS/cm: millisiemens per centimeter

NA: Not Applicable

NTU: Nephelometric Turbidity Unit

2.2 COMMERCIAL AND INDUSTRIAL FACILITY INSPECTIONS

2.2.1 Facility Site Selection

Harford County staff decide the areas to be included for commercial and industrial facility inspections for Hotspot Site Investigations (HSIs) every year. In general, the selection process for the program includes a subset of possible land use categories to target the uses that are subjectively determined to have the highest pollution potential; the descriptions of the refined list are presented in Table 2-2. Versar staff use geographic information systems tools and on-line research to compile a list of candidate parcels sufficient to meet the annual minimum target of 50 successful screenings in the target areas. Harford County staff review a map and list of the candidate parcels, make recommendations for changes, and approve the final set of targets. Versar staff create and

print maps of individual target parcels that enable field teams to distinguish features on aerial photographs and to sketch features of interest directly on the maps.

Table 2-2. Land use types used to select facilities for hotspot site investigations

Land Use Description
Automobile sales or service establishment (towing)
Gasoline service (includes associated convenience store)
Consumer goods, other
Scientific and technical services
Manufacturing
Warehouse and storage and distribution
Truck and freight transportation services
Machinery and heavy construction
Special trade contractor (installation or repair services)
Retail and industrial
Other mixed uses
Vacant (with building)
Unimproved
Outdoor storage for an adjacent property

2.2.2 Commercial and Industrial Facility Field Inspections

Versar field teams conduct HSIs at the target commercial and industrial parcels guided by a process adapted from the approaches set forth in Wright et al. (2005) and suggested weighting directed by Harford County (Versar 2023). The field teams evaluate conditions at target parcels through a combination of observations documented from within the field team's vehicle and while the team members are walking around the parcel. The teams note and photograph visible signs of any potential pollution problems and complete the form on the HSI field data sheets (see Appendix C for an example). Prior to the inspection, when feasible, field staff announce themselves to property managers or employees, present the letter of introduction provided by Harford County for the surveys, and request permission to conduct the survey. If the property manager or employee representative refuses permission for the survey, the field team immediately leaves the premises; Versar staff alert Harford County staff about the conditions of each refused survey.

Field teams conduct HSIs using the inspection criteria on the HSI field data sheet as a guide. Versar staff notify Harford County staff soon after the inspections regarding the status of any parcel that exhibits obvious pollution problems during the site visits, as determined from guidelines defined on the field data sheets (i.e., a site condition assessment that receives an overall score that signifies either confirmed or severe hotspot status).

Methods

Versar personnel complete one HSI field form for each visited target site and document evident conditions for storage, waste, buildings and grounds, and stormwater facilities on the form. The form includes symbols that can be marked to indicate potential sources of pollution (circles) and observed polluting conditions (checkboxes). For each parcel, the inspecting field team tallies the marked symbols for the completed HSI form and uses the results to rate the hotspot status of the parcel according to the following scale:

- Fewer than 5 filled circles and no boxes checked: Not a hotspot;
- 5 to 10 filled circles and no boxes checked: Potential hotspot;
- 10 to 15 filled circles or 1 box checked, or both: Confirmed hotspot; or
- More than 15 filled circles or 2 or more boxes checked, or both: Severe hotspot.

3.0 RESULTS

3.1 OUTFALL INSPECTIONS

3.1.1 Summary of Screening Results

Versar staff successfully screened 112 Harford County MS4 outfalls within four watersheds (Maryland 8-digit scale) during the period from February through June 2025 of the 2024–2025 reporting period. Approximately 87 percent of the screened outfalls drained catchments with predominately residential land uses; the remainder drained agricultural or commercial land uses. Of the 112 outfalls screened, field teams found 17 outfalls that exhibited flowing discharges during the initial site inspections; the teams conducted on-site tests on samples of the discharge water. Field crews returned to evaluate conditions at the 17 outfalls as soon as it was feasible to do so, at least four hours after the initial visit. Table 3-1 presents a summary of the results of Harford County's IDDE dry weather outfall screening activities during the 2024–2025 reporting year; the results suggest that there were no outfalls screened during the reporting year that exhibited discharge most likely to be illicit, according to program protocols, and two outfalls that exhibited discharge moderately likely to be illicit. A draft version of the digital data set that represents the results of the outfall screening for the reporting period was developed by Versar and accompanies the annual report; the digital data set is provided to Harford County as a separate deliverable. Appendix A provides the projected coordinates (as documented in Harford County's digital data set of outfall points) for each successfully screened outfall. Appendix D provides a map that shows the locations of the outfalls screened during the 2024–2025 reporting period.

Table 3-1. Summary of Harford County dry weather IDDE outfall screening efforts during the 2024–2025 reporting year

Watershed	Outfalls Visited and Screened	Outfalls Found Flowing on the Initial Visit	Outfalls with Discharge Moderately Likely to be Illicit
Atkisson Reservoir	65	12	2
Broad Creek	2	0	0
Deer Creek	27	0	0
Little Gunpowder Falls	18	5	0
Total	112	17	2

Notes: All values are numbers of outfalls.

The criteria for moderately likely to be illicit include concentrations that exceed the program thresholds for Chlorine or Copper, but not both.

All outfalls screened during the reporting year did not meet the criteria for discharging illicit material, except the two noted in the table.

Versar field staff also performed a cursory source tracking of observed outfall discharges using data preloaded into the IDDE Survey123 program or a global positioning system device and maps of the storm drain infrastructure associated with each screened outfall, as applicable. During the upland surveys, teams gathered sufficient evidence through testing and observation to suggest that the sources of most of the discharges were groundwater, due to test results that did not exceed any of the IDDE program criteria for illicit discharges. Tap water leaking from a water main break that occurred during March 2025 was determined to be the source of at least the majority of the discharge observed at two of the outfalls screened during the reporting period, OF000309 and OF001535.

The test results for three of the 17 outfalls that had flowing discharge on the first visit exceeded the water quality thresholds for some of the measured parameters during at least one of the visits (see Table 2-1 and Table 3-1). The discharge from Outfall OF001491 during the initial visit suggested the potential for a high likelihood for an illicit discharge, according to the IDDE program's protocols, based on test results that indicated a concentration of surfactants above the program's relevant action criteria. The results of the tests conducted during the second visit demonstrated that no parameter levels exceeded program criteria; thus, the discharge from the outfall did not meet the requirements for an illicit discharge. At Harford County's request, a Versar field team returned to Outfall OF001491 to repeat the inspection process to monitor conditions at the site (i.e., test number 3). Results from the tests conducted during the third visit to the site also indicated that no parameters exceeded program criteria. Field teams searched for but did not determine the source of the water discharging from Outfall OF001491. Discharges from two outfalls (OF000309 and OF001535) had concentrations of chlorine that exceeded the water quality threshold during both tests (Table 3-2); the discharges did not have detectable levels of copper; thus, the discharges were moderately but not highly likely to be illicit. During the testing series for both outfalls, a water main break was discovered in the vicinity of the outfall network, and the predominate source of the discharge in both cases was tap water released from the damaged water supply pipe. Test results for the other 25 outfalls that had flowing discharge on the first visit did not meet the criteria for discharging illicit material because none of the test results exceeded program thresholds.

Table 3-2. Chemical test results for concentrations that exceeded program criteria from outfall discharges with a moderate likelihood for illicit connection

Outfall ID	Date of Test	Test Number	Chlorine (mg/L)
OF000309	3/10/2025	1	1.0
OF000309	3/11/2025	2	1.0
OF001535	3/10/2025	1	0.5
OF001535	3/11/2025	2	0.8

Note: The source of at least the majority of the discharge at both outfalls was determined to be tap water leaking from a damaged water supply pipe.

3.1.2 Outfalls Requiring Maintenance

Field teams assessed that one of the outfalls surveyed during the 2024–2025 reporting period required maintenance due to conditions documented during the initial screening visits and the conditions at seven of the outfalls surveyed warranted further investigation by Harford County. The field team indicated that conditions at Outfall OF000791 required maintenance by Harford County personnel because the outfall's endwall and deck have collapsed, and active erosion from the outfall site has contributed to the development of a deep ravine in the receiving waterway. The field team recommended repairs to address erosion downstream of Outfall OF000727. The field team recommended outfall clearing for Outfalls OF000786, OF001539, and OF001832, due to accumulated sediment and organic material (e.g., leaves and grass) that would impede the flow of stormwater from the outfall. The field team recommended repairs for Outfalls OF000073, OF001513, and OF001535 to repair or replace damaged structural elements of the outfall assemblies (e.g., flared end, endwall, or deck).

3.2 COMMERCIAL AND INDUSTRIAL FACILITY INSPECTIONS

For the facility inspections conducted during the 2024–2025 reporting year, Harford County staff requested a set of target parcels that included some parcels that had been screened in the past (e.g., at least five years ago) and a blend of low- and medium-priority areas. Versar staff selected candidate parcels from areas near the western edge of the county. Harford County staff approved the candidate list of parcels before the field screening began.

Versar field teams used the HSI guidelines noted above to conduct and document inspections of industrial or commercial facilities during the period between January 2 and February 14, 2025, to identify and qualify potential sources of pollution to Harford County's NPDES jurisdiction. Field teams inspected single parcels, generally, but combined adjacent parcels into one survey if the activities on the parcels were associated with the same business(es); the groupings are also referred to as "parcels," for simplicity. In decreasing order of density per region, the facilities inspected were located in the regions of Fallston, Jarrettsville, Bel Air, and White Hall, Maryland. Field assessments and subsequent data reviews determined that 50 of the 54 inspected parcels were likely not hotspots, based on conditions observed during the field surveys (Table 3-3). Four parcels received sufficient marks to qualify as potential hotspots (Table 3-4). The field teams did not find conditions at any parcels that would qualify the parcels as confirmed or severe hotspots during the reporting year.

Summaries of completed facility inspection results from the reporting year are provided in Tables 3-3 and 3-4. Each table includes six general categories for aspects of business operations, property characteristics, and the presence and condition of stormwater conveyance or retention features. The categories are vehicle operations, outdoor materials, waste management, physical plant, turf/landscaping, and stormwater infrastructure. For each inspection record, an "X" in any of the six columns (shown to the left of the notes column) denotes a potential source of pollution or lack of adequate protection from pollution in the associated category that was noted by the field teams during the surveys. Appendix C provides an example of the blank field sheets that the field

Results

teams used as forms on which to record observations and tally results. Appendix E provides maps that show the locations of parcels inspected for the 2024–2025 reporting period and nearby sites that had been inspected in previous years.

Table 3-3. Inspection results for facilities found to be not a hotspot during the 2024–2025 reporting year

Parcel ID	Address	Town	Business Name (or Primary Types)	Inspection Date	Vehicle Operations	Outdoor Materials	Waste Management	Physical Plant	Turf/Landscaping	Stormwater Infrastructure	Notes
03028356, 03039374, 03047369, and 03065987	203 Connolly Road	Fallston	Multiple	01/17/25	X	X					
03028364	1320 Baltimore Pike	Bel Air	Superior Motor Company	01/15/25							
03028755 and 03051188	1329 Belair Road	Bel Air	Jones (automotive; budget lot)	01/17/25							
03033880	2205 Belair Road	Fallston	Multiple	02/14/25		X					
03034356 and 03036871	1230 Belair Road	Bel Air	Bob Bell Chevrolet	01/15/25	X	X	X				
03036731	1601 Belair Road	Fallston	Los Primos hand car wash and detailing	01/23/25	X	X					
03038971	2823 Belair Road	Fallston	Tacos Tolteca	02/14/25		X					
03038998	1704 Harford Road	Fallston	84 Lumber	01/23/25		X	X				
03041298	112 Connolly Road	Fallston	Multiple	02/05/25	X	X	X				
03041948	2019 Fallston Road	Fallston	Frank Thomas Sawmill	01/10/25	X	X		X			
03042219	1215 Baltimore Pike	Bel Air	Multiple (Bell Gate Centre)	01/17/25	X	X	X				
03042936	120 Connolly Road	Fallston	Caliber Collision	01/23/25	X	X	X				
03044149	1708 Harford Road	Fallston	410 Tint Pro; RT Auto Works	01/23/25	X		X				
03044912 and 03044920	1315 Belair Road	Bel Air	Jones Bel Air Subaru	01/17/25	X						
03048101	1612 Belair Road	Fallston	Enterprise Rent-A-Car	02/05/25	X		X				
03056295 and 03348210	1807 Connolly Road	Fallston	Chris' Towing and Transport	02/05/25	X	X	X				
03057976 and 03266494	1716 Harford Road	Fallston	ALP Roofing; Fallston Building	01/17/25	X	X	X				
03064581	1515 Belair Road	Fallston	Marathon gas station; Bel Air Auto Service	01/23/25	X	X					
03068293	2320 Belair Road	Fallston	Fallston Auto Wash	02/14/25	X						
03069265 and 03069273	1000 N. Tollgate Road	Bel Air	Winters Run Golf Course	01/15/25	X	X					An irrigation system is being installed.

Table 3-3. Continued

Parcel ID	Address	Town	Business Name (or Primary Types)	Inspection Date	Vehicle Operations	Outdoor Materials	Waste Management	Physical Plant	Turf/Landscaping	Stormwater Infrastructure	Notes
03069702	1710 Harford Road	Fallston	Genesis of Bel Air	01/17/25	X	X					
03097218	602 Fallston Road	Fallston	Fallston Service Center and U-Haul	01/15/25	X	X					
03122360 and 03127869	1910 Belair Road	Fallston	Mirror Image Detailing; Avis/Budget Rent a Car	02/05/25	X	X					
03179532	1621 Belair Road	Fallston	Multiple	01/23/25							
03192679	1021 Old Fallston Road	Fallston	The Chimney Doctor	01/15/25	X						
03194604	2401 Belair Road	Fallston	Shell gas station	02/14/25	X						
03304485	1607 Belair Road	Fallston	Richard's Seafood Stop	01/23/25		X					
03362868	1916 Belair Road	Fallston	Waffle House	02/13/25		X					
03397982	1908R Belair Road	Fallston	All Pro Auto Body; Xtreme Clean Detailing	02/13/25	X	X					
03398723	1918 Belair Road	Fallston	The Local (restaurant)	02/13/25		X					
03398724	1920 Belair Road	Fallston	Dunkin'	02/13/25							
04009835	1246 Baldwin Mill Road	Jarrettsville	Calary's Auto Repair	01/03/25	X	X		X			
04020782	3712 Norrisville Road	Jarrettsville	Dunkin'	01/03/25							
04022386 and 04026047 and 04064801	3713 Norrisville Road	Jarrettsville	Keene Dodge (auto sales)	02/13/25	X	X	X				
04028635, 04028643, 04028678, and 04035321	1104 Baldwin Mill Road	Jarrettsville	Keene Dodge (commercial and overflow lots)	02/13/25	X	X	X				

Table 3-3. Continued

Parcel ID	Address	Town	Business Name (or Primary Types)	Inspection Date	Vehicle Operations	Outdoor Materials	Waste Management	Physical Plant	Turf/Landscaping	Stormwater Infrastructure	Notes
04035208	1105 Baldwin Mill Road	Jarrettsville	Carroll gas station	01/03/25	X	X		X			The car wash area appears to be used for storage.
04041941	3711 Federal Hill Road	Jarrettsville	High's gas station	01/03/25							
04041976	2400 Pleasantville Road	Fallston	7-11 gas station	01/10/25							
04044886	2414 Pleasantville Road	Fallston	Multiple	01/10/25	X	X					
04045203 and 04060024	1745 W. Jarrettsville Road	Jarrettsville	Jack's Small Engines	01/03/25	X	X					
04056442	4049 Federal Hill Road	Jarrettsville	Don's Automotive	01/03/25	X		X				The oil tank was upgraded to a double-walled container after an inspection in 2019.
04056531	3632 Anderson Lane	Jarrettsville	Jones Pump Service	01/10/25	X						
04058100	3051 Troyer Road	White Hall	Black Horse Golf	01/02/25							The golf range is still in operation, but a sign indicates that a church uses the main building.
04061950	4106 Norrisville Road	White Hall	Madonna Auto Sales and Service	01/02/25							
04062620	3803 Norrisville Road	Jarrettsville	Multiple	01/10/25	X	X					
04063473	4551 Norrisville Road	White Hall	The Mill of Black Horse (garden center)	01/02/25	X	X					
04064488	3805 Norrisville Road	Jarrettsville	Jarrettsville Truss Co.; Jarrettsville Medical Center	01/03/25	X	X					
04075099	4545 Norrisville Road	White Hall	Southern States Petroleum	01/02/25	X	X	X				
04087526	4059-A Norrisville Road	Jarrettsville	SRG Construction (pool and spa supplies and construction)	01/02/25							
04396805	4101 Norrisville Road	White Hall	High's gas station	01/02/25							

Table 3-4. Inspection results for facilities found to be a potential hotspot during the 2024–2025 reporting year

Parcel ID	Address	Town	Business Name (or Primary Types)	Inspection Date	Vehicle Operations	Outdoor Materials	Waste Management	Physical Plant	Turf/Landscaping	Stormwater Infrastructure	Notes
03061337	2315 Belair Road	Fallston	Multiple	02/14/25	X	X	X				
03089010	1800 W. Grove Avenue	Fallston	Multiple	02/05/25	X	X		X			
03105385	1800 Belair Road	Fallston	Heritage Honda	02/05/25	X	X	X				
04026144	3725 Federal Hill Road	Jarrettsville	Multiple	01/10/25	X	X	X				There is loose trash adjacent to the dumpster, next to the inlet.

4.0 CONCLUSIONS

During the 2024–2025 reporting year, Harford County successfully investigated 112 outfalls to comply with the Illicit Discharge Monitoring Program and meet NPDES permit requirements. Successful testing of the 17 outfalls with flowing discharge observed during the initial field investigations demonstrated that none of the outfalls had a high likelihood for illicit connection based on the dry weather screening protocols. Two outfalls had a moderate likelihood for an illicit discharge, based on chlorine concentrations that exceeded the program thresholds in successive tests; the predominate source of the discharge in both cases was determined to be tap water leaking from a damaged water supply pipe (water main) which was promptly repaired by County maintenance crews. Through source tracking, the field team deduced that the source of the flowing discharges was groundwater in the majority of the cases.

Harford County conducted hotspot investigations at 54 parcels with commercial and industrial business activities throughout the county. The field teams identified four potential hotspots during the reporting period and no confirmed or severe hotspots.

Conclusions

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5.0 REFERENCES

Baltimore County. 2007. National Pollutant Discharge Elimination System (NPDES) Annual Report. Section 5 - Illicit Connections Program. Baltimore County, Maryland.

Brown, E., D. Caraco, and R. Pitt. 2004. Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments. Center for Watershed Protection, Ellicott City, MD. October.

Maryland Department of the Environment. 2024. National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4), Geodatabase Design and User's Guide, Version 2.0. Prepared by Maryland Department of the Environment and Maryland Environmental Service. September.

Versar, Inc. 2023. Harford County Illicit Discharge Monitoring Program: Site Selection, Screening, and Quality Assurance Protocols. Prepared by Versar, Inc., for Harford County Department of Public Works, Division of Highways and Water Resources, Bel Air, MD. December.

Wright, T., C. Swann, K. Cappiella, and T. Schueler. 2005. Unified Subwatershed and Site Reconnaissance: A User's Manual, Version 2.0. Urban Subwatershed Restoration Manual Series. Center for Watershed Protection, Ellicott City, MD. February.

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APPENDIX A

**LIST OF OUTFALLS SCREENED
DURING THE 2024–2025 PERIOD**

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Table A-1. Outfalls successfully screened by Versar staff during the 2024–2025 reporting period, listed in order of initial screening date

Outfall ID	Initial Inspection Date	Coordinates (Maryland)		Outfall ID	Initial Inspection Date	Coordinates (Maryland)			
		(NAD83 State Plane feet)				(NAD83 State Plane feet)			
		Northing	Easting			Northing	Easting		
OF000487	2/24/2025	737444.57	1445742.00	OF001207	3/10/2025	684053.01	1487292.60		
OF000706	2/24/2025	737029.87	1444679.41	OF001491	3/10/2025	683196.20	1487172.67		
OF000713	2/24/2025	741293.74	1443427.29	OF001492	3/10/2025	682794.19	1486740.59		
OF000736	2/24/2025	731898.29	1466415.24	OF001535	3/10/2025	683849.46	1486132.60		
OF002606	2/24/2025	730609.56	1471099.59	OF000072	3/11/2025	682529.16	1486131.02		
OF002897	2/24/2025	739209.71	1436085.05	OF000073	3/11/2025	681822.20	1486188.36		
OF002910	2/24/2025	738661.31	1465685.57	OF001479	3/11/2025	682628.32	1485997.29		
OF000735	2/25/2025	728024.46	1456769.09	OF001487	3/11/2025	680969.37	1487816.30		
OF000737	2/25/2025	728645.85	1456595.63	OF001494	3/11/2025	681437.12	1486233.66		
OF000738	2/25/2025	730395.60	1456835.67	OF000070	3/12/2025	681106.12	1485854.46		
OF000760	2/25/2025	717921.44	1452224.43	OF001483	3/12/2025	680786.73	1485939.79		
OF002855	2/25/2025	727222.03	1455093.00	OF003265	3/12/2025	683405.90	1488907.00		
OF000727	2/26/2025	722354.91	1466859.36	OF003266	3/12/2025	683275.99	1488899.50		
OF000728	2/26/2025	722059.04	1466253.11	OF000071	3/13/2025	682440.10	1488621.86		
OF000729	2/26/2025	721473.82	1464893.35	OF000075	3/13/2025	681595.28	1488066.63		
OF000730	2/26/2025	721520.25	1464038.33	OF001485	3/13/2025	681748.82	1488093.17		
OF000731	2/26/2025	721384.91	1462287.62	OF001486	3/13/2025	681692.85	1488001.57		
OF000732	2/26/2025	723740.90	1464093.43	OF001488	3/13/2025	682394.43	1488414.15		
OF000765	2/26/2025	715028.15	1451585.69	OF001536	3/13/2025	680911.10	1488315.75		
OF000774	2/26/2025	715641.52	1454060.09	OF001537	3/13/2025	681767.59	1488808.65		
OF000786	2/26/2025	719346.52	1461746.75	OF001538	3/13/2025	681554.65	1488253.17		
OF000787	2/26/2025	719261.92	1461194.47	OF001539	3/13/2025	681133.74	1488072.54		
OF000788	2/26/2025	719686.24	1462440.37	OF001815	4/18/2025	664128.89	1488023.79		
OF000789	2/26/2025	718980.85	1464934.81	OF001819	4/18/2025	665212.98	1490932.37		
OF000791	2/26/2025	718676.34	1465121.66	OF001820	4/18/2025	664664.74	1489942.77		
OF000792	2/26/2025	718705.41	1465169.15	OF001852	4/18/2025	667088.82	1491986.00		
OF000796	2/26/2025	716632.71	1464435.12	OF001853	4/18/2025	667072.43	1491992.99		
OF000410	3/3/2025	734643.24	1485519.02	OF001926	4/18/2025	668815.21	1492784.56		
OF003030	3/3/2025	732245.19	1488399.00	OF001927	4/18/2025	668562.32	1493003.70		
OF000309	3/10/2025	684262.03	1486122.64	OF001928	4/18/2025	668115.11	1493130.90		
OF000650	3/10/2025	684304.51	1485987.67	OF001950	4/18/2025	667542.92	1492471.47		

Table A-1. Continued

Outfall ID	Initial Inspection Date	Coordinates		Outfall ID	Initial Inspection Date	Coordinates			
		(NAD83 State Plane feet)				(NAD83 State Plane feet)			
		Northing	Easting			Northing	Easting		
OF001951	4/18/2025	667679.30	1493096.76	OF001513	5/20/2025	679028.01	1480802.48		
OF002896	4/18/2025	663433.63	1490044.20	OF001515	5/20/2025	679623.08	1486274.73		
OF001816	4/21/2025	664941.96	1488887.85	OF001516	5/20/2025	679082.85	1486211.67		
OF001818	4/21/2025	666396.32	1489961.96	OF001517	5/20/2025	679098.52	1486459.15		
OF002560	4/21/2025	665088.01	1486927.03	OF000372	6/4/2025	672512.93	1488007.78		
OF002562	4/21/2025	663882.16	1485885.64	OF000389	6/4/2025	671314.52	1486989.06		
OF002607	4/21/2025	664149.82	1485725.82	OF001793	6/4/2025	670238.49	1487095.39		
OF002608	4/21/2025	664145.66	1486037.46	OF001794	6/4/2025	669774.12	1487080.73		
OF002609	4/21/2025	664608.41	1485789.55	OF001795	6/4/2025	669998.33	1487226.92		
OF002610	4/21/2025	664825.62	1485844.24	OF001804	6/4/2025	670811.20	1488723.98		
OF000117	4/22/2025	665188.21	1484355.37	OF001850	6/4/2025	669570.02	1486779.06		
OF001812	4/22/2025	665213.77	1484246.49	OF003469	6/4/2025	673220.46	1488709.89		
OF001827	4/22/2025	662809.34	1484792.88	OF003470	6/4/2025	673151.02	1488777.25		
OF001830	4/22/2025	663119.49	1486632.23	OF002318	6/6/2025	644648.69	1489844.11		
OF001831	4/22/2025	663081.38	1486650.35	OF002713	6/6/2025	644060.94	1490615.34		
OF001832	4/22/2025	662549.23	1486447.65	OF002715	6/6/2025	644861.67	1490487.83		
OF002561	4/22/2025	664237.66	1486634.75	OF002860	6/6/2025	645326.00	1489891.19		
OF002711	4/22/2025	664057.98	1485611.73	OF003037	6/6/2025	643129.89	1490541.37		
OF000115	4/23/2025	665475.48	1484527.16	OF003038	6/6/2025	643988.40	1490351.19		
OF001811	4/23/2025	666089.85	1483251.08						
OF000116	4/24/2025	667327.53	1483602.76						
OF001809	4/24/2025	667323.75	1483584.83						
OF001823	4/24/2025	661221.47	1482169.02						
OF001841	4/24/2025	663951.35	1482569.66						
OF002966	4/24/2025	666996.41	1484115.96						
OF002983	4/24/2025	667177.11	1483935.79						
OF002985	4/24/2025	667488.74	1483567.99						
OF000080	5/20/2025	677276.08	1480257.11						
OF001510	5/20/2025	678633.33	1482169.19						
OF001511	5/20/2025	678597.33	1481619.41						

APPENDIX B

**EXAMPLE DATA SHEETS
FOR DRY WEATHER SCREENING**

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Harford County IDDE Outfall Survey Sheet

Outfall ID:	MDE North:	Test #:
Date:	MDE East:	
Time:	Found: Yes / No	
Date of last rain > 0.1 inches:	Amount of last rain > 0.1 inches (Harford):	

Location Description Address: _____

Location Watershed (Harford): _____ (See Reference Sheet)

General Land Use (Harford): Rural / Residential / Urban

MDP Land Use Value Designation: _____ (See Reference Sheet)

Observed Flow? Yes / No

Complaint Driven? Yes / No

Was illicit discharge found? Yes / No (If No, include explanation in comments)

Source Code for Discharge: _____ (See Reference Sheet. If N, U, or OTH; include description in comments)

Outfall Type: _____ (See Reference Sheet)

Outfall Shape: Circular / Box / Elliptical / Arch / Other _____

Outfall Material: _____ (See Reference Sheet)

Outfall Size, in inches: Height: _____ Width: _____

Additional Components: Flared End / End Wall / Wing Walls / Concrete Deck / Pipes / Manhole

Structural Condition (Harford): Good / Moderate / Severe

Structural Condition: Cracking / Spalling / Normal / Other

Recommend Referral for Repair: Yes / No

Outfall Submerged? Yes / No

Depth of pipe submerged, in inches _____

Deposits: None / Oily / Sediment / Excessive Bacterial Growth (Harford) / Other

Vegetative Condition: Normal / Excessive / Inhibited

Erosion: None / Moderate / Severe

Algae Growth: Yes / No / Excessive (Harford)

INITIAL TEST	Outfall ID _____	Test # _____
Estimated Flow Rate: Trickle / Moderate / Substantial <div style="border: 1px solid black; padding: 2px; float: right; margin-top: -20px;">Only required if flow is present</div>		
Measurable Flow Rate: _____	Flow rate units: CFS / LPM	
Flow Velocity (ft/s): _____	Flow Depth (inches): _____	
Color: Clear / Yellow / Brown / Green / Red / Grey / Other _____		
Clarity: Clear / Opaque / Cloudy / Other _____		
Floatables: None / Oil Sheen / Sewage / Trash / Toilet Paper (Harford) / Fecal Matter Harford) / Other _____		
Evidence Detergents/Surfactants: None / Suds-Bubbles / Other _____		
Odor: None / Sewage / Chlorine (Harford) / Sulfur / Oil or Gas / Rancid-Sour / Other _____		

Chem Test Performed? Yes / No

Air Temp (°F)	Water Temp (°F)	pH	Total Chlorine	Detergents	Phenols

Copper	Turbidity	Color	D.O.	Conductivity

Data sheet review initials: 1st _____ 2nd _____

Photo IDs:

Comments:

FOLLOW-UP RETEST	Outfall ID _____	Test # _____
DATE: _____	TIME: _____	AM / PM
Observed Flow: Yes / No	Only required if flow is present	
Estimated Flow Rate: Trickle / Moderate / Substantial		
Measurable Flow Rate: _____	Flow rate units: CFS / LPM	
Flow Velocity (ft/s): _____	Flow Depth (inches): _____	
Color: Clear / Yellow / Brown / Green / Red / Grey / Other _____		
Clarity: Clear / Opaque / Cloudy / Other _____		
Floatables: None / Oil Sheen / Sewage / Trash / Toilet Paper (Harford) / Fecal Matter (Harford) / Other _____		
Evidence Detergents / Surfactants: None / Suds-Bubbles / Other _____		
Odor: None / Sewage / Chlorine (Harford) / Sulfur / Oil or Gas / Rancid-Sour / Other _____		

Chem Test Performed? Yes / No

Air Temp (°F)	Water Temp (°F)	pH	Total Chlorine	Detergents	Phenols

Copper	Turbidity	Color	D.O.	Conductivity

Data sheet review initials: 1st _____ 2nd _____

Photo IDs:

Comments:

TRACKDOWN DIAGRAM



Appendix C

APPENDIX C

DATA SHEETS

FOR FACILITY INSPECTIONS

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Hotspot Site Investigation
HSI

WATERSHED:	SUBWATERSHED:	UNIQUE SITE ID:										
DATE: ____ / ____ / ____	ASSESSED BY:	CAMERA ID:	PIC#:									
MAP GRID:	LAT ____ ° ____ ' ____ " LONG ____ ° ____ ' ____ "	LMK#										
A. SITE DATA AND BASIC CLASSIFICATION <table> <tr> <td>Name and Address: _____</td> <td>Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility</td> <td>Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor</td> </tr> <tr> <td>SIC code (if available): _____</td> <td>Basic Description of Operation: _____</td> <td>INDEX*</td> </tr> <tr> <td>NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown</td> <td></td> <td></td> </tr> </table>				Name and Address: _____	Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility	Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor	SIC code (if available): _____	Basic Description of Operation: _____	INDEX*	NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown		
Name and Address: _____	Category: <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Institutional <input type="checkbox"/> Municipal <input type="checkbox"/> Golf Course <input type="checkbox"/> Transport-Related <input type="checkbox"/> Marina <input type="checkbox"/> Animal Facility	Housekeeping <input type="checkbox"/> Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Very Poor										
SIC code (if available): _____	Basic Description of Operation: _____	INDEX*										
NPDES Status: <input type="checkbox"/> Regulated <input type="checkbox"/> Unregulated <input type="checkbox"/> Unknown												
B. VEHICLE OPERATIONS <input type="checkbox"/> N/A (Skip to part C)		Observed Pollution Source? <input type="checkbox"/>										
B1. Types of vehicles: <input type="checkbox"/> Fleet vehicles <input type="checkbox"/> School buses <input type="checkbox"/> Other: _____												
B2. Approximate number of vehicles: _____												
B3. Vehicle activities (circle all that apply): Maintained <input type="checkbox"/> Repaired <input type="checkbox"/> Recycled <input type="checkbox"/> Fueled <input type="checkbox"/> Washed <input type="checkbox"/> Stored <input type="radio"/>												
B4. Are vehicles stored and/or repaired outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/> Are these vehicles lacking runoff diversion methods? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
B5. Is there evidence of spills/leakage from vehicles? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
B6. Are uncovered outdoor fueling areas present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
B7. Are fueling areas directly connected to storm drains? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
B8. Are vehicles washed outdoors? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/> Does the area where vehicles are washed discharge to the storm drain? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
C. OUTDOOR MATERIALS <input type="checkbox"/> N/A (Skip to part D)		Observed Pollution Source? <input type="checkbox"/>										
C1. Are loading/unloading operations present? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/> If yes, are they uncovered and draining towards a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
C2. Are materials stored outside? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/> If yes, are they <input type="checkbox"/> Liquid <input type="checkbox"/> Solid Description: _____ Where are they stored? <input type="checkbox"/> grass/dirt area <input type="checkbox"/> concrete/asphalt <input type="checkbox"/> bermed area <input type="radio"/>												
C3. Is the storage area directly or indirectly connected to storm drain (circle one)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
C4. Is staining or discoloration around the area visible? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
C5. Does outdoor storage area lack a cover? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
C6. Are liquid materials stored without secondary containment? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
C7. Are storage containers missing labels or in poor condition (rusting)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
D. WASTE MANAGEMENT <input type="checkbox"/> N/A (Skip to part E)		Observed Pollution Source? <input type="checkbox"/>										
D1. Type of waste (check all that apply): <input type="checkbox"/> Garbage <input type="checkbox"/> Construction materials <input type="checkbox"/> Hazardous materials <input type="radio"/>												
D2. Dumpster condition (check all that apply): <input type="checkbox"/> No cover/Lid is open <input type="checkbox"/> Damaged/poor condition <input type="checkbox"/> Leaking or evidence of leakage (stains on ground) <input type="checkbox"/> Overflowing <input type="radio"/>												
D3. Is the dumpster located near a storm drain inlet? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/> If yes, are runoff diversion methods (berms, curbs) lacking? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Can't Tell <input type="radio"/>												
E. PHYSICAL PLANT <input type="checkbox"/> N/A (Skip to part F)		Observed Pollution Source? <input type="checkbox"/>										
E1. Building: Approximate age: _____ yrs. Condition of surfaces: <input type="checkbox"/> Clean <input type="checkbox"/> Stained <input type="checkbox"/> Dirty <input type="checkbox"/> Damaged <input type="radio"/> Evidence that maintenance results in discharge to storm drains (staining/discholoration)? <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> Don't know <input type="radio"/>												

*Index: denotes potential pollution source; denotes confirmed polluter (evidence was seen)

Hotspot Site Investigation

HSI

APPENDIX D

**MAP OF OUTFALLS SCREENED
DURING THE 2024–2025 PERIOD**

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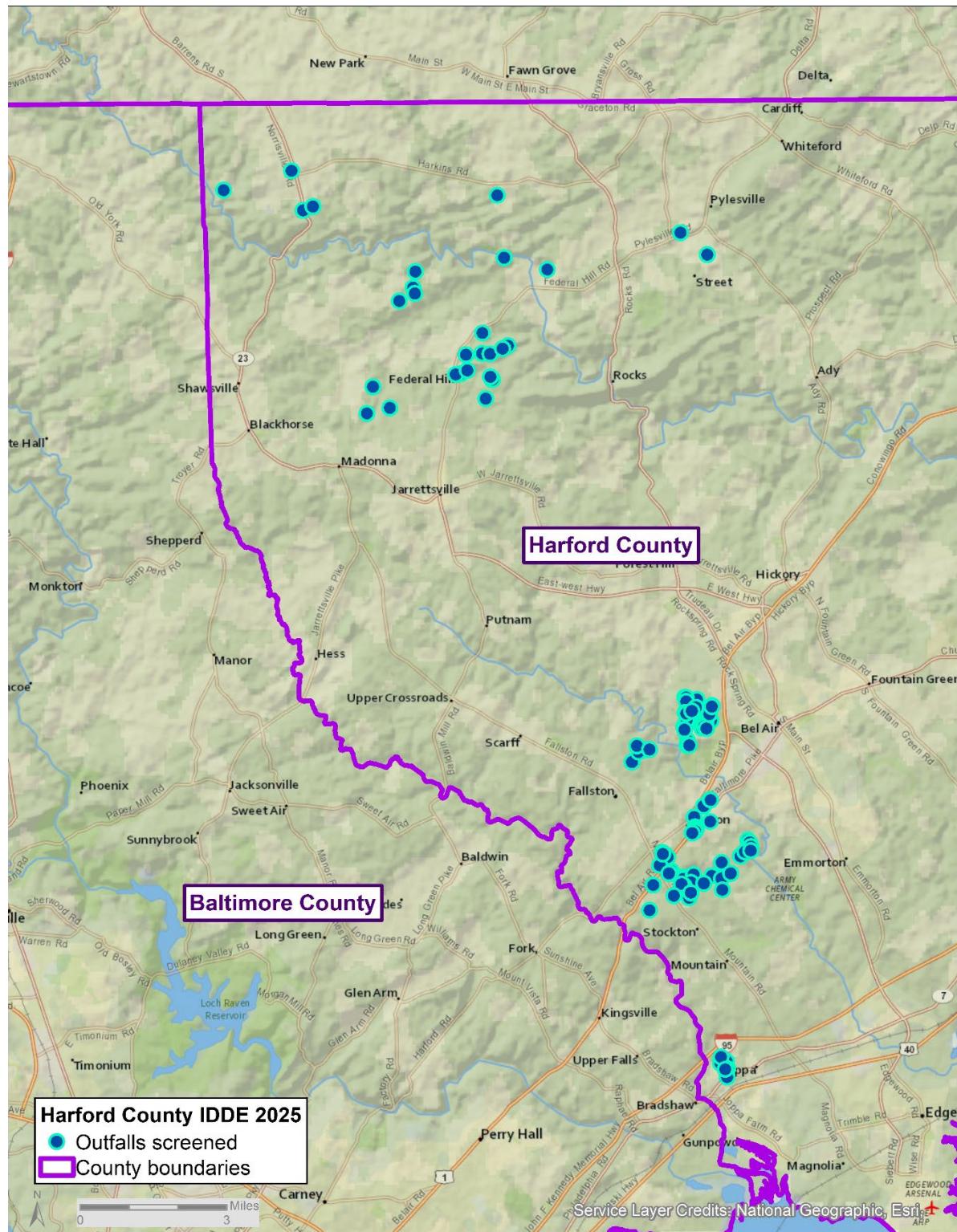


Figure D-1. Outfalls successfully screened during the 2024–2025 reporting year

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APPENDIX E

**MAPS OF PARCELS INSPECTED
DURING THE 2024–2025 PERIOD**



Appendix E

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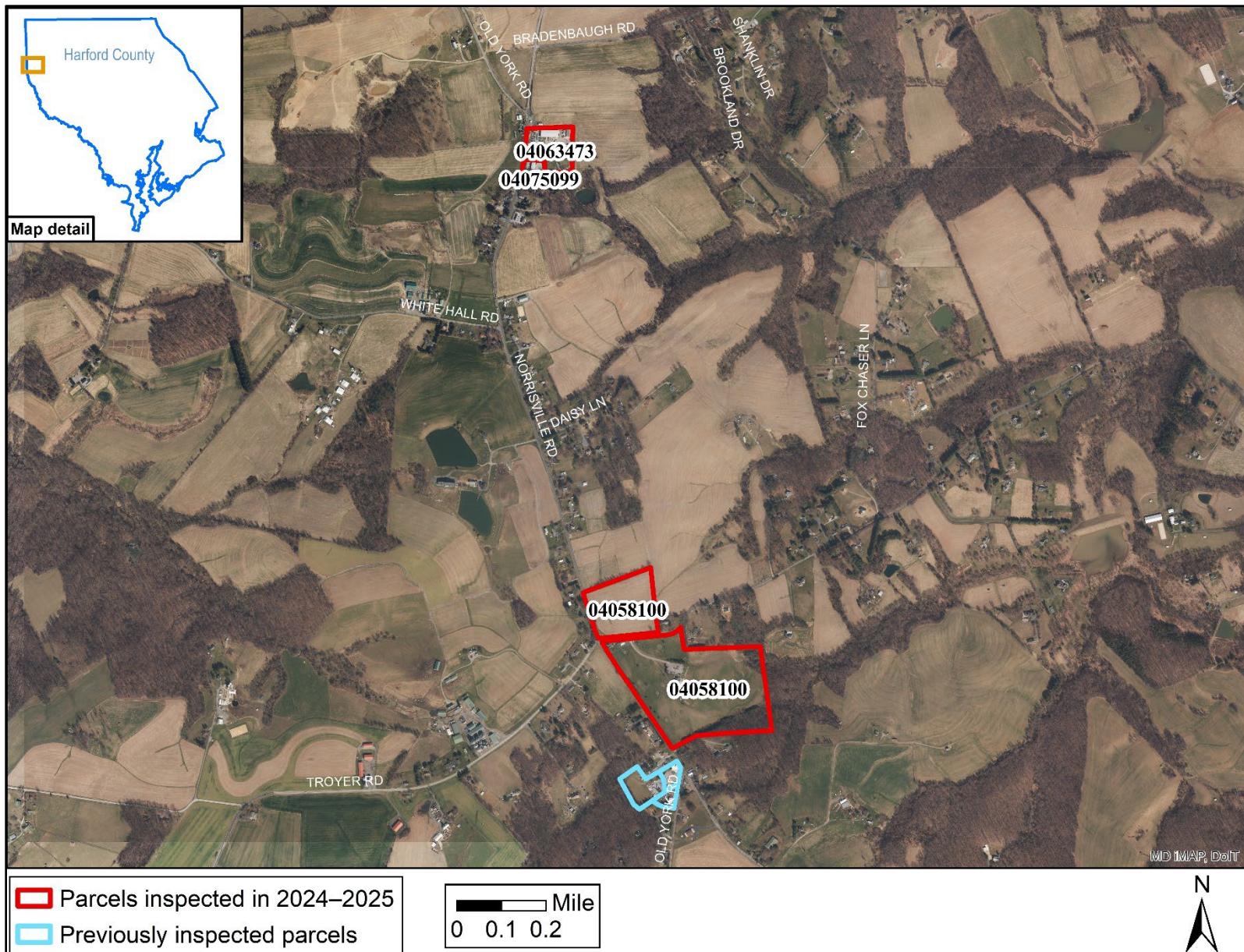


Figure E-1. The parcels inspected in the area of Norrisville Road near White Hall Road for the 2024–2025 reporting year

E-4

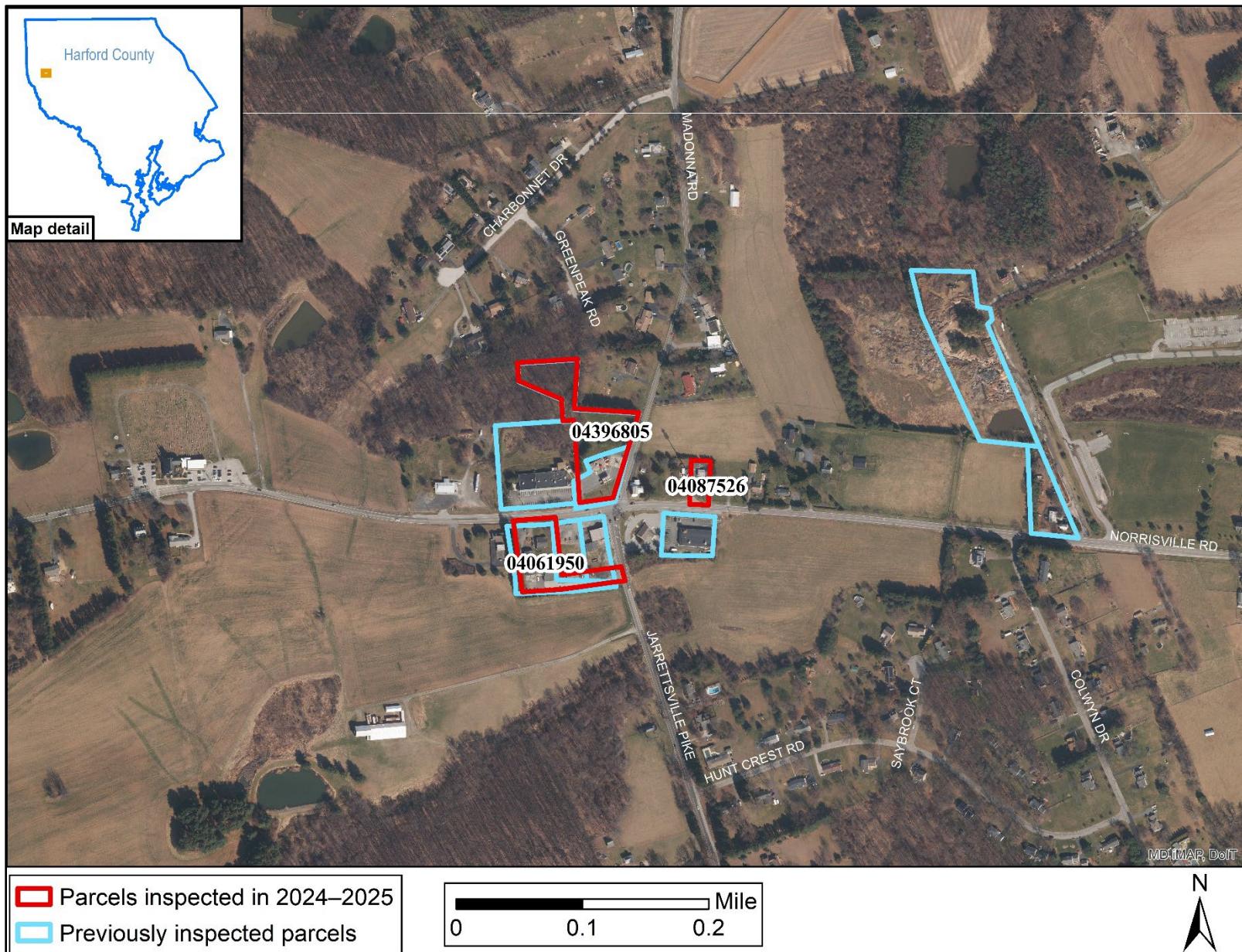


Figure E-2. The parcels inspected in the area of Norrisville Road and Madonna Road-for the 2024–2025 reporting year

E-5

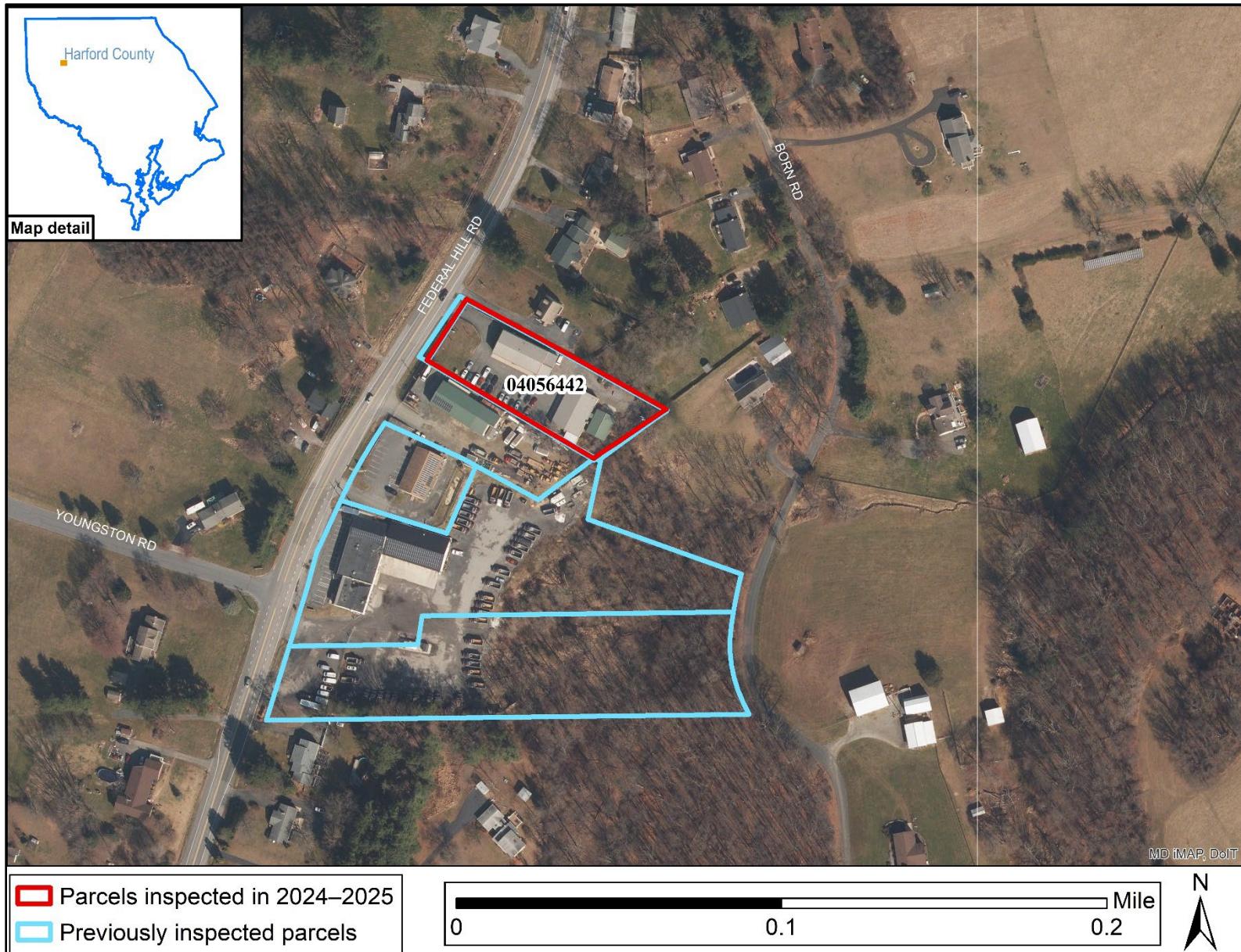


Figure E-3. The parcels inspected in the area of Federal Hill Road-near Born Road for the 2024–2025 reporting year

E-6

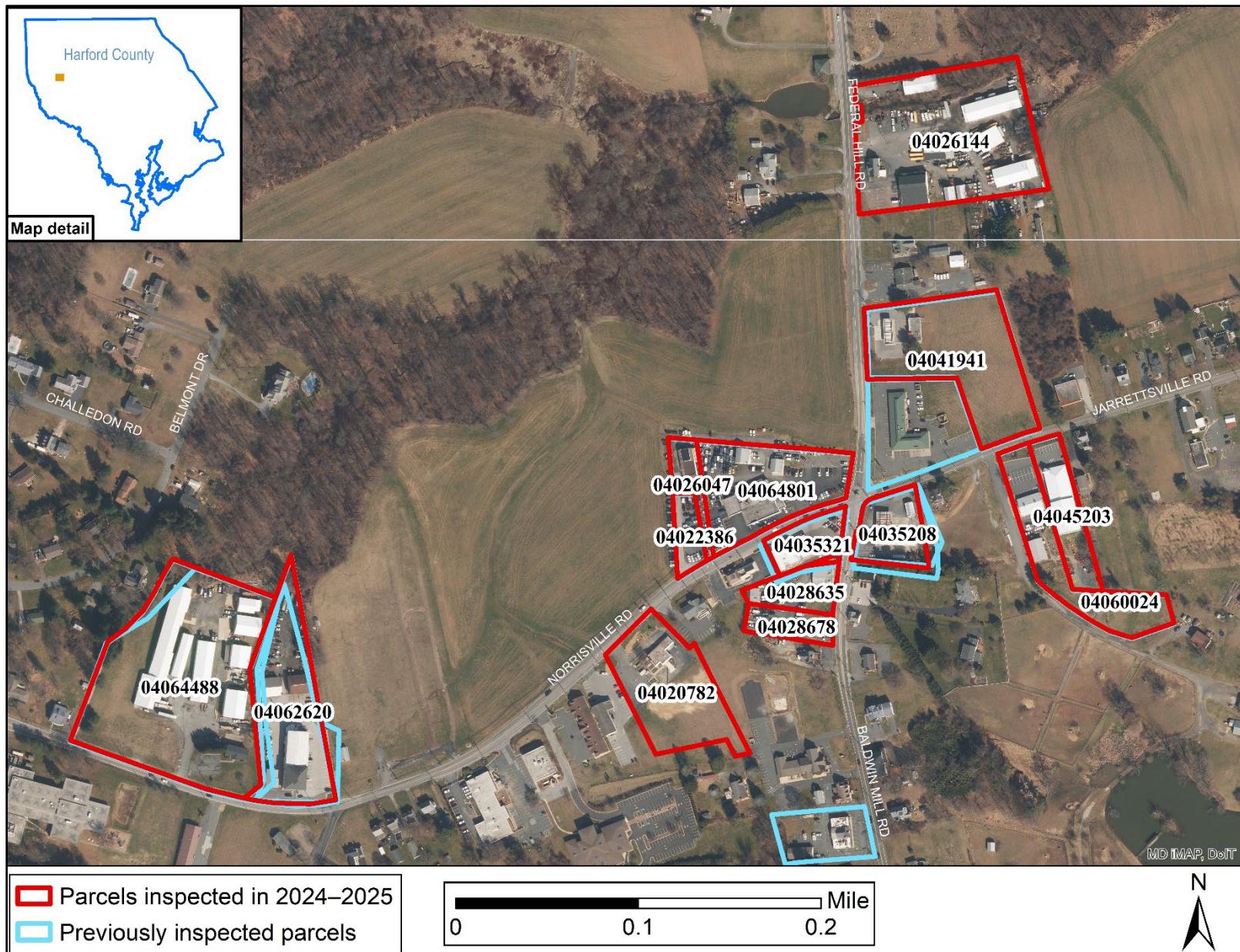


Figure E-4. The parcels inspected in the area of Jarrettsville Road and Federal Hill Road for the 2024–2025 reporting year

E-7

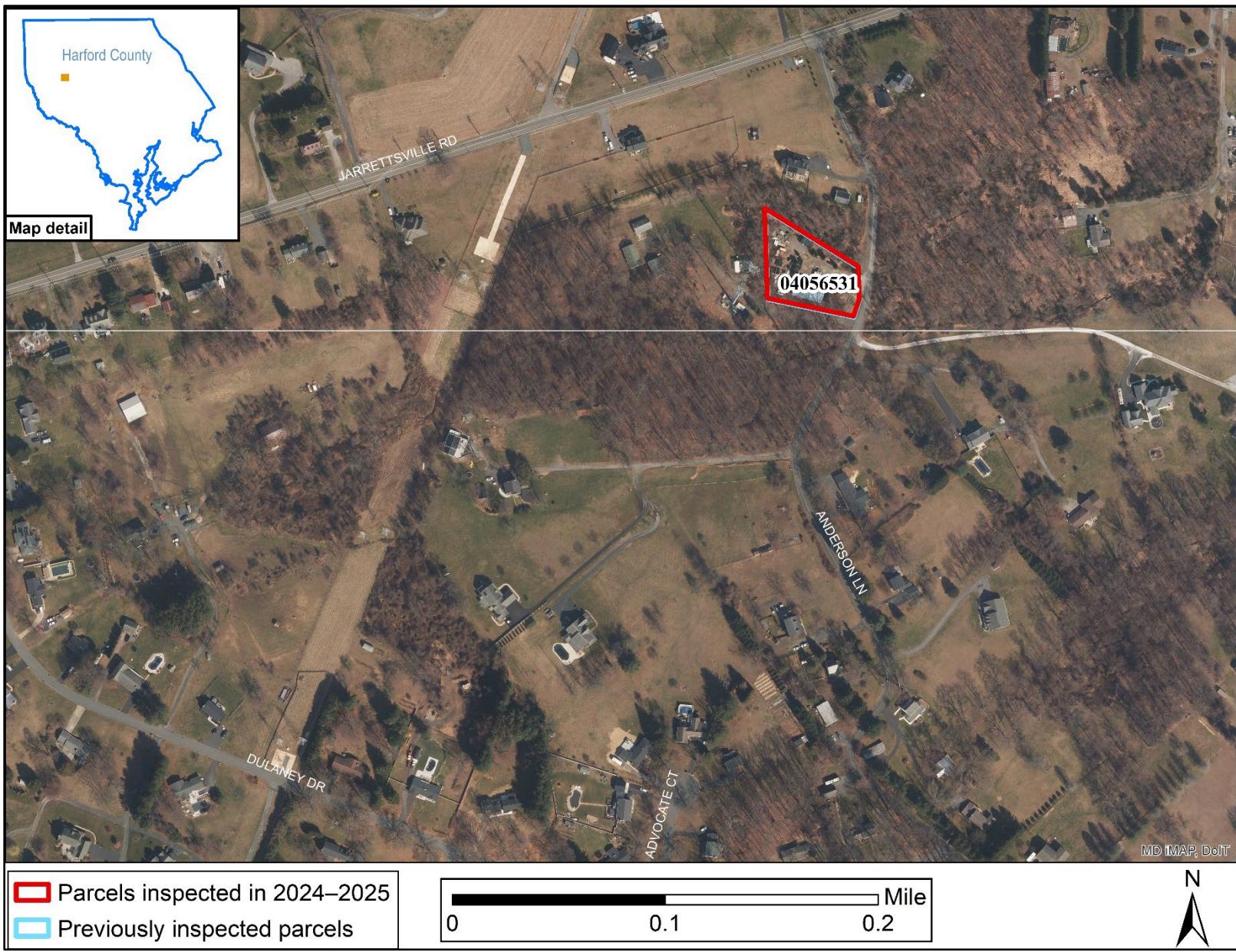


Figure E-5. The parcels inspected in the area of Anderson Lane for the 2024–2025 reporting year

E-8

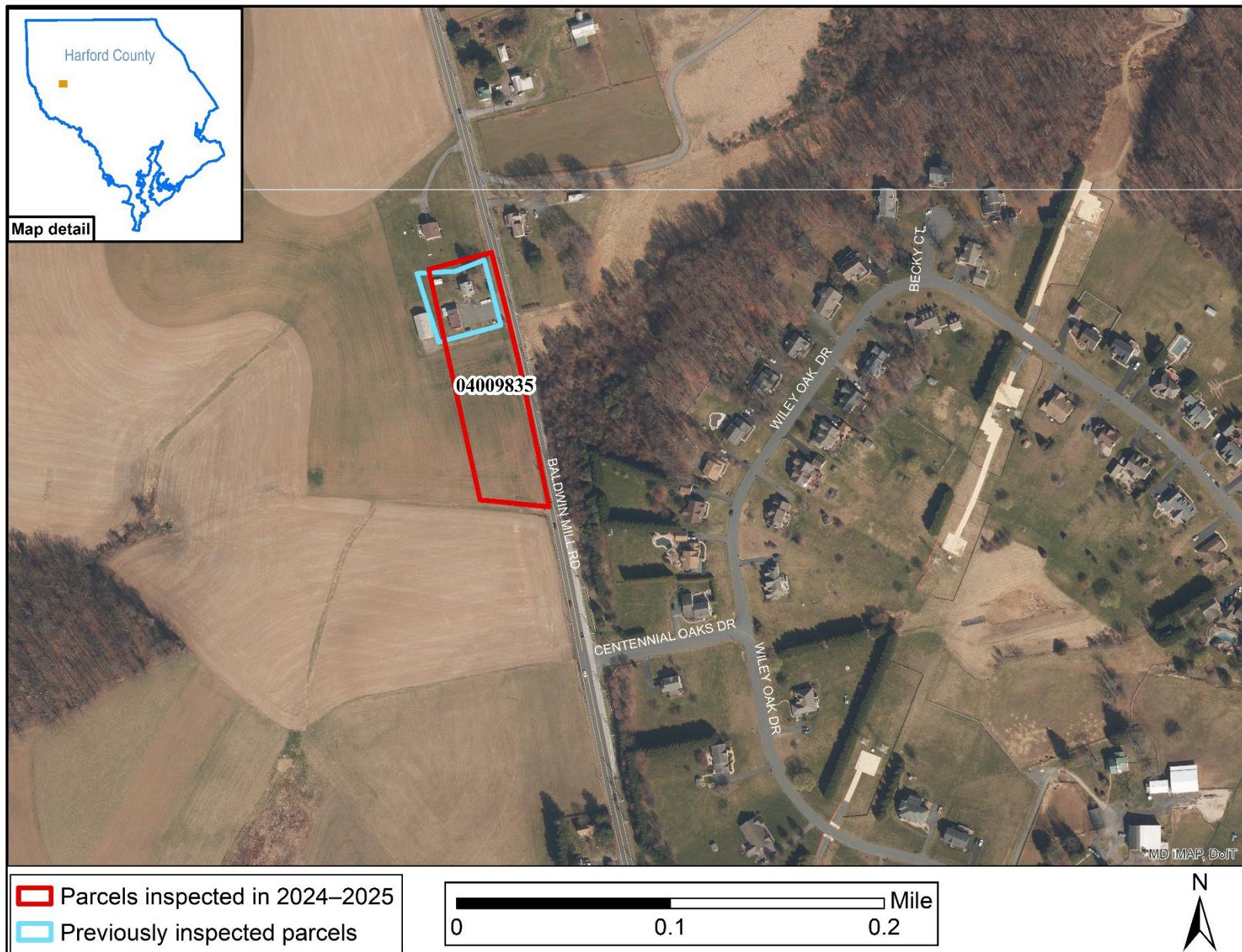


Figure E-6. The parcels inspected in the area of Baldwin Mill Road area for the 2024–2025 reporting year

E-9

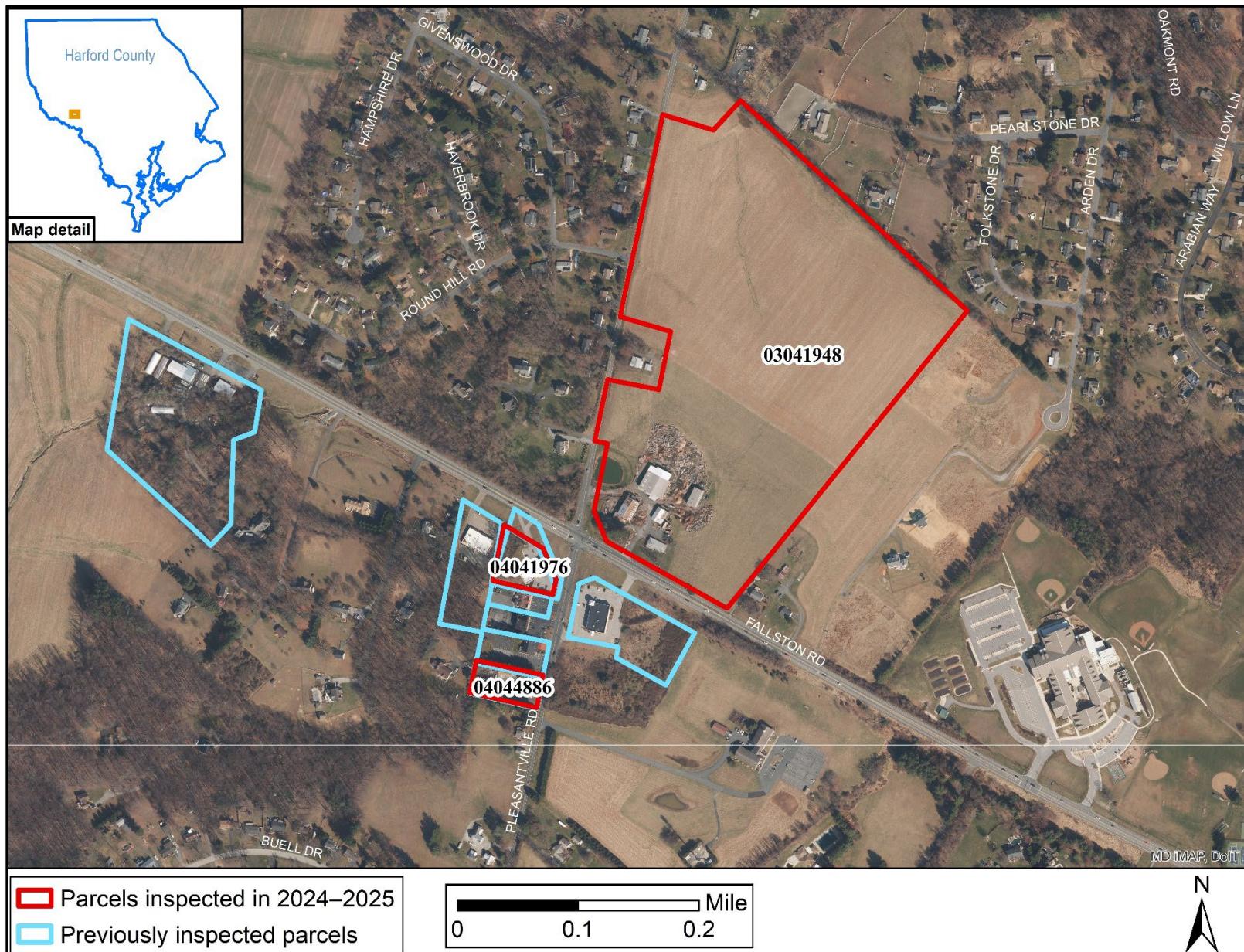


Figure E-7. The parcels inspected in the area of Pleasantville Road and Fallston Road area for the 2024–2025 reporting year

E-10

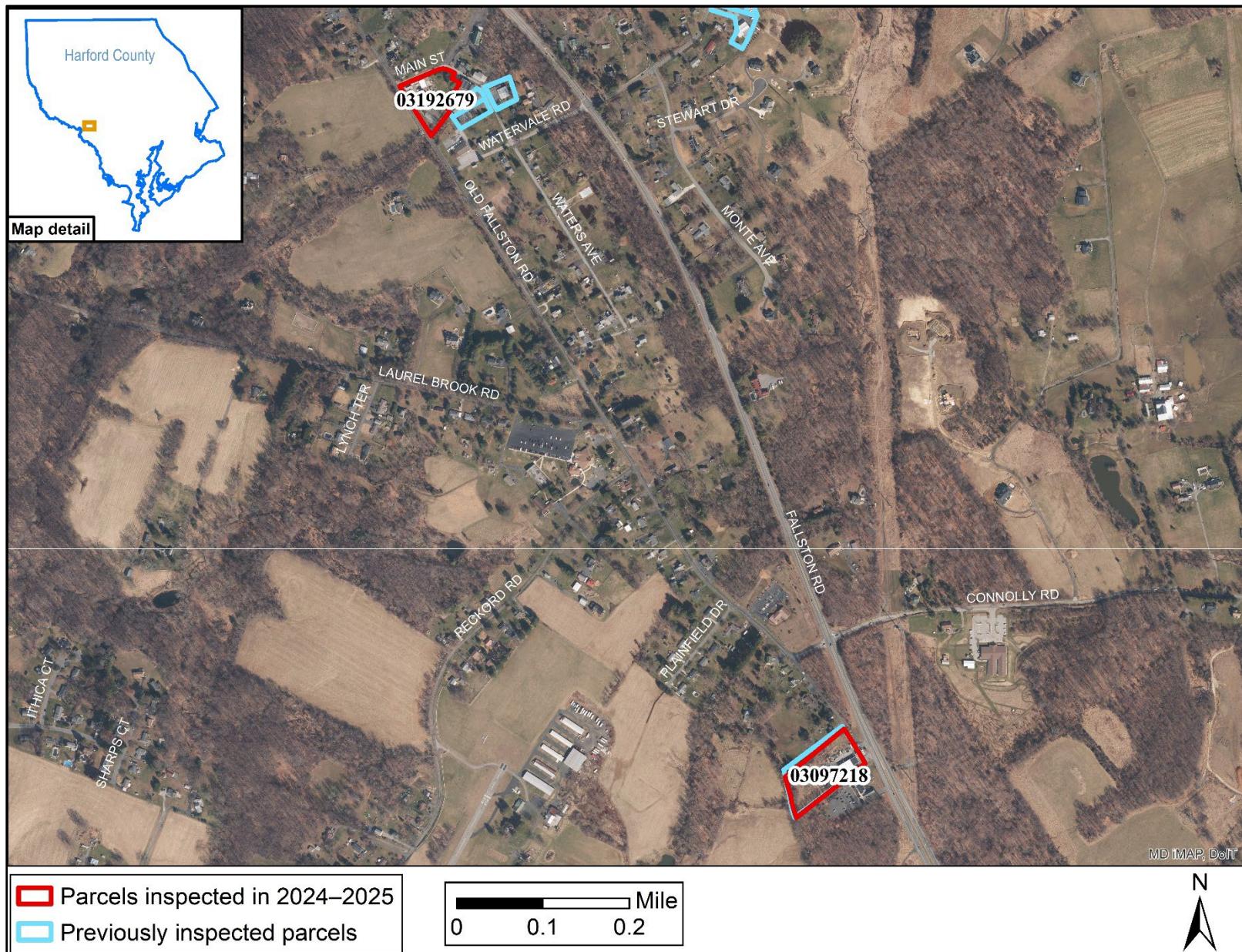


Figure E-8. The parcels inspected in the area of Fallston Road and Old Fallston Road for the 2024–2025 reporting year

E-11

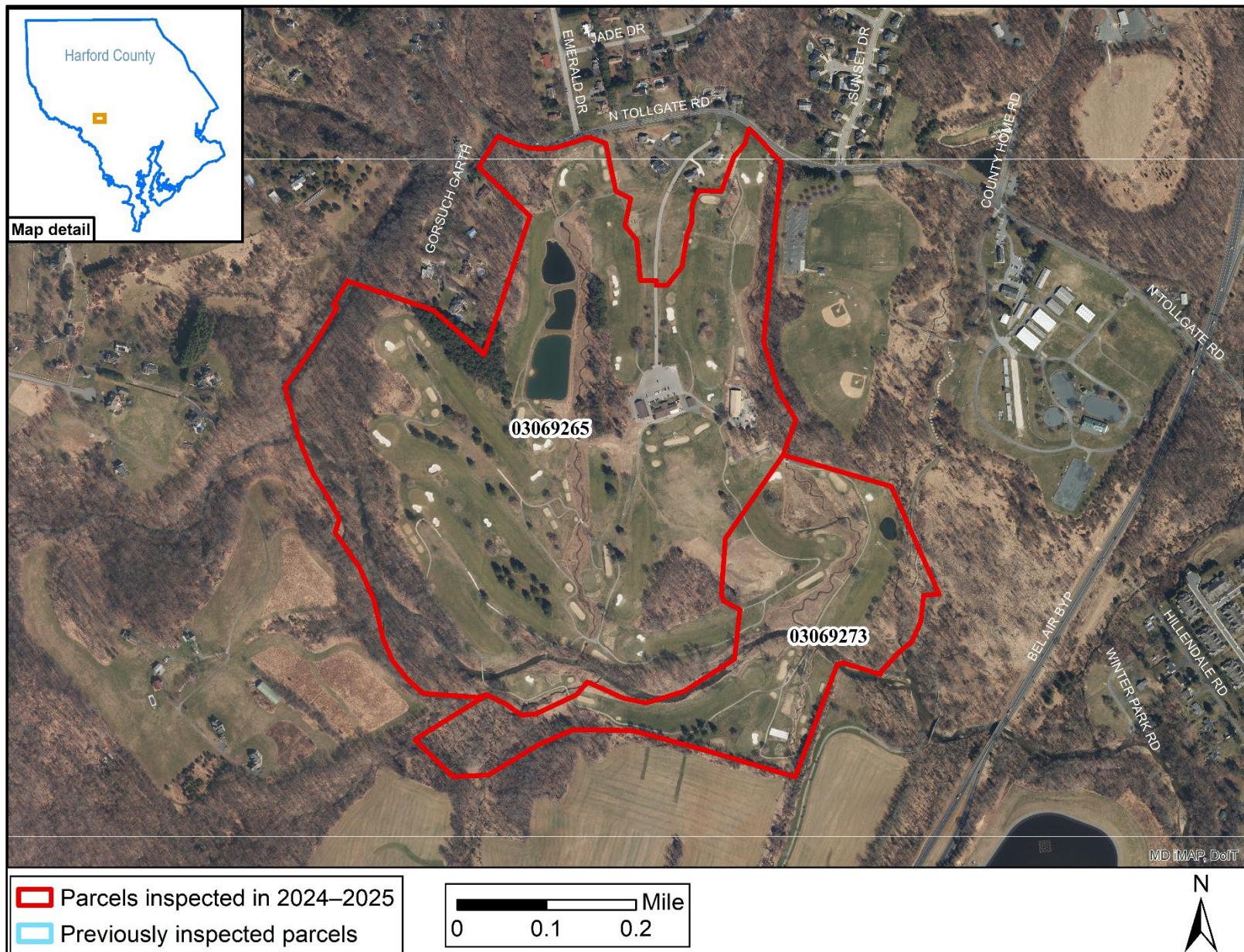


Figure E-9. The parcels inspected in the area of North Tollgate Road for the 2024–2025 reporting year

E-12

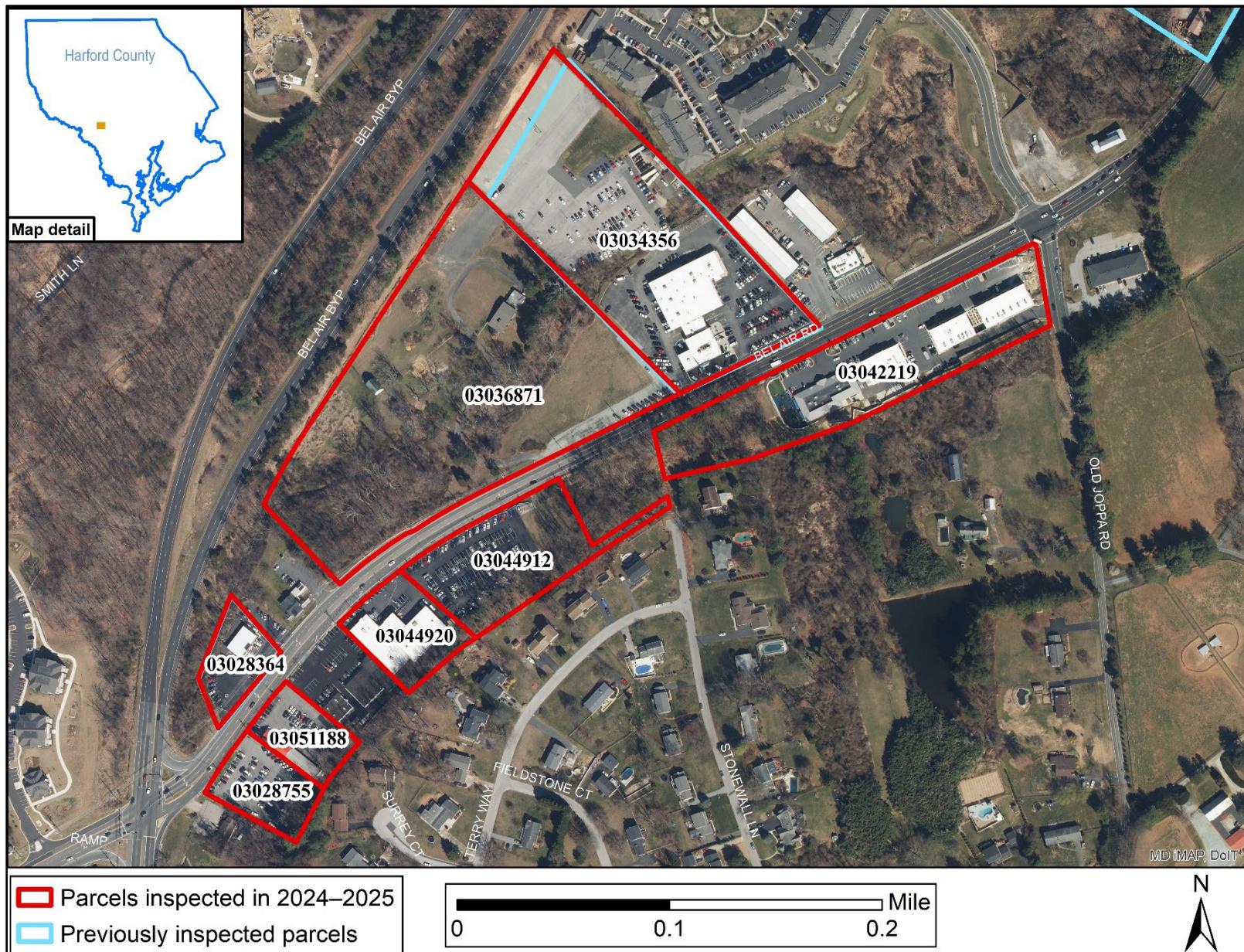


Figure E-10. The parcels inspected in the area of Belair Road and Bel Air Bypass for the 2024–2025 reporting year

E-13

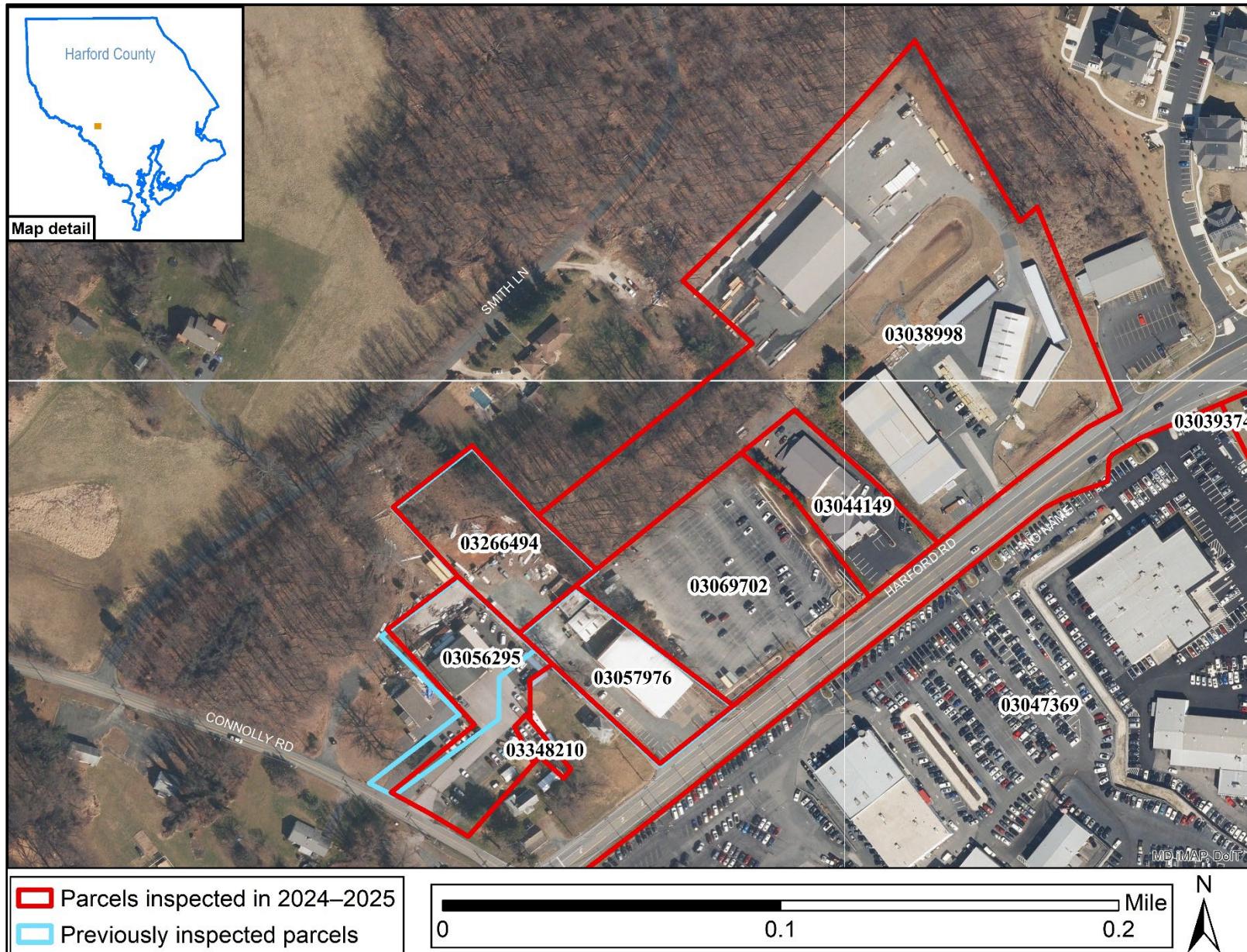


Figure E-11. The parcels inspected in the area of Harford Road near Connolly Road for the 2024–2025 reporting year

E-14

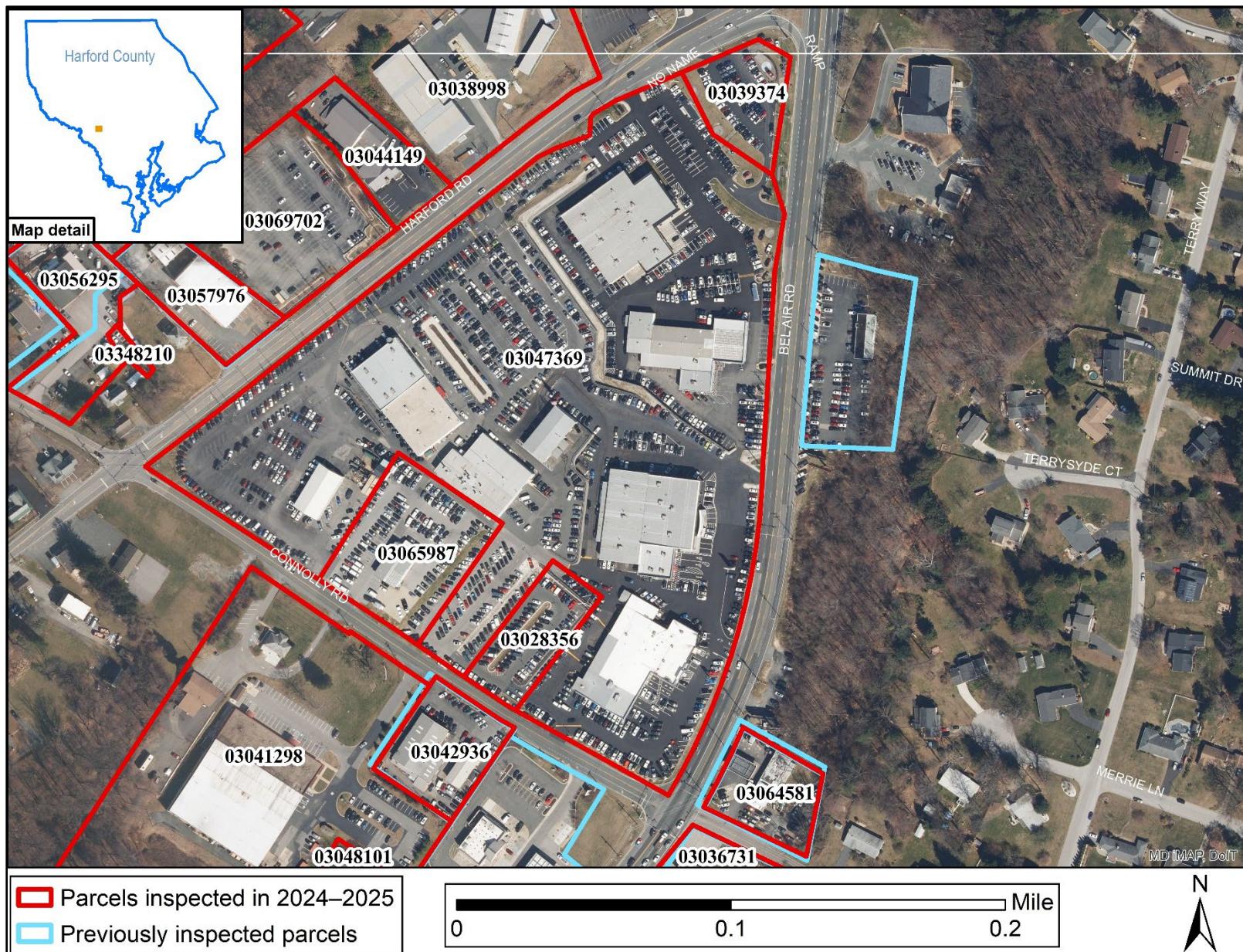


Figure E-12. The parcels inspected in the area of Harford Road and Connolly Road (east) for the 2024–2025 reporting year

E-15

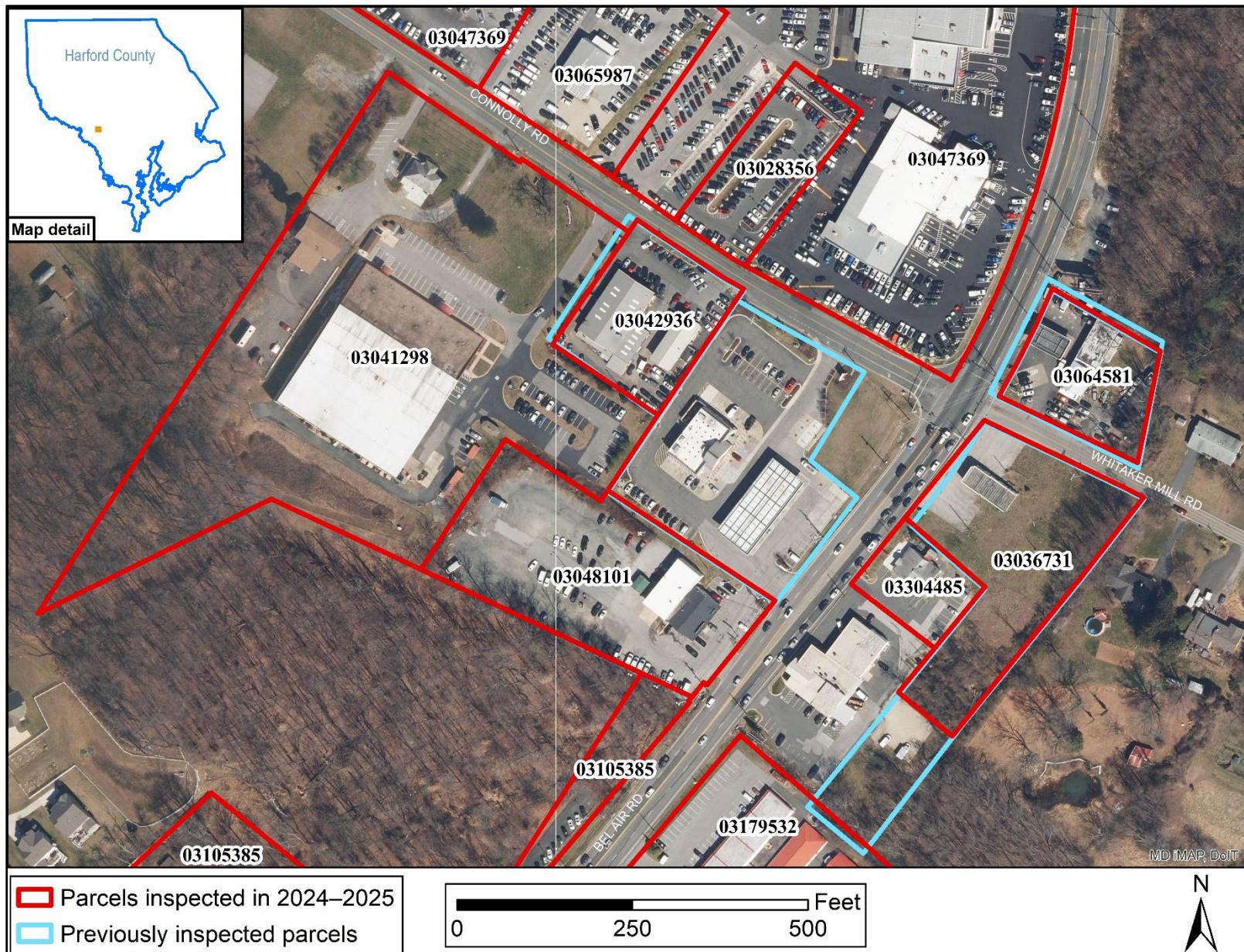


Figure E-13. The parcels inspected in the area of Belair Road and Connolly Road (south) for the 2024–2025 reporting year

E-16

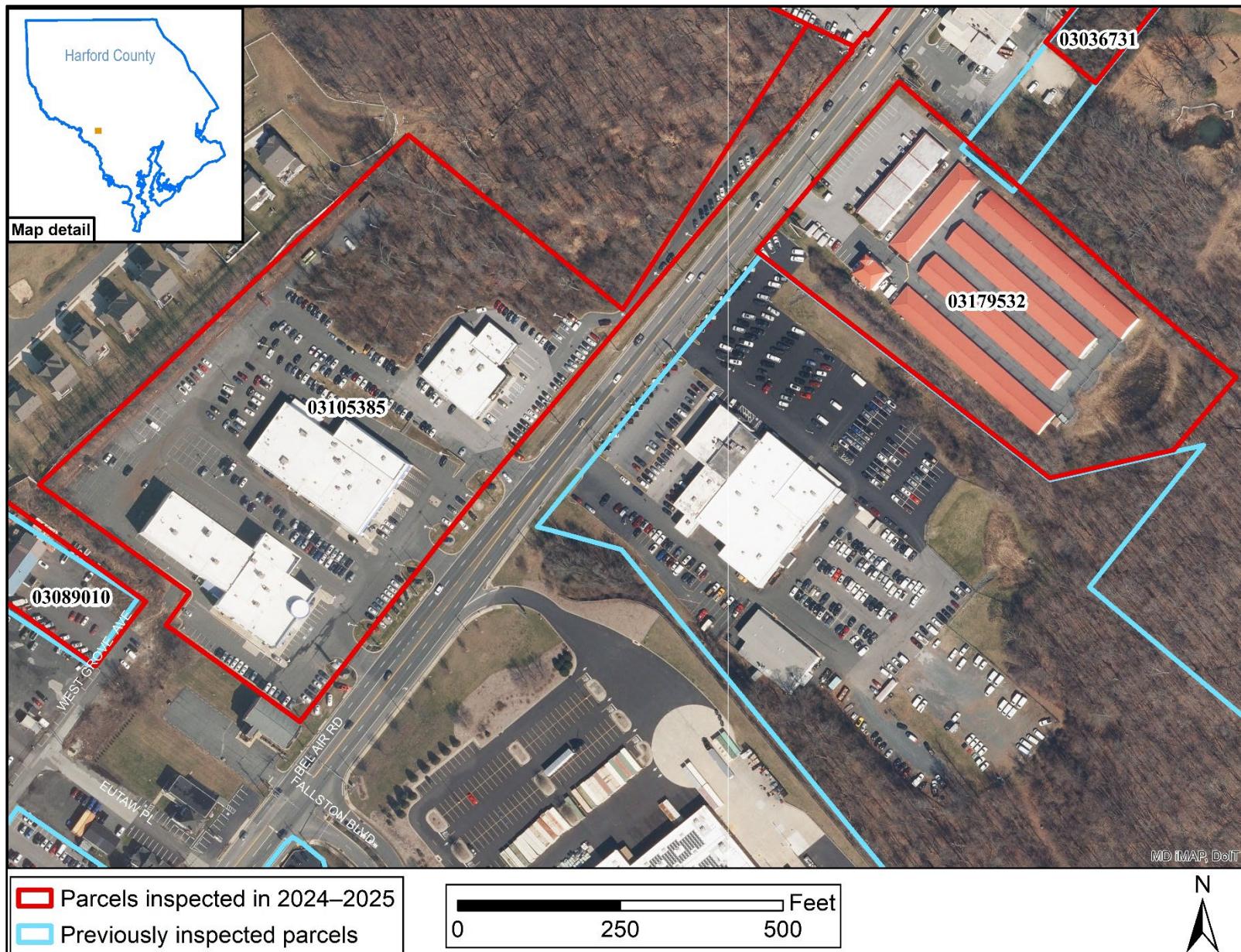


Figure E-14. The parcels inspected in the area of Belair Road (1600 to 1800) for the 2024–2025 reporting year

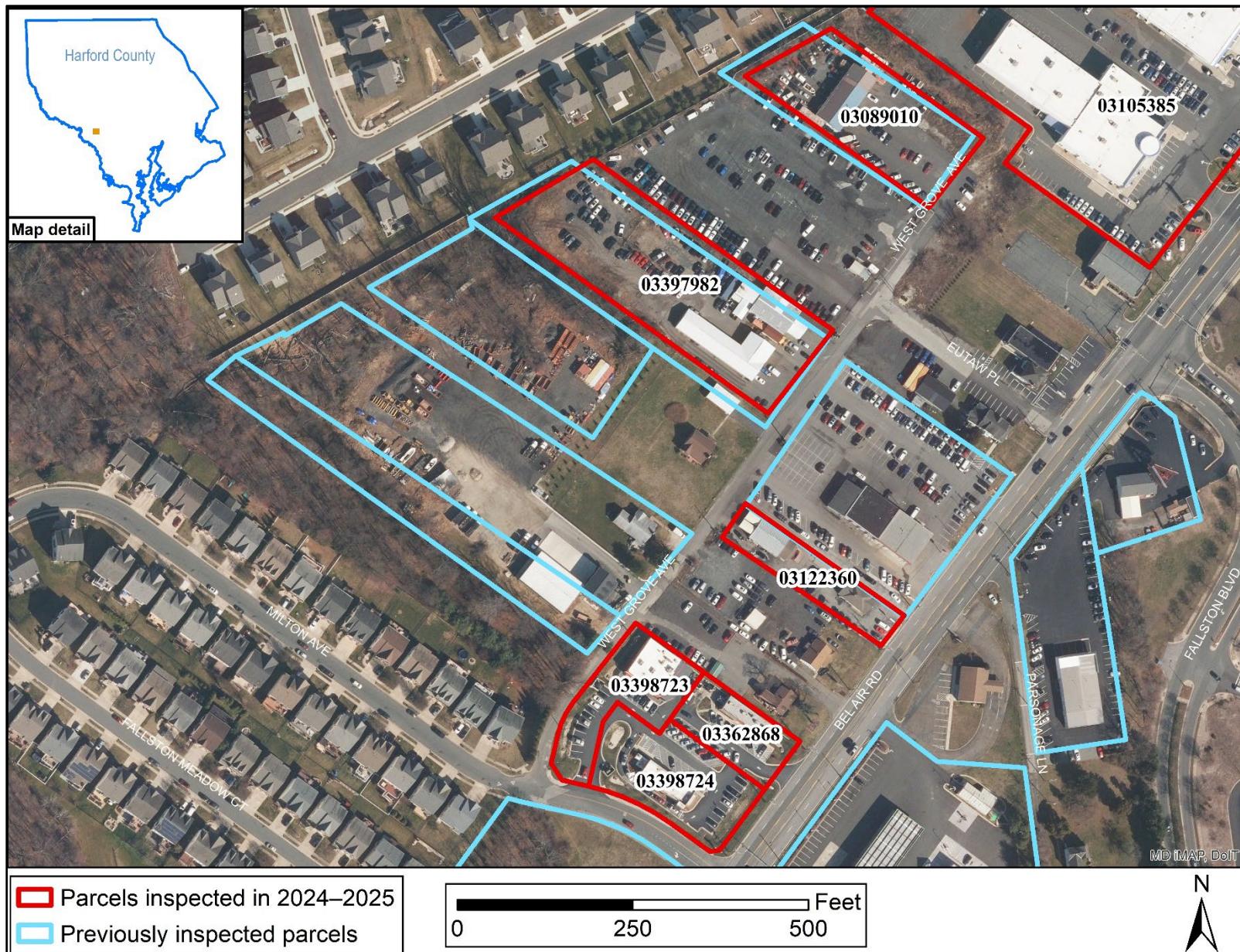


Figure E-15. The parcels inspected in the area of Belair Road and Fallston Blvd. for the 2024–2025 reporting year

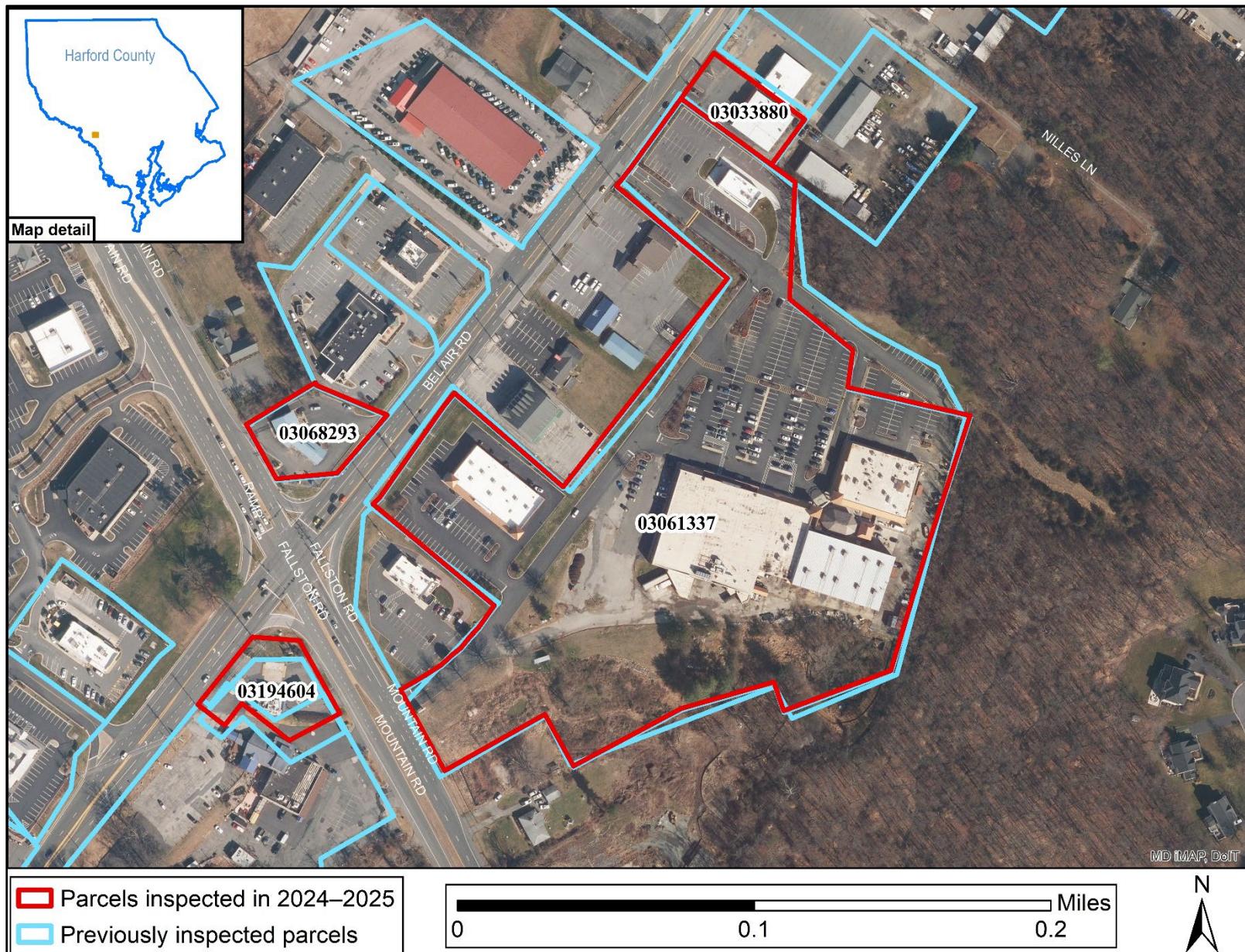


Figure E-16. The parcels inspected in the area of Belair Road and Mountain Road for the 2024–2025 reporting year

E-19

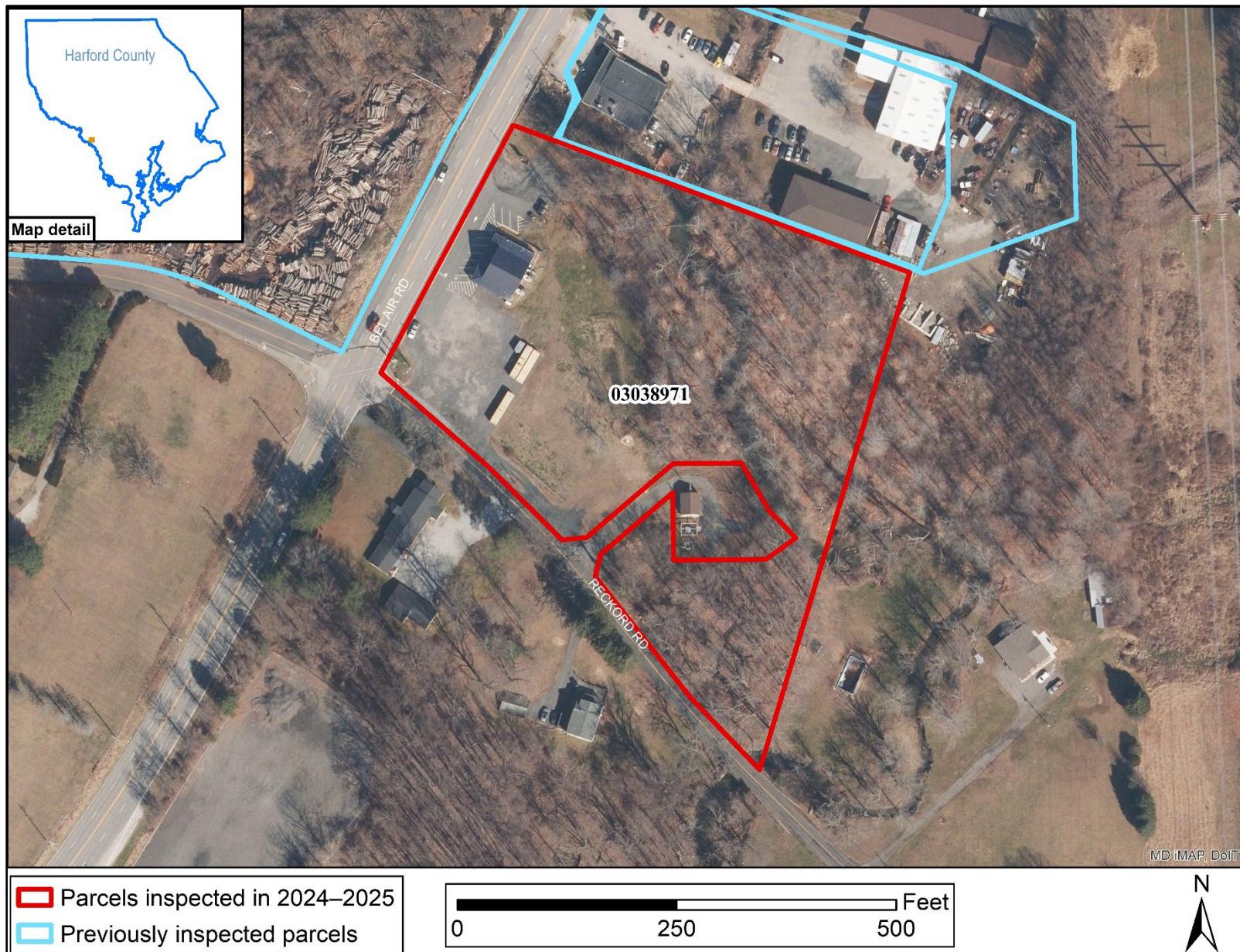


Figure E-17. The parcels inspected in the area of Belair Road and Reckord Road for the 2024–2025 reporting year

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Harford County Department of Emergency Services

Special Operations Team

Report of Incidents from 07/01/2024 to 08/31/2024
LEPC Meeting



Incident #	Response Code	Date	Location	Box #	Description	Watershed	Entered Waterway
2024161581	LEVEL C	07/04/2024	2 S BOND ST	300-1	SPECIAL OPERATIONS DISPATCHED FOR A BROKEN FREON LINE/LEAK.COMMAND 3 ON SCENE AND DETERMINED THE LEAK TO BE A BROKEN WATER PIPE AND CREWS WORKED TO	ATKISSON RESERVIOR	N/A
2024163358	ASST FIRE CO	07/06/2024	4010 ANDREW CT	400-1	2116 HRS. C15-1 (SIMPSON) ALERTED TO CONTACT CHIEF 3 ON HIS CELL PHONE. 2118 HRS. C15-1 CONTACTS CHIEF 3 AND WAS TOLD THAT CO.3 IS ON THE SCENE OF	BYNUM RUN	N/A
2024169447	MEDICAL	07/13/2024	MCCALLS FERRY RD - HOLTWOOD RD	YORK	SPECIAL OPERATIONS DISPATCH TO STANDBY WITH RESOURCES FOR AN ACTIVE ASSAILANT INCIDENT IN YORK COUNTY UNITS STAGED AT STATION 62 UNTIL RELEASED BY CAR	LOWER SUSQUEHANNA RIVER	N/A
2024169531	LEVEL C	07/13/2024	4001 E BAKER AVE	406-2	SPECIAL OPERAIONS DISPATCHED FOR WATER RESCUE DISPATCHED FOR INJURED SUBJECT IN WATER.A411 ARRIVED WITH RE4 AND ADVISED SUBJECT OUT OF WATER NO NEED	BUSH RIVER	N/A
2024174980	LEVEL C	07/20/2024	938 QUARRY RD	556-1	DISPATCHED FOR A SWIFTWATER RESCUE SW UNITS DIVERTED TO LAPIDUM LANDING. CH158 LOCATED MISSING PERSON ON LAND IN PARKING LOT.BOX PLACED IN SERVICE BY	LOWER SUSQUEHANNA RIVER	N/A
2024175053	ASST FIRE CO	07/20/2024	1230 OLD PYLESVILLE RD	601-1	SPECIAL OPERATIONS IN CAD NEVER DISPATCHED FOR CALL.	BROAD CREEK	N/A
2024176551	NOTIFICATION	07/22/2024	1319 PERRYMAN RD	215-1	NOTIFICATION ONLY FOR CONFINED SPACE ENTRYS	BUSH RIVER	N/A
2024176737	INVESTIGATION	07/22/2024	5 BEL AIR SOUTH PKY	333-1	RECEIVED A CALL IN REFERENCE TO THE SHOPRITE STORE AT THE ABOVE LOCATION FINDING A "GAS CAN" IN ONE OF THEIR SHOPPING CARTS THAT WAS LOCATED AT A SHOPPING	WINTERS RUN	N/A
2024177813	LEVEL C	07/23/2024	955 TOP VIEW DR	826-2	SPECIAL OPERATIONS DISPATCHED FOR A BLDG COLLAPSE CO8 UNITS ARRIVED ON SCENE. CREWS DETERMINED WATER LEAK IN HOME WAS NOT CAUSING ANY STRUCTURAL COMPROMISE	WINTERS RUN	N/A
2024177882	LEVEL C	07/23/2024	118 BUSH RIV	N/A	SPECIAL OPERATIONS DISPATCHED TO ASST APG WITH FLARE SIGHTINGS APG CONTACTED NATIONAL GUARD AND THEY ADVISED THEY WERE TESTING FLARES IN THE AREA.UNITS	BUSH RIVER	N/A
2024177922	LEVEL C	07/23/2024	1350 CHESAPEAKE BAY	570-S	SPECIAL OPERATIONS DISPATCHED TO ASSIST VESSEL WITH DEAD MOTOR IN BACK CHANNEL CREWS AND BOATS ASSISTED IN MOVING AIRBOAT 5 FROM LOW WATER AREA INTO DEEPER	LOWER SUSQUEHANNA RIVER	N/A
2024178242	NOTIFICATION	07/24/2024	1319 PERRYMAN RD	215-1	Clorox during CSpace entrys, notification only	BUSH RIVER	N/A
2024180135	NOTIFICATION	07/26/2024	1648 CANDLEWOOD CT	806-1	SPECIAL OPERATIONS NOTIFICATION ONLY	GUNPOWDER RIVER	N/A
2024180716	NOTIFICATION	07/27/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A
2024181878	NOTIFICATION	07/28/2024	3999 SAINT CLAIR BRIDGE RD	799-1	SPECIAL OPERATIONS NOTIFICATION ONLY	DEER CREEK	N/A
20248-0649	NOTIFICATION	07/28/2024	1319 PERRYMAN RD	206-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A
2024182269	NOTIFICATION	07/29/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A
2024182291	LEVEL C	07/29/2024	PULASKI HWY - OAKINGTON RD	201-2	DISPATCHED FOR A CHEMICAL CLOUD.CO2 UNITS ON SCENE NOTHING FOUND	LOWER SUSQUEHANNA RIVER	N/A
2024182833	ASST FIRE CO	07/29/2024	2157 N COOPER RD	925-1	SPECIAL OPERATIONS CREW CHIEF REQUESTED TO RESPOND TO A VEHICLE IN STREAM ASSISTED CH9 WITH CAR IN STREAM. CONCERN WAS IMPENDING RAIN AND STREAM CAUSING	CONOWINGO DAM - SUSQUEHANNA RIVER	N/A
2024183086	NOTIFICATION	07/30/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A

2024184035	NOTIFICATION	07/31/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A
2024184972	NOTIFICATION	08/01/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A
2024185836	NOTIFICATION	08/02/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY	BUSH RIVER	N/A
2024186210	ASST FIRE CO	08/02/2024	2622 CHURCHVILLE RD	122-1	SPECIAL OPERATIONS ASSISTED LOCAL FIRE COMPANY WITH A SMOKE INVESTIGATION BC15 IN AREA WHEN CALL WAS DISPATCHED. PERSONNEL INVESTIGATED SMOKE IN THE AREA.	DEER CREEK	N/A
2024186238	ASST FIRE CO	08/02/2024	ABINGDON RD - WOODSPRING DR	409-1	SPECIAL OPERATIONS ASSISTED LOCAL FIRE COMPANY CH15-7 IN AREA WHEN CALL FOR MVC DISPATCHED. PERSONNEL ASSISTED EMS.	BUSH RIVER	N/A
2024187117	ASST FIRE CO	08/03/2024	2408 WHITEFORD RD	601-1	SPECIAL OPERATIONS ASSISTED LOCAL FIRE COMPANY SOP15 ON SCENE WHEN FIRE COMPANY ALERTED FOR AUTO FIRE. PERSONNEL ASSISTED FIRE COMPANY	BROAD CREEK	N/A
2024189382	LEVEL C	08/06/2024	305 ALTHEA CT	334-1	Alerted for deck collapse with one trap, on scene Co 3 units found deck had lean collapse, subject rode deck down and was sitting next to sliding door	ATKISSON RESERVIOR	N/A
2024189588	LEVEL C	08/06/2024	1100 FALLING BRANCH RD	1097-1	Alerted from subject with ankle injury on trails, SO units staged at St Mary Church parking lot. Chief 15-6 went to lower parking lot and was made operations	DEER CREEK	N/A
2024190179	LEVEL C	08/07/2024	1427 GUNSTON RD	326-1	SPECIAL OPERATIONS DISPATCHED TO A WORKING PINNED IN A TREE 30FT IN THE AIR. BAVFC WAS ON SCENE OF A INJURED WORKER WHO HAD A TREE FALL ON THEIR LEG. ON	DEER CREEK	N/A
2024191642	NOTIFICATION	08/09/2024	1319 PERRYMAN RD	N/A	Clorox during entry in CSpace	BUSH RIVER	N/A
2024191696	LEVEL C	08/09/2024	SUSQUEHANNA RIVER/AMTRAK RR - IN WATER NORTH OF BRIDGE	570-N	Received report of a barge drifting up river toward the I95 bridge. SW15-1 and SW15-3 staged at parking ride on 155 while C15-8 investigated. C15-8 checked	LOWER SUSQUEHANNA RIVER	N/A
2024192980	LEVEL C	08/10/2024	971 REDFIELD RD	321-1	Alerted to assisted Co 3 with a collapse in apartment, Ceiling collapse on second floor, people on 3rd floor unable to get out, no report of injuries.	BYNUM RUN	N/A
2024193012	LEVEL C	08/10/2024	1221 BRASS MILL RD	420-1	Alerted with units from Co4 for a subject that mixed bleach and ammonia in a bucket in bathroom. Command 4 held it to units on scene (RE4,DC15,C15-7,C15-8)	BUSH RIVER	N/A
2024193420	LEVEL C	08/11/2024	2300 ARTHUR WOODS DR	412-1	SPECIAL OPERATIONS REQUESTED FOR DRONES AND DELSAR LISTENING DEVICE. DIVCH15 AN DCH15-2 RESPONDED WITH DRONES. SOP16 RESPONDED WITH COLLAPSE 15. TEAM	ATKISSON RESERVIOR	N/A
2024193685	INVESTIGATION	08/11/2024	41 GUNPOWDER RIVER	870-1	RESPONDED FOR A REPORTED GASOLINE SPILL INTO THE GUNPOWDER RIVER AT THE MARINER POINT BOAT LAUNCH RAMP. UPON ARRIVAL, COMPLAINT ADVISED THAT A BOAT PUMPED	GUNPOWDER RIVER	N/A
2024194171	NOTIFICATION	08/12/2024	1319 PERRYMAN RD	215-1	Notification of confined space tank entry for cleaning and inspection. User: CLARENCE ROSS - HAZMAT Team 08/12/2024 10:35:18	BUSH RIVER	N/A
2024194542	LEVEL C	08/12/2024	CONOWINGO RD - KALMIA RD	317-1	SPECIAL OPERATIONS DISPATCHED FOR ROPE RESCUE AT SCENE OF MVCC15-8 ON SCENE OF MVC, SUBJECT THROWN FROM MOTORCYCLE INTO WOODED AREA 30FT BELOW ROADWAY. CO3	DEER CREEK	N/A
2024195087	NOTIFICATION	08/13/2024	1319 PERRYMAN RD	215-1	ON 8-13-2024 AT 0639 HOURS CLOROX SAFETY NOTIFIED SPECIAL OPS THAT TEY WERE MAKING A TANK ENTRY/CONFINED SPACE FOR CLEANING AND INSPECTION. NOTIFICATION	BUSH RIVER	N/A
2024195102	ASST FIRE CO	08/13/2024	1511 HIGHVUE CT	1316-1	SPECIAL OPERATIONS PERSON IN AREA WHEN EMS REQUESTED MANPOWER ASSIST. CH153 ASSISTED EMS WITH MANPOWER	ATKISSON RESERVIOR	N/A
2024195965	NOTIFICATION	08/14/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY CLOROX PERSONNEL DOING CONFINED SPACE ENTRIES FROM 0700 -1200 TODAY	BUSH RIVER	N/A
2024197970	ASST FIRE CO	08/16/2024	1001 ALDINO STEPNEY RD	204-2	SPECIAL OPERATIONS IN AREA TO ASSIST FIRE COMPANY DVCH15 IN AREA OF CALL WHEN DISPATCHED. ARRIVED INVESTIGATING, OCCUPANT ADVISED HE WAS COOKING AND	BUSH RIVER	N/A
2024200108	NOTIFICATION	08/19/2024	1504 SCARLET OAK CT	354-1	RECEIVED NOTIFICATION FROM DISPATCH THAT AN UNKNOWN COMPANY HAS SPILLED APPROX. 4 GALLONS OF HYDRAULIC FLUID AND THAT A CLEAN UP CONTRACTOR IS EN ROUTE	ATKISSON RESERVIOR	N/A
2024202135	LEVEL C	08/21/2024	319 OLD JOPPA RD	343-1	SPECIAL OPERATIONS DISPATCHED FOR ANIMAL ASSISTANCE SPECIAL OPS RESPONDED TO ASSIST VETRANARIAN WITH A HORSE THAT COULD NOT STAND. CREW ASSISTED OWNER	ATKISSON RESERVIOR	N/A
2024202520	ASST FIRE CO	08/21/2024	3607 GRIER NURSERY RD	613-1	SPECIAL OPERATIONS IN AREA OF AUTO FIRE. SPECIAL OPERATIONS PERSONNEL IN AREA OF AUTO FIRE AND ASSISTED FIRE COMPANY	DEER CREEK	N/A
2024203006	ASST FIRE CO	08/22/2024	FALLSTON RD - BALDWIN MILL RD	1311-2	SPECIAL OPERATIONS PERSONNEL IN AREA OF MVC PERSONNEL ASSISTED EMS CREW AND FIRE CREWS ON THE SCENE OF A MVC.	LITTLE GUNPOWDER FALLS	N/A

2024204376	LEVEL C	08/23/2024	2127 WHITEFORD RD	602-1	SPECIAL OPERATIONS DISPATCHED FOR ANIMAL RESCUETEAM WAS REQUESTED TO ASSIST A VETRINARIAN WITH AN HORSE THAT WAS DOWN.FIRST ARRIVING PERSONNEL MET	BROAD CREEK	N/A
2024204705	LEVEL C	08/24/2024	2 EMMORTON RD S	836-1	SPECIAL OPERATIONS DISPATCHED TO ASSIST STATION 12UNITS PLACED INSERVICE PRIOR TO RESPONSE	BUSH RIVER	N/A
2024207316	LEVEL C	08/27/2024	DURHAM RD - CHARLES ST	706-1	SPECIAL OPERATIONS DISPATCHED FOR MVC WITH WATER RESCUESPECIAL OPERATIONS DISPATCHED AND UNITS AND PERSONNEL RESPONDED. COMMAND ON SCENE ADVISING	ATKISSON RESERVIOR	N/A
Row Count: 48							



Harford County Department of Emergency Services

Special Operations Team

Report of Incidents from 09/01/2024 to 10/31/2024
LEPC Meeting



Incident #	Response Code	Date	Location	Box #	Description	Watershed	Entered Waterway
2024211881	NOTIFICATION	09/01/2024	2901 DALTON BEVARD RD	1399-5	SPECIAL OPERATIONS NOTIFICATION ONLYEMS CALL IN STATE PARK	LITTLE GUNPOWDER FALLS	N/A
2024213075	LEVEL C	09/03/2024	1418 PHILADELPHIA RD	804-1	SPECIAL OPERATIONS DISPATCHED FOR A CONFINED SPACE RESCUE WHILE ENROUTE COMMAND 8 ADVISED THEY HAD A INJURED PERSON IN A FOUNDATION OF A BLDG WITH ACCESS	WINTERS RUN	N/A
2024213863	NOTIFICATION	09/04/2024	450 N JUNIATA ST	501-1	SPECIAL OPERATIONS NOTIFICATION ONLYMVC CAR INTO BLDG. COMMAND 5 REQUESTED BLDG INSPECTOR.	LOWER SUSQUEHANNA RIVER	N/A
2024215774	LEVEL C	09/06/2024	555 JOPPA FARM RD	818-1	SPECIAL OPERATIONS DISPATCHED FOR MCI ACTIVE ASSAILANT INCIDENT PERSONNEL ENROUTE TO RESPOND WITH MCI TRAILER (EMS HANDLED) AND THEN COMMAND BUS (HCSO)	GUNPOWDER RIVER	N/A
2024218580	NOTIFICATION	09/10/2024	1804 EDGEWOOD RD	407-1	NOTIFICATION OF VEHICLE INTO BUILDING WITH PEOPLE TRAPPED. CALL CANCELED BY POLICE. POSSIBLE ROBBERY ATTEMPT User: JOHN SIMPSON - HAZMAT Team 09/11/2024	WINTERS RUN	N/A
2024225320	INVESTIGATION	09/18/2024	419 CONCORD ST	503-1	Received email from Coast Guard reporting a sheen in water from boat at 419 Concord St, NRC#1411171. Chief 15-8 was sent to investigate the report, on	UPPER CHESAPEAKE BAY	N/A
2024230182	ASST FIRE CO	09/24/2024	3137 TROYER RD	714-1	ASSIST MEDIC 71 ON A CARDIAC ARREST. PAT. NOT IN ARREST UPON ARRIVAL OF MEDIC UNIT. MEDIC UNIT DID REQUEST A UNIT TO CONTINUE FOR MAN POWER. U15 WAS CLOSEST	LITTLE GUNPOWDER FALLS	N/A
2024231017	NOTIFICATION	09/25/2024	ADY RD - GIBSON RD	316-2	NOTIFICATION ONLY FOR SPECIAL OPERATIONS CREW CHIEF NOTIFIED OF A FUEL SPILL UNDER 100 GALLONS NO RESPONSE HANDLED BY FIRE COMPANY	DEER CREEK	N/A
2024236745	NOTIFICATION	10/02/2024	231 N PHILADELPHIA BLVD	212-1	SPECIAL OPERATIONS NOTIFICATION CAR INTO BUILDING - CAR STRUCK BOLLARDS NO NEED FOR RESPONSE.	SWAN CREEK	N/A
2024237760	INVESTIGATION	10/03/2024	401 CONCORD ST	503-1	Received a report from USCG NRC#1412721, someone had reported that there was fuel in the water up against the bulkhead at Log Pond Marina. Chief 15-8	UPPER CHESAPEAKE BAY	5.00 Gallon(s)
2024238519	ASST FIRE CO	10/04/2024	89.1 JFK HWY NB	95-85N	Co 5 was alerted for fuel spill from a saddle tank on I95. DC5 on see with one saddle tank leaking requested SO for pump off. Chief 15-8 on scene was	UPPER CHESAPEAKE BAY	N/A
2024240331	INVESTIGATION	10/06/2024	101 FAIRWAY CT	504-1	1451 HRS. C-15-1 (SIMPSON) WAS ALERTED TO CONTACT DISPATCH. DISPATCH HAD A REQUEST FROM MDE MOLNER TO CONTACTED ON A POSSIBLE INCIDENT IN HAVRE DE GRACE.	LOWER SUSQUEHANNA RIVER	N/A
2024242188	LEVEL C	10/08/2024	315 WATERTONS WAY	801-1	SPECIAL OPERATIONS DISPATCHED TO ASSIT FIRE COMPANY WITH A ELECTRIC VEHICLE FIRE. ON ARRIVAL CREWS INVESTIGATED A FORD LIGHTNING TRUCK THAT CAUGHT FIRE	LITTLE GUNPOWDER FALLS	N/A
2024244156	ASST FIRE CO	10/11/2024	2105 ROCK SPRING RD - ROCK SPRING RD	381-1	CHIF15-2 ON SCENE OF A AUTOFIRE THAT WAS EXTENDING INTO THE BANK. ASSISTED CO3 UNITS.	BYNUM RUN	N/A
2024244450	LEVEL C	10/11/2024	295 MT OLIVET CHURCH RD	YORK	SPECIAL OPERATIONS DISPATCHED FOR A FARM RESCUE, SUBJECT WITH HIS HAND CAUGHT IN A COMBINE. UNITS PLACED IN SERVICE PRIOR TO ARRIVAL BY COMMAND	OUT OF COUNTY	N/A
2024245790	LEVEL C	10/13/2024	3616 WOODHOLME DR	707-1	Co 7 on scene of a leak from fuel oil tank in basement of a home, requested assisted from Spec Ops. On scene we found 250gal tank in basement (Charlie)	BYNUM RUN	N/A
2024245938	NOTIFICATION	10/13/2024	1309 SHERIDAN PL	321-1	SPECIAL OPERATIONS NOTIFICATION ONLY CO3 ON SCENE OF A WHITE POWDER IN BLDG. FD DETERMINED IT TO BE EXTINGUISHER POWDER NO NEED FOR HAZMAT.	BYNUM RUN	N/A
2024247572	LEVEL C	10/15/2024	1316 S PHILADELPHIA BLVD	215-1	SPECIAL OPERATIONS DISPATCHED FOR A FUEL SPILL, DIESEL FUEL LEAKING FROM SADDLE TANK. CO2 UNITS ON SCENE AND STARTED SPILL CONTROL. CH15-8 ARRIVED AND	BUSH RIVER	N/A

2024248340	ASST FIRE CO	10/16/2024	1452 W JARRETTSVILLE RD	703-1	SPECIAL OPS. ALERTED FOR A SUBJECT STUCK IN A RAISED MAN LIFT AND UNABLE TO LOWER TO THE GROUND. COMMAND 7 HELD ASSIGNMENT TO THE RESCUE AND TOWER,	DEER CREEK	N/A
2024252706	ASST FIRE CO	10/21/2024	3248 CONOWINGO RD	928-1	SPECIAL OPERATIONS DISPATCHED FOR THE DRONES AND ESV TO A LARGE PILE OF TREES ON FIRE.CREWS FLEW DRONES TO CAPTURE VIDEO AND PICTURES OF THE FIRE FOR	DEER CREEK	N/A
2024252719	NOTIFICATION	10/21/2024	10 BOX HILL SOUTH PKY	410-1	SPECIAL OPERATIONS NOTIFICATION ONLY REPORTED OIL SPILL FROM REPUBLIC TRASH TRUCK. CONTRACTOR ON SCENE CLEANING UP SPILL	WINTERS RUN	N/A
2024256371	LEVEL C	10/25/2024	3504 BACK POINTE CT	403-1	SPECIAL OPERATIONS DISPATCHED AT THE REQUEST OF COMMAND 4 FOR A E-BIKE FIRE. UNITS RESPONDED AND FOUND A E-BIKE EXTINGUISHED ON THE GROUD. REPORTED THAT	WINTERS RUN	N/A
2024257033	LEVEL C	10/26/2024	JOPPA FARM RD - BARKSDALE RD	808-1	CO8 ON THE SCENE OF A OIL SPILL. JUG OF OIL FELL OFF VEHICLE AND INTO ROADWAY. SPECIAL OPERATIONS DISPATCHED. ON ARRIVAL CREWS USED TWO BAGS OF SPAGH	GUNPOWDER RIVER	N/A
2024257102	INVESTIGATION	10/26/2024	FOUNTAIN GLEN DR - AVIEMORE PL	321-1	SPECIAL OPERATIONS DISPATCHED TO INVESTIGATE OIL/WATER SPILL ABT ABOVE LOCATION. ON ARRIVAL PERSONNEL FOUND A WET AREA ON THE ROAD, PERSONNEL PLACED WHITE	BYNUM RUN	N/A
2024258271	LEVEL C	10/28/2024	76.7 JFK HWY NB	95-74N	SPECIAL OPERATIONS DISPATCHED FOR A PUMP OFF BY COMMAND 8. ON ARRIVAL CREWS FOUND A DODGE PICKUP TRUCK ON ITS ROOF WITH DIESEL FUEL LEAKING FROM THE FILL	WINTERS RUN	N/A
2024259266	NOTIFICATION	10/29/2024	1319 PERRYMAN RD	215-1	Was notified of a spill of 5 gallons of oil, used stay dri and had clean it up. User: BRIAN REMINES - Hazmat 10/29/2024 09:38:40	BUSH RIVER	N/A

Row Count: 26



Harford County Department of Emergency Services

Special Operations Team

Report of Incidents from 11/01/2024 to 12/31/2024
LEPC Meeting



Incident #	Response Code	Date	Location	Box #	Description	Watershed	Entered Waterway
2024263703	LEVEL C	11/03/2024	45 SWEET POTATO LN	CECIL	SPECIAL OPERATIONS DISPATCHED FOR A REOP RESCUE, SUBJECT WITH SEIZURES IN A TREEHARFORD COUNTY CANCELED PRIOR TO ARRIVAL BY COMMAND 8	OUT OF COUNTY	N/A
2024268603	ASST FIRE CO	11/09/2024	BALDHILL LN - SILVER LN	915-1	ASSIST COMMAND 9 WITH RECON OF INCIDENT SCENE USING THE DRONE ASSIGNED TO CHIEF 15-2. FLEW 1 MISSION AND REPORTED FINDINGS TO COMMAND 9. THEN STOOD BY	CONOWINGO DAM - SUSQUEHANNA RIVER	N/A
2024269503	ASST FIRE CO	11/10/2024	1034 OLD PYLESVILLE RD	611-1	assisted M62 and Whiteford vfc with a single veicle mvc with rescue. HCSO on scene	BROAD CREEK	N/A
2024269941	NOTIFICATION	11/10/2024	907 REVOLUTION ST	510-1	SPECIAL OPERATIONS NOTIFICATION REPORTED SILICA SPILLED ON ROADWAY DURING RAIN.CHIEF 153 MADE CONTACT WITH COMPANY AND ADVISED IT WAS CLEANED UP BY	LOWER SUSQUEHANNA RIVER	N/A
2024270840	LEVEL C	11/12/2024	81.9 JFK HWY NB	95-80N-1	0743 HRS. SPECIAL OPS TEAM IS ALERTED TO RESPOND TO ASSIST CO.4 WITH A TRACTOR TRAILER ON FIRE WITH LITHIUM BATTERIES CARGO..CHIEF 15-1 SIMPSON EN ROUTE	BUSH RIVER	0.00 Gallon(s)
2024270857	LEVEL C	11/12/2024	FALLSTON RD - WATERVALE RD	1305-1	0657 HRS. SPECIAL OPS. TEAM ALERTED TO ASSIST CO.13 WITH A FUEL SPILL FROM A TRACTOR TRAILER INVOLVED IN A MVC. 0657 HRS. CHIEF 15-1 AND SOP71 EN ROUTE	ATKISSON RESERVIOR	N/A
2024271268	ASST FIRE CO	11/12/2024	721 HOOKERS MILL RD	400-1	SPECIAL OPERATIONS PERSONNEL ON SCENE OF MVC.PERSONNEL ASSIED FD ON SCENE	BYNUM RUN	N/A
2024271777	LEVEL C	11/13/2024	76.5 JFK HWY SB	95-80S	SPECIAL OPS ASSISTED ON SCENE OF MVC INVOLVING A TRACTOR TRAILER WITH A RUPTURED PASSENGER SIDE SADDLE TANK. PERSONNEL APPLIED ABSORBENT'S TO THE SPILL	WINTERS RUN	N/A
2024273608	NOTIFICATION	11/15/2024	3610 CONOWINGO RD	922-1	SPECIAL OPERATIONS NOTIFICATION FOR A JUNK YARD ON FIRE.DIVCH15 RESPONDED AND INVESTIGATED SEVERAL DRUMS AWAY FROM THE FIRE. NO IMMEDIATE HAZARDS.	DEER CREEK	N/A
2024275979	LEVEL C	11/18/2024	218 BYNUM RIDGE RD	353-1	SPECIAL OPERATIONS DISPATCHED FOR LUMBER TRAILER AND PERSONNEL CO3 DISPATCHED FOR RESCUE OF A SUBJECT PINNED BETWEEN TRUCK AND LIFTGATE AFTER A VEHICLE	BYNUM RUN	N/A
2024278709	LEVEL C	11/21/2024	1120 CHESAPEAKE DR	504-1	SPECIAL OPERATIONS DISPATCHED FOR PERSON IN DISTRESS IN THE WATER NEAR CHESAPEAKE DR. DR. ASSISTED CO 5 BOAT WITH SUBJECT WALKING TO ISLAND UNINJURED.THEN	LOWER SUSQUEHANNA RIVER	N/A
2024279425	LEVEL C	11/22/2024	112 PYLESVILLE RD	691-1	SPECIAL OPERATIONS DISPATCHED FOR A MURATIC ACID SPILL CREWS PLACED PINK PADS ON GROUND UNDER LEAK IN PIPING. POWER SHUTOFF TO PUMP. CREWS CHECKED DRAINS	BROAD CREEK	N/A
2024281948	NOTIFICATION	11/25/2024	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION OF A OIL SPILL BEING CLEANED UP CLOROX ENVIRONMENTAL MANAGER CONTACTED 911 ABOUT A SPILL AND CONTRACTOR ON SITE TO CLEAN	BUSH RIVER	N/A
2024282054	INVESTIGATION	11/25/2024	800 HICKORY DR	215-1	Received email from MJOC about report of a spill of diesel from pumps at 800 Hickory Dr, Aberdeeen, NRC incident #1417314. The caller was Anonymous reported	N/A	N/A
2024287574	LEVEL C	12/02/2024	450 SUSQUEHANNA RIVER	970-N	SPECIAL OPERATIONS DISPATCHED FOR AN OIL SPILL WHILE ENROUTE THIS CALL WAS RECEIVED BY MJOC AROUND NOON WITH NOTIFICATION THAT THE SPILL WAS CONTAINED	LOWER SUSQUEHANNA RIVER	1.00 Gallon(s)
2024289040	ASST FIRE CO	12/04/2024	2210 EDINBURG CT	1300-2	Assist company 13 with gas leak at residence.	WINTERS RUN	N/A
2024293357	ASST FIRE CO	12/09/2024	703 CHURCHVILLE RD	302-1	SPECIAL OPERATIONS PERSONNEL REQUESTED TO ASSIST EMS ON A MCI INCIDENT CAR 3 APPOINTED EMS BRANCH DVCH 15 APPOINTED FIRE OPERATIONS BRANCH PERSONNEL	BYNUM RUN	N/A

2024293529	N/A	12/09/2024	4168 MADONNA RD	709-1	PICK UP TRUCK LEAKING OIL FROM FAULTY OIL FILTER. CHIEF 15-1 SIMPSON ASSISTED CHIEF 7-2 HOSKINS WITH WHITE MATS TO CONTAIN SPILL. TOW COMPANY WILL CLEAN	DEER CREEK	N/A
2024293934	LEVEL C	12/10/2024	703 CHURCHVILLE RD	302-1	SPECIAL OPERATIONS REQUESTED TO ASSIST THE SCHOOL IN MONITORING THE SCHOOL.CREWS ARRIVED AT THE SCHOOL AT 6AM AND DEVELOPED AN IAP FOR THE ACTIVITIES.	BYNUM RUN	N/A
2024294924	NOTIFICATION	12/11/2024	1906 N FOUNTAIN GREEN RD	313-1	NOTIFICATION OF THE ON DUTY CREW CHIEF FOR AN ODOR IN BUILDING, E314 HANDLED	BYNUM RUN	N/A
2024304141	LEVEL C	12/22/2024	4170 PHILADELPHIA RD	402-1	SPECIAL OPERATIONS DISPATCHED TO ASSIST HCSO WITH UNKNOWN PRODUCTHCSO CONTACTED THE DUTY CREW CHIEF TO SEE WHAT CAN BE DONE WITH REMOVING FOUR LINES	BUSH RIVER	N/A
2024305756	ASST FIRE CO	12/24/2024	RED PUMP RD - VALE RD	352-1	ASSIST CO 3 WITH AUTO FIREUser: WILLIAM STUMP - HAZMAT Team 12/26/2024 09:06:47	ATKISSON RESERVIOR	N/A
Row Count: 22							



Harford County Department of Emergency Services

Special Operations Team

Report of Incidents from 01/01/2025 to 02/28/2025
LEPC Meeting



Incident #	Response Code	Date	Location	Box #	Description	Watershed	Entered Waterway
2025004827	LEVEL C	01/07/2025	803 PULASKI HWY	540-1	SPECIAL OPERATIONS DISPATCHED FOR PUMP OFF BY COMMAND 5OCCUPANT ADVISED HE STRUCK AN ITEM IN THE ROAD PULLED INTO ROYAL FARMS AND WHEN HE CAM BACK OUT	LOWER SUSQUEHANNA RIVER	N/A
2025009561	NOTIFICATION	01/13/2025	1601 MAR LYNN LN	331-1	NOTIFICATION OF HOME HEATING OIL SPILL CORBIN FUEL IS CLEANING THE SPILL WITH ABSORBENT AND MATS. SPILL IS UNDER 5 GALS.	WINTERS RUN	N/A
2025010130	LEVEL C	01/14/2025	2906 CHURCHVILLE RD - LEVEL RD	120-1	0714 HRS. CO.1 WAS ALERTED TO RESPOND TO A FUEL SPILL AT 2906 CHURCHVILLE RD. 0725 HRS. RES1 ARRIVED AND REPORTED A GASOLINE SPILL FROM THE UNDER GROUND	DEER CREEK	N/A
2025010224	NOTIFICATION	01/14/2025	2906 CHURCHVILLE RD	120-1	BALTO. TANK LINE STARTING CLEAN UP . NOTIFICATION.	DEER CREEK	N/A
2025019984	LEVEL C	01/26/2025	2812 HARFORD RD	1301-2	SPECIAL OPERATIONS DISPATCHED FOR A CONFINED SPACE RESCUECOMMAND 13 ON SCENE AND HELD TO CO13 UNITS AND COUNTY EMS.	LITTLE GUNPOWDER FALLS	N/A
2025021978	LEVEL C	01/29/2025	2201 JACK LN	313-1	SPECIAL OPERATIONS DISPATCHED FOR A FUEL SPILL SPECIAL OPERATIONS PLACED IN SERVICE BY COMMAND 3 LESS THAN 5 GALLONS OF FUEL SPILLED HANDLED BY ROYAL	BYNUM RUN	N/A
2025023264	NOTIFICATION	01/30/2025	823 OTSEGO ST	501-1	SPECIAL OPERATIONS NOTIFICATION ONLY NOTIFICATION OF SEWAGE SPILL IN ROADWAY, HDG DPW CLEANED THE SPILL UP.	LOWER SUSQUEHANNA RIVER	N/A
2025036268	LEVEL C	02/15/2025	2110 PULASKI HWY	542-2	SPECIAL OPERATIONS DISPATCHED TO ASSIST WITH A FUEL SPILL BY COMMAND 5.CH15-1 RECEIVED A CALL FROM MARYLAND DEPARTMENT OF THE ENVIROMENT ADVISING OF	SWAN CREEK	N/A
2025039410	NOTIFICATION	02/19/2025	1304 ENTERPRISE CT	313-1	RESPONDED FOR A REPORT OF USED OIL LEAK AT THE ABOVE FACILITY. UPON ARRIVAL, I WAS SHOWN THE ROOM THAT CONTAINED THE HOLDING CELLS FOR VARIOUS LIQUIDS.	DEER CREEK	N/A
2025039993	NOTIFICATION	02/20/2025	1319 PERRYMAN RD	215-1	NOTIFICATION OF CONFINED SPACE ENTRIES AT THE ABOVE ADDRESS. User: WILLIAM STUMP - HAZMAT Team 02/20/2025 08:58:32	BUSH RIVER	N/A
2025040515	LEVEL C	02/20/2025	3250 LEVEL RD	157-1	SPECIAL OPERATIONS DISPATCHED FOR A ANIMAL RESCUECOMMAND HAD UNITS STAGE AT THE CHURCH ACROSS THE STREET EXCEPT DIVCH15. PERSONNEL AWAITED FOR VET	LOWER SUSQUEHANNA RIVER	N/A
2025040840	ASST FIRE CO	02/21/2025	184 DARLINGTON AVE	211-1	DISPATCHED AT THE REQUEST OF DIRECTOR AYERS PERSONNEL ASSISTED COMMAND AS NEEDED	ABERDEEN PROVING GROUND PROPERTY	N/A
2025046732	INVESTIGATION	02/28/2025	102 GWEN DR	382-1	SPECIAL OPERATIONS INVESTIGATION BC BERNA RECEIVED A CALL FROM MDE MIKE IMBEROWICZ ABOUT A CALL FROM A OCCUPANT AT 102 GWEN DR. FIRE DEPARTMENT RESPONDED	N/A	N/A

Row Count: 13



Harford County Department of Emergency Services

Special Operations Team

Report of Incidents from 03/01/2025 to 04/30/2025
LEPC Meeting



Incident #	Response Code	Date	Location	Box #	Description	Watershed	Entered Waterway
2025048199	LEVEL C	03/02/2025	4855 CAREA RD	1008-1	SPECIAL OPERATIONS DISPATCHED FOR A HORSE RESCUE.CREWS ASSISTED COMMAND 10 AND VET WITH ASSISTING HORSE ON GROUND FOR UNKNOWN TIME.COMMAND RELEASE	DEER CREEK	N/A
2025048222	ASST FIRE CO	03/02/2025	LEVEL RD - N EARLTON RD	152-1	Chief 15-8 came up on a MVC, check for injuries and had 2 that wanted to be checked out with ems. Had dispatch send the assignment for a mvc, Chief 15-8	LOWER SUSQUEHANNA RIVER	N/A
2025048260	ASST FIRE CO	03/02/2025	510 CHESTNUT ST - EDMUND ST	212-1	SPECIAL OPS REQUESTED FOR DRONE ON BRUSH FIRE CHIEF 15-8 AND DIVCH15 RESPONDED WITH DRONE TO ASSIST CO2 ON A BRUSH FIRE AND USED CALTOP0 TO ASSIST IN	BUSH RIVER	N/A
2025051686	LEVEL C	03/06/2025	508 ROCK SPRING RD	305-1	Bel Air PD was on scene of a suspicious package, Ms Marcellia said she received a phone call last week asking her if she received the package with white	ATKISSON RESERVIOR	N/A
2025051760	LEVEL C	03/06/2025	120 N UNION AVE	502-1	Was dispatched as leaking freon at HdeG Library, E512 on scene found anti freeze leak from a car in front of LibraryUser: BRIAN REMINES - Hazmat 03/06/2025	LOWER SUSQUEHANNA RIVER	N/A
2025053476	ASST FIRE CO	03/08/2025	2715 PULASKI HWY	406-1	Co 4 was on 2 alarm building fire at this location, requested hazmat for run off from inside garage (vehicle product fluid) running down back parking	BUSH RIVER	N/A
2025054798	NOTIFICATION	03/10/2025	BULLE ROCK PKY - SUNNYS HALO DR	551-1	SPECIAL OPERATIONS NOTIFICATION OF A SEWAGE SPILL THAT HAPPENED TWO DAYS PRIOR. CHIEF 5 TO INVESTIGATE.	LOWER SUSQUEHANNA RIVER	N/A
2025058102	NOTIFICATION	03/14/2025	1723 OLD JOPPA RD	861-2	SPECIAL OPERATIONS NOTIFICATION ONLY CAR INTO HOUSE. BUILDING INSPECTOR ENROUTE.	LITTLE GUNPOWDER FALLS	N/A
2025060649	NOTIFICATION	03/17/2025	800 HICKORY DR	215-1	SPECIAL OPERATIONS NOTIFICATION ONLY NOTIFICATION THAT CLEANUP CREW WAS ON SCENE FROM PREVIOUS SPILL	BUSH RIVER	N/A
2025065953	ASST FIRE CO	03/23/2025	2045 WHITEFORD RD	603-1	SPECIAL OPERATIONS PERSONNEL ON SCENE OF A MVC. PERSONNEL PROVIDED ASSISTANCE.	BROAD CREEK	N/A
2025068070	INVESTIGATION	03/26/2025	143 N MAIN ST	305-1	DISPATCHED FOR A DONATION RECEIVED AT THE ABOVE ADDRESS THAT THEY BELIEVE CONTAINED RADIOACTIVE MATERIAL. UPON ARRIVAL, I WAS SHOWN 2, WORLD WAR 2 ERA	BYNUM RUN	N/A
2025068660	ASST FIRE CO	03/27/2025	112 PYLESVILLE RD	691-1	SPECIAL OPERATIONS PERSONNEL IN AREA TO ASSIST FIRE COMPANY WITH SMOKE IN THE AREA.	BROAD CREEK	N/A
2025069068	INVESTIGATION	03/27/2025	MOUNTAIN RD S - CLAYTON RD	801-1	T. Miller, Ch 15-3 was notified along with JMVFC about 2 batteries left along the side of the road on Clayton near Mountain Roads. DC8 arrived to find	GUNPOWDER RIVER	N/A
2025070633	ASST FIRE CO	03/29/2025	4024 GRANDE VIEW DR	611-1	SPECIAL OPERATIONS PERSONNEL IN AREA OF BRUSH FIRE AND ASSISTED FIRE COMPANY	BROAD CREEK	N/A
2025073858	NOTIFICATION	04/02/2025	105 LAFAYETTE ST	503-1	SPECIAL OPERATIONS NOTIFICATION ONLY REPORTED SEWAGE SPILL AND CLEAN UP.	LOWER SUSQUEHANNA RIVER	N/A
2025076171	LEVEL C	04/05/2025	86.0 JFK HWY	95-89S	SPECIAL OPERATIONS DISPATCHED FOR TRACTOR TRAILER LEAKING FLUID COMMAND 2 PLACED UNITS IN SERVICE BEFORE RESPONSE. DEF FLUID AND ANTIFREEZE LEAKING ONLY.	SWAN CREEK	N/A
2025077666	INVESTIGATION	04/07/2025	1317 WOODBRIDGE STATION WAY	816-1	0910 HRS. CHIEF 15-1 (SIMPSON) WAS DISPATCHED TO INVESTIGATE A GAS CAN BY THE DUMPSTER AT THE KINDER CARE CENTER. 0911 HRS. CHIEF 15-1 EN ROUTE 1005	LITTLE GUNPOWDER FALLS	N/A
2025080718	LEVEL C	04/10/2025	1730 WESTERN RUN RD	BALT	SPECIAL OPERATIONS REQUESTED BY BALTIMORE COUNTY FOR A ANIMAL RESCUE. UNITS PLACED IN SERVICE PRIOR TO ARRIVAL.	OUT OF COUNTY	N/A
2025087221	MEDICAL	04/18/2025	4747 DEER CREEK	1007-1	SPECIAL OPERATIONS DISPATCHED FOR THE WHEELED STOKES BASKET. AFTER ARRIVAL OF UTV17, WITH STOKES BASKET, COMMAND HELD TO UNITS ON THE SCENE.	DEER CREEK	N/A

2025091584	ASST FIRE CO	04/24/2025	2801 FALLSTON RD	1311-2	SPECIAL OPERATIONS PERSONNEL IN AREA OF EMS CALL AND PROVIDED ASSISTANCE.	ATKISSON RESERVIOR	N/A
2025094309	LEVEL C	04/27/2025	3999 SAINT CLAIR BRIDGE RD	799-1	SPECIAL OPERATIONS DISPATCHED FOR A ROPE RESCUE.CAR3 AND EMS ON SCENE AND LOCATED PATIENT NO LONGER AT KING AND QUEEN SEAT.COMMAND HELD TO UNITS ON	DEER CREEK	N/A
2025095166	LEVEL C	04/28/2025	4352 NORRISVILLE RD	715-1	SPECIAL OPERATIONS DISPATCHED FOR A UNKNOWN CHEMICAL SPILL.TEAM DISPATCHED FOR AN UNKNOWN CHEMICAL SPILL BY. CHIEF 15-1 ARRIVED WITH COMMAND 7.COMMAND	LITTLE GUNPOWDER FALLS	N/A
Row Count: 22							



Harford County Department of Emergency Services

Special Operations Team

Report of Incidents from 05/01/2025 to 06/30/2025
LEPC Meeting



Incident #	Response Code	Date	Location	Box #	Description	Watershed	Entered Waterway
2025099486	ASST FIRE CO	05/03/2025	630 FLINTLOCK DR	321-1	SPECIAL OPERATIONS CREW CHIEF WAS REQUESTED BY COMMAND 3 TO CONTACT THEM ABOUT A RAYDON DETECTOR ISSUE.	BUSH RIVER	N/A
2025099543	LEVEL C	05/03/2025	666 SUSQUEHANNA RIVER	CECIL	SPECIAL OPERATIONS DISPATCHED FOR SWIFTWATER 9-1 AND SWIFTWATER TEAM.CECIL COUNTY OPERATING ON A CALL WITH A REPORT OF SIX PERSONNEL IN THE WATER.SW9-1	LOWER SUSQUEHANNA RIVER	N/A
2025100531	NOTIFICATION	05/05/2025	1319 PERRYMAN RD	215-1	NOTIFICATION ONLY OF CONFINED SPACE ENTRY AT THE ABOVE LOCATIONUser: William STUMP - HAZMAT Team 05/05/2025 13:30:23	BUSH RIVER	N/A
2025100670	LEVEL C	05/05/2025	540 JOPPA FARM RD	818-1	SPECIAL OPERATIONS DISPATCHED FOR A HAZMAT WITH INJURIES.DISPATCHED FOR HAZMAT WITH TWO PEOPLE SICK.CAR2 ON SCENE INVESTIGATING. PERSONNEL DETERMINED	GUNPOWDER RIVER	N/A
2025101355	NOTIFICATION	05/06/2025	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLYCLOROX NOTIFICATION FOR CONFINED SPACE ENTRIES.	BUSH RIVER	N/A
2025102301	NOTIFICATION	05/07/2025	1319 PERRYMAN RD	215-1	SPECIAL OPERATIONS NOTIFICATION ONLYCLOROX DOING CONFINED SPACE ENTRIES	BUSH RIVER	N/A
2025104241	LEVEL B	05/09/2025	134 KENSINGTON PKY	409-1	Alerted to assist HCSO on location with a suspected hazardous powderEMS transported a male from location for a possible overdose prior to our notification	BYNUM RUN	N/A
2025105278	LEVEL C	05/10/2025	940 PULASKI HWY	501-1	SPECIAL OPERATIONS DISPATCHED FOR A SUBJECT IN THE WATER.ON ARRIVAL CREWS WERE GUIDED TO THE REAR OF THE STRUCTURE TO A POD. CO5 PERSONNEL WERE IN MUSTANG	LOWER SUSQUEHANNA RIVER	N/A
2025105450	LEVEL C	05/10/2025	100 BOURBON ST	502-1	SPECIAL OPERATIONS DISPATCHED FOR A WATER RESCUE SPECIAL OPERATION PLACED IN SERVICE PRIOR TO ARRIVAL BY COMMAND 5	LOWER SUSQUEHANNA RIVER	N/A
2025106050	NOTIFICATION	05/11/2025	1 LEXINGTON RD	331-1	SPECIAL OPERATIONS NOTIFICATION ONLY	ATKISSON RESERVIOR	N/A
2025110274	LEVEL C	05/16/2025	533 E JARRETTSVILLE RD	371-1	SPECIAL OPERATIONS PERSONNEL PASSING GAS LEAK AS IT HAPPENED .PERSONNEL ASSISTED FIRE DEPARTMENT.	BYNUM RUN	N/A
2025114754	ASST FIRE CO	05/21/2025	1521 ROCK SPRING RD	383-1	ASSIST CO. 3 WITH PERORTED STRUCTURE FIRE AT ABOVE LOCATION, SEE CO. 3 REPORTUser: WILLIAM STUMP - HAZMAT Team 05/21/2025 13:59:03	BYNUM RUN	N/A
2025128796	LEVEL C	06/06/2025	1526 ROCK SPRING RD	383-1	SPECIAL OPERATIONS DISPATCHED FOR A FUEL SPILL TO ASSIST COMPANY 3DC 3 ARRIVED WITH A SMALL SPILL AND ADVISED CO3 ENGINE COULD HANDLE AD OTHER UNITS	BYNUM RUN	N/A
2025134895	LEVEL C	06/13/2025	3334 HUGHES RD	927-1	SPECIAL OPERATIONS REQUESTED BY HCSO TO ASSIST AND STANDBY AT A DRUG INVESTIGATION.CH158 ARRIVED AND MET WITH HCSO PERSONNEL TO DISCUSS SITUATION.CH158	DEER CREEK	N/A
2025137931	LEVEL C	06/17/2025	84.4 JFK HWY	95-80N-2	SPECIAL OPERATIONS DISPATCHED FOR A HAZMAT INCIDENT TRACTOR TRAILER VENTING WITH CLOUD.SPECIAL OPERATIONS UNITS RESPONDED. CH158 ARRIVED ON SCENE.	BUSH RIVER	N/A
2025139002	INVESTIGATION	06/18/2025	220 S MAIN ST	300-1	0943 HRS CHIEF 15-1 (Simpson) WAS DISPATCHED TO ASSIST CO.3 ON A POSSIBLE CHEMICAL INCIDENT LOCATED IN THE COUNTY OFFICE BUILDING. 1005 HRS CH 15-1	WINTERS RUN	N/A
2025139515	LEVEL C	06/18/2025	638 HARBORSIDE DR	808-1	SPECIAL OPERATIONS DISPATCHED FOR HAZMAT WITH EMS.SPECIAL OPERATIONS DISPATCHED FOR A UNUSUAL ODOR WITH OCCUPANTS REQUESTING EMS.CO8 UNITS ON SCENE	GUNPOWDER RIVER	N/A
2025141840	LEVEL C	06/21/2025	TURKEY POINT,NORTH EAST	CECIL	SPECIAL OPERATIONS DISPATCHED FOR SWIFTWATER UNITS TO NORTH EAST MD CREWS WERE DISPATCHED TO ASSIST WITH LOCATING A PERSON WHO DOVE OFF A BOAT AND	OUT OF COUNTY	N/A
2025142550	NOTIFICATION	06/22/2025	15 CHURCHVILLE RD	300-1	SPECIAL OPERATIONS NOTIFICATION ONLYCOMMAND 3 REPORTED A CAR INTO A PILLAR AT THE LOCATION NO RESCUE BUT DID REQUEST BUILDING INSPECTOR TO CHECK ON	BYNUM RUN	N/A

2025142605	LEVEL C	06/22/2025	1399.414 GUNPOWDER STATE PARK TRL	1399-4	SPECIAL OPERATIONS DISPATCHED FOR AN INJURED SUBJECT ON A TRAIL IN GUNPOWDER STATE PARK. SPECIAL OPERATIONS PERSONNEL STAGED AND THEN RELEASED BY COMMAND	LITTLE GUNPOWDER FALLS	N/A
2025146685	LEVEL C	06/26/2025	1407 BONNETT PL	321-1	SPECIAL OPERATIONS DISPATCHED FOR A LION BATTERY LEAKING COMMAND 3 ADVISED IPHONE BATTERY CUT OPEN AND OCCUPANT DISPOSED OF BATTERY PRIOR TO FD ARRIVAL. COMMAND	BYNUM RUN	N/A
2025148294	N/A	06/28/2025	1819 MORNING BROOK DR	705-1	SPECIAL OPERATIONS REQUESTED TO ASSIST HCSO IN A SEARCH FOR A LOST CHILD CREWS OPERATED UNDER COMMAND 7 AND PERFORMED A SEARCH OF THE AREA. SEE HCSO	ATKISSON RESERVIOR	N/A
2025149848	LEVEL C	06/30/2025	2300 BEL AIR RD	1362-1	SPECIAL OPERATIONS DISPATCHED FOR A SWIFTWATER RESCUE COMMAND 13 ON SCENE NO RESCUE, HIGH WATER, PLACED ALL UNITS IN SERVICE	ATKISSON RESERVIOR	N/A
2025149941	N/A	06/30/2025	PHILADELPHIA RD - CALVARY RD	413-1	SPECIAL OPERATIONS DISPATCHED FOR SWIFTWATER RESCUE CHIEF 41 ON SCENE WITH OCCUPANT OUT OF CAR. SPECIAL OPERATIONS PLACED IN SERVICE.	BYNUM RUN	N/A
2025149963	LEVEL C	06/30/2025	PHILADELPHIA RD - BUSH RD	401-1	SPECIAL OPERATIONS DISPATCHED FOR A SWIFTWATER RESCUE CH 41 ON SCENE OF PREVIOUS INCIDENT. MSP DROVE INTO HIGH WATER AND BECAME DISABLED. CH 41 REQUESTED	BYNUM RUN	N/A

Row Count: 25

Meeting Agenda 17 July 2024, beginning at 3:00 PM

1. Call to Order Chairperson Dick Schwanke
2. Introductions - Around the “table” for all, introduction of new member
3. Hearing – Central Air Duct Cleaning
4. Approval of Minutes - Chairperson Dick Schwanke
5. Guest Speaker – none, since there is a hearing.
6. **REPORTS and UPDATES**
 - a. Past hearings follow-ups (believe there are none) - Clarence Ross, Lead Investigator
 - b. Report of Incidents - Special Operations. Chief, Steve Hinch
 - c. Emergency Management Report - Emergency Manager, Linda Ploener
 - d. SARA Title III Report - SARA Title III Coordinator, Rob Glassman
 - e. Maryland Dept Environment Updates - MDE CRTK Project Manager, Pat Williams
 - f. Hazmat Team Report Special Operations Chief, Steve Hinch
 - g. EPA Updates – EPA Region III Coordinator,
 - h. Cyber & Infrastructure Security - DHS Protective Security Advisor, Allen Frenette
 - i. Chemical Security - Infrastructure Security Inspector, Trevor Cantwell
 - j. Harford Legislative Update - County Council Chair, Patrick Vincetti / Samantha Harris
 - k. Grants Update Report – SARA Title III Coordinator, Rob Glassman
 - l. Health Department Updates - Environmental Health Officer, Joe Delizia
 - m. Harford County Public Schools Report - Director of Transportation, Cathy Bendis
 - n. Law Enforcement Updates - HC Sheriff's Department, Captain Michael Schleper
 - o. Energy Update – BGE External Relations, Dytonia Reed
 - p. Hospital Update - UCMC Emergency Manager,
 - q. Other reports and updates (as needed) – Chairperson, Dick Schwanke
7. **RECURRING BUSINESS**
 - a. Past due EPCRA reports
 - b. Recent site inspections and results
8. **NEW BUSINESS**
 - a. Emergency Response Guidebook 2024
 - b. Legislative news and training opportunities - Chairperson
 - c. To be announced, if more suggested
 - d. Other new business from members
9. For the good of the organization Items from members - around the table for all

Next Meeting –18 September 2024 at 3:00 PM

Meeting Agenda 18 September 2024, beginning at 3:00 PM

1. Call to Order Chairperson Dick Schwanke
2. Introductions - Around the “table” for all, introduction of new member
3. Hearing – Central Air Duct Cleaning
4. Approval of Minutes - Chairperson Dick Schwanke
5. Guest Speaker – none, since there is a hearing.
6. **REPORTS and UPDATES**
 - a. Past hearings follow-ups (believe there are none) - Clarence Ross, Lead Investigator
 - b. Report of Incidents - Special Operations. Chief, Steve Hinch
 - c. Emergency Management Report - Emergency Manager, Linda Ploener
 - d. SARA Title III Report - SARA Title III Coordinator, Rob Glassman
 - e. Maryland Dept Environment Updates - MDE CRTK Project Manager, Pat Williams
 - f. Hazmat Team Report Special Operations Chief, Steve Hinch
 - g. EPA Updates – EPA Region III Coordinator,
 - h. Cyber & Infrastructure Security - DHS Protective Security Advisor, Allen Frenette
 - i. Chemical Security - Infrastructure Security Inspector, Trevor Cantwell
 - j. Harford Legislative Update - County Council Chair, Patrick Vincetti / Samantha Harris
 - k. Grants Update Report – SARA Title III Coordinator, Rob Glassman
 - l. Health Department Updates - Environmental Health Officer, Joe Delizia
 - m. Harford County Public Schools Report - Director of Transportation, Cathy Bendis
 - n. Law Enforcement Updates - HC Sheriff's Department, Special Operations Branch, Captain Grant Krulock
 - o. Watershed Protection & Restoration – MS4 Program Administrator – Danielle Hankins
 - p. Energy Update – BGE External Relations, Chanel Rhoades-Reed
 - q. Hospital Update - UCMC Emergency Manager,
 - r. Other reports and updates (as needed) – Chairperson, Dick Schwanke
7. **RECURRING BUSINESS**
 - a. Past due EPCRA reports
 - b. Recent site inspections and results
8. **NEW BUSINESS**
 - a. Legislative news and training opportunities – Chairperson
 - b.
 - c. To be announced, if more suggested
 - d. Other new business from members
9. For the good of the organization Items from members - around the table for all

Next Meeting –20 November 2024 at 3:00 PM

Meeting Agenda 20 November 2024, beginning at 3:00 PM

1. Call to Order Chairperson Dick Schwanke
2. Introductions - Around the “table” for all, introduction of new members and noting Clarence Ross has retired
3. Hearing – Central Air Duct Cleaning
4. Approval of Minutes - Chairperson Dick Schwanke
5. Guest Speaker – none, since there is a hearing.
6. **REPORTS and UPDATES**
 - a. Past NOVs / hearings follow-ups (Central Air Duct Cleaning) – Special Operations Chief, Steve Hinch
 - b. Report of Incidents - Special Operations Chief, Steve Hinch
 - c. Emergency Management Report - Emergency Manager, Linda Ploener
 - d. SARA Title III Report - SARA Title III Coordinator, Rob Glassman
 - e. Maryland Dept Environment Updates - MDE CRTK Project Manager, Pat Williams
 - f. Hazmat Team Report Special Operations Chief, Steve Hinch
 - g. EPA Updates – EPA Region III Coordinator,
 - h. Cyber & Infrastructure Security - DHS Protective Security Advisor, Allen Frenette
 - i. Chemical Security - Infrastructure Security Inspector, Trevor Cantwell
 - j. Harford Legislative Update - County Council Chair, Patrick Vincetti / Samantha Harris
 - k. Grants Update Report – SARA Title III Coordinator, Rob Glassman
 - l. Health Department Updates - Environmental Health Officer, Joe Delizia
 - m. Harford County Public Schools Report - Director of Transportation, Cathy Bendis
 - n. Law Enforcement Updates - HC Sheriff's Department, Special Operations Branch, Captain Grant Krulock
 - o. Watershed Protection & Restoration – MS4 Program Administrator – Danielle Hankins
 - p. Energy Update – BGE External Relations, Chanel Rhoades-Reed
 - q. Hospital Update - UCMC Emergency Manager,
 - r. Other reports and updates (as needed) – Chairperson, Dick Schwanke
7. **RECURRING BUSINESS**
 - a. Past due EPCRA reports
 - b. Recent site inspections and results
8. **NEW BUSINESS**
 - a. Legislative news and training opportunities – Chairperson
 - b.
 - c. To be announced, if more suggested
 - d. Other new business from members
9. For the good of the organization Items from members - around the table for all

Next Meeting –20 November 2024 at 3:00 PM

Meeting Agenda 15 January 2025, beginning at 3:00 PM

1. Call to Order Chairperson Dick Schwanke
2. Introductions - Around the “table” for all, introduction of new members and noting Clarence Ross has retired
3. Hearing – none scheduled
4. Approval of Minutes - Chairperson Dick Schwanke
5. Guest Speaker – none, since there is a hearing.
6. **REPORTS and UPDATES**
 - a. Past NOVs / hearings follow-ups (Central Air Duct Cleaning) – Special Operations Chief, Steve Hinch
 - b. Report of Incidents - Special Operations Chief, Steve Hinch
 - c. Emergency Management Report - Emergency Manager, Linda Ploener
 - d. SARA Title III Report - SARA Title III Coordinator, Rob Glassman
 - e. Maryland Dept Environment Updates - MDE CRTK Project Manager, Pat Williams
 - f. Hazmat Team Report Special Operations Chief, Steve Hinch
 - g. EPA Updates – EPA Region III Coordinator,
 - h. Cyber & Infrastructure Security - DHS Protective Security Advisor, Allen Frenette
 - i. Chemical Security - Infrastructure Security Inspector, Trevor Cantwell
 - j. Harford Legislative Update - County Council Chair, Patrick Vincetti / Samantha Harris
 - k. Grants Update Report – SARA Title III Coordinator, Rob Glassman
 - l. Health Department Updates - Environmental Health Officer, Joe Delizia
 - m. Harford County Public Schools Report - Director of Transportation, Cathy Bendis
 - n. Law Enforcement Updates - HC Sheriff’s Department, Special Operations Branch, Captain Grant Krulock
 - o. Watershed Protection & Restoration – MS4 Program Administrator – Danielle Hankins
 - p. Energy Update – BGE External Relations, Chanel Rhoades-Reed
 - q. Hospital Update - UCMC Emergency Manager,
 - r. Other reports and updates (as needed) – Chairperson, Dick Schwanke
7. **RECURRING BUSINESS**
 - a. Past due EPCRA reports (this item recurs of course, but it is time for the next reporting cycle, see 6d and 6e above.)
 - b. Recent site inspections and results
 - c. Annual public notice publication
8. **NEW BUSINESS**
 - a. Legislative news and training opportunities – Chairperson
 - b. To be announced, if more are suggested

c. Other new business from members

9. For the good of the organization Items from members - around the table for all

Next Meetings – all Wednesdays at 3:00 PM unless otherwise noted.

The other five 2025 dates are 19 March, 21 May, 16 July, 17 September, and 19 November 2025

Meeting Agenda 19 March 2025, beginning at 3:00 PM

1. Call to Order Chairperson Dick Schwanke
2. Introductions - Around the “table” for all, introduction of new members and noting Clarence Ross has retired
3. Hearing – Bay Oil Company
4. Approval of Minutes - Chairperson Dick Schwanke
5. Guest Speaker – none, since there is a hearing.
6. **REPORTS and UPDATES**
 - a. Past NOVs / hearings follow-ups (Central Air Duct Cleaning) – Special Operations Chief, Steve Hinch
 - b. Report of Incidents - Special Operations Chief, Steve Hinch
 - c. Emergency Management Report - Emergency Manager, Linda Ploener
 - d. SARA Title III Report - SARA Title III Coordinator, Rob Glassman
 - e. Maryland Dept Environment Updates - MDE CRTK Project Manager, Pat Williams
 - f. Hazmat Team Report Special Operations Chief, Steve Hinch
 - g. EPA Updates – EPA Region III Coordinator,
 - h. Cyber & Infrastructure Security - DHS Protective Security Advisor, Allen Frenette
 - i. Chemical Security - Infrastructure Security Inspector, Trevor Cantwell
 - j. Harford Legislative Update - County Council Chair, Patrick Vincetti / Samantha Harris
 - k. Grants Update Report – SARA Title III Coordinator, Joe Woods
 - l. Health Department Updates - Environmental Health Officer, Joe Delizia
 - m. Harford County Public Schools Report - Director of Transportation, Cathy Bendis
 - n. Law Enforcement Updates - HC Sheriff’s Department, Special Operations Branch, Captain Grant Krulock
 - o. Watershed Protection & Restoration – MS4 Program Administrator – Danielle Hankins
 - p. Energy Update – BGE External Relations, Chanel Rhoades-Reed
 - q. Hospital Update - UCMC Emergency Manager,
 - r. Other reports and updates (as needed) – Chairperson, Dick Schwanke
7. **RECURRING BUSINESS**
 - a. Past due EPCRA reports (current reporting cycle just ended, also see 6d and 6e above)
 - b. Recent site inspections and results – Steve Hinch (excluding 3, 6a, & 6f above)
8. **NEW BUSINESS**
 - a. Legislative news and training opportunities – Chairperson
 - b. To be announced, if more are suggested
 - c. Other new business from members

9. For the good of the organization Items from members - around the table for all Next Meetings – all Wednesdays at 3:00 PM unless otherwise noted.

The future 2025 dates are 21 May, 16 July, 17 September, and 19 November 2025

Meeting Agenda 21 May 2025, beginning at 3:00 PM

1. Call to Order Chairperson Dick Schwanke
2. Introductions - Around the “table” for all, introduction of new members and noting Clarence Ross has retired
3. Hearing – none scheduled
4. Approval of Minutes - Chairperson Dick Schwanke
5. Guest Speaker – none this month
6. **REPORTS and UPDATES**
 - a. Past NOVs / hearings follow-ups (Central Air Duct Cleaning) – Special Operations Chief, Steve Hinch
 - b. Report of Incidents - Special Operations Chief, Steve Hinch
 - c. Emergency Management Report - Emergency Manager, Linda Ploener
 - d. SARA Title III Report - SARA Title III Coordinator, Rob Glassman
 - e. Maryland Dept Environment Updates - MDE CRTK Project Manager, Pat Williams
 - f. Hazmat Team Report Special Operations Chief, Steve Hinch
 - g. EPA Updates – EPA Region III Coordinator,
 - h. Cyber & Infrastructure Security - DHS Protective Security Advisor, Allen Frenette
 - i. Chemical Security - Infrastructure Security Inspector, Trevor Cantwell
 - j. Harford Legislative Update - County Council Chair, Patrick Vincetti / Samantha Harris
 - k. Grants Update Report – SARA Title III Coordinator, Joe Woods
 - l. Health Department Updates - Environmental Health Officer, Joe Delizia
 - m. Harford County Public Schools Report - Director of Transportation, Cathy Bendis
 - n. Law Enforcement Updates - HC Sheriff's Department, Special Operations Branch, Captain Grant Krulock
 - o. Watershed Protection & Restoration – MS4 Program Administrator – Danielle Hankins
 - p. Energy Update – BGE External Relations, Chanel Rhoades-Reed
 - q. Hospital Update - UCMC Emergency Manager,
 - r. Other reports and updates (as needed) – Chairperson, Dick Schwanke
7. **RECURRING BUSINESS**
 - a. Past due EPCRA reports
 - b. Recent site inspections and results – Steve Hinch
8. **NEW BUSINESS**
 - a. Legislative news and training opportunities – Chairperson
 - b. To be announced, if more are suggested
 - c. Other new business from members
9. For the good of the organization Items from members - around the table for all

Next Meetings – all Wednesdays at 3:00 PM unless otherwise noted.

The future 2025 dates are 16 July, 17 September, and 19 November 2025.