MARYLAND USED OIL RECYCLING PROGRAM (CY18 DATA)

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Land and Materials Administration
Resource Management Program

Prepared for:
Senate Education, Health, and Environmental Affairs Committee

House Environment and Transportation Committee

Larry Hogan, Governor
State of Maryland

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Bill Ferguson, Senate President
Maryland General Assembly

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EXECUTIVE SUMMARY

The Maryland Used Oil Recycling Program (the Program) is administered by the Maryland Department of the Environment (MDE) through a memorandum of understanding (MOU) with the Maryland Environmental Service (MES). The authority for the Program is found in Section 5-1001 of the Environment Article of the Maryland Annotated Code, the *Maryland Used Oil Recycling Act*.

MES is responsible for implementing a statewide program for the construction, operation, and the routine maintenance of used oil collection facilities; providing public education and outreach programs related to the disposal of used oil; and maintaining an information center to educate citizens regarding the proper disposal of used oil. Additionally, MES utilizes the collection sites for the collection of related recyclables, including used antifreeze and oil filters.

MES also administers funding for the purpose of implementing supplemental environmental projects. Specifically, this grant funding is used to assist in the construction of rain shelters to minimize stormwater contact with the used oil collection tanks and is also used to fund the purchase of above-ground storage tanks for new sites, as well as replacements for older sites.

Since 1988, the Program has collected and recycled over 18 million gallons of used oil in the State of Maryland. Similarly, the Program has collected and recycled over 973,000 gallons of used antifreeze from Maryland do-it-yourself automobile and boating enthusiasts.

During 2018, 375,727 gallons of used oil and 32,968 gallons of used antifreeze were collected from Program-sponsored locations. Additionally, during this period, 215 drums of used oil filters were collected for recycling.

INTRODUCTION

The 2018 Maryland Used Oil Recycling Program Annual Report is provided to the Maryland General Assembly as required by Section 5-1001(g) of the Environment Article, the *Maryland Used Oil Recycling Act*.

The Maryland Used Oil Recycling Program (the Program) is administered by the Maryland Department of the Environment (MDE) through a memorandum of understanding (MOU) with Maryland Environmental Service (MES). MES designates used oil collection facilities, offers technical and financial assistance to establish collection facilities, routinely inspects and cleans Program-sponsored facilities, provides public education, operates an information center, and implements other non-regulatory provisions of the *Maryland Used Oil Recycling Act*. MDE and MES are pleased to provide the following report detailing the accomplishments, initiatives, and progress of the Program during CY18 as well as plans for CY19.

BACKGROUND

The Program was created by the *Maryland Used Oil Recycling Act*, which was enacted in July 1978. Initial start-up funding for the Program was allocated from energy funds. This funding enabled the creation of a program to assist the home mechanic with proper used oil disposal. Farmers and boat owners at marinas also used these facilities for their oil recycling.

MES purchased oil collection tanks, collection boxes, hardware, and signs. County and local governments were solicited to assist in establishing convenient and accessible used oil collection sites for citizens. A variety of collection sites were established. Most are located at government-owned solid waste, public works, and road maintenance facilities.

The Program has been successful at recruiting and maintaining donor locations for several reasons: 1) free collection service of used oil; 2) Program-provided financial assistance for tanks and shelters; and 3) the Program assumes the responsibility for disposing of any contaminated used oil.

2018 PROGRAM UPDATES AND ACCOMPLISHMENTS

Since its inception in 1988, the Program has expanded from 44 collection sites to the current 131 operational sites and has recycled more than 18 million gallons of used oil over this time period. Collection of used oil from all Program locations yielded 375,727 gallons of used oil in CY18. This was a 17.5% decrease from the 455,729 gallons collected in 2017. This decrease was due to Calvert County removing seven sites from the collection program in August 2018 in order to manage on their own. Historical used oil and antifreeze annual collection results are summarized in graphs at the end of the report. Spreadsheets of the detailed used oil and antifreeze collection records for the participating Program sites are attached as well (Appendix A).

Key Updates and Accomplishments

- Collected and recycled 375,727 gallons of used oil.
- Collected and recycled 215 drums of used oil filters.
- Repaired or upgraded secondary containments at two locations.
    - New fill boxes at Port Annapolis Marina in Anne Arundel County.
    - Replaced spill pallets at several locations.
- Performed supplementary cleaning and maintenance at Program-sponsored locations during the year.
    - Eight Harford County sites cleaned twice weekly (through an independent agreement between MES and Harford County).
    - Enhanced cleanings at five sites utilizing the mobile cleaning unit.
    - Oily water removal from two sites using our water recovery system.
    - Replaced oil tank at Crisfield Marion transfer station.
    - Painted or upgraded tanks at over 20 sites.

Program Administration

The Program cost to MDE for state FY18 was $99,239.42. MDE approved $99,950.00 for MES to implement the Program in FY19.

Operation and Maintenance

Good housekeeping practices are important aspects of spill control and contamination prevention. As part of its management of the Program, MES has conducted on-site audits of all Program-sponsored collection facilities to ensure that sponsors, recycling coordinators, site supervisors, and site operational staff are aware of their pollution prevention responsibilities. Additionally, MES staff conducted routine cleaning and maintenance, as necessary, to assist the site hosts in maintaining environmental compliance. During CY18, MES performed supplementary cleaning and maintenance at most Program-sponsored locations.

To reduce costs associated for cleanings and water recovery completed by private contractors, MES developed a mobile cleaning trailer for use at oil collection sites. The trailer, equipped with a power washer, water tanks, and a water recovery system allows staff to thoroughly clean collection sites and recover the resulting oily water. The mobile cleaning trailer was deployed eight times in 2018 for enhanced cleanings and oily water recovery.

MES continually reminds all site hosts that they are responsible for providing day-to-day monitoring and housekeeping of their tanks. MES staff assists with housekeeping and compliance as needed, based on the results of the routine site inspections. MES maintains full-time staff to

conduct routine site audits, and assist with site maintenance and cleaning. Sites are upgraded, as needed, to increase compliance and minimize the potential for impacts to the environment.

Given the concern over proper disposal of used oil, contaminated oil, and unauthorized dumping of trash and hazardous materials, MES continues to urge site hosts to remain in the Program. Since the used oil can be easily contaminated with polychlorinated biphenyls, brake cleaning fluids, and other readily accessible chemicals, MES and MDE believe that citizens are better served by local governments staying within the established Program.

Public Outreach

MES and the MDE each maintain a webpage with information related to the Program.

MES' webpage:
menv.com/service/used-oil-antifreeze-recycling/

MDE's webpage: mde.maryland.gov/programs/Land/OilControl/Pages/UsedOilProgram.aspx

From the MES webpage, Marylanders can find the public information number 800-4RECYCLE (800-473-2925), and an email address to inquire about proper disposal of used oil and antifreeze. MES also has a listing of collection sites by county. Hundreds of calls were made to the public information number in 2018, with most callers requesting information on used oil collection locations.

During 2018, information was provided to the public about the importance of proper handling, disposal, and recycling of used oil and antifreeze via education and outreach events and social media.

PLANNED ACTIVITIES FOR 2019

Administration

- MDE will continue to fund the Program; MES will continue to implement the Program.
- MES will continue the grant program to assist locations in upgrading existing sites.

Operation and Maintenance

- MES will continue annual inspections of all Program-participating sites in order to ensure continued protection of the environment.
- MES will continue the routine maintenance and cleaning program to ensure safe operation at participating sites.
- MES will continue the tank upgrade program by replacing single-wall 275-gallon tanks with new, more environmentally protective double-wall tanks.
- MES will explore ways to improve automated monitoring of participating sites to deter abuse of the facilities.

Public Outreach

- MES will continue updating and linking the used oil recycling pages; MES will continue public outreach and education at local county events.
- MES will send annual program reports to solid waste managers and recycling coordinators.
- MES will continue membership in the Association of Responsible Recyclers while updating Program participants and citizens with current information, issues, and trends within the industry.
- MES will explore additional ways to market the Program to the public.

ANNUAL MES USED OIL RECOVERY
DIY Oil Collection Sites
(gallons)
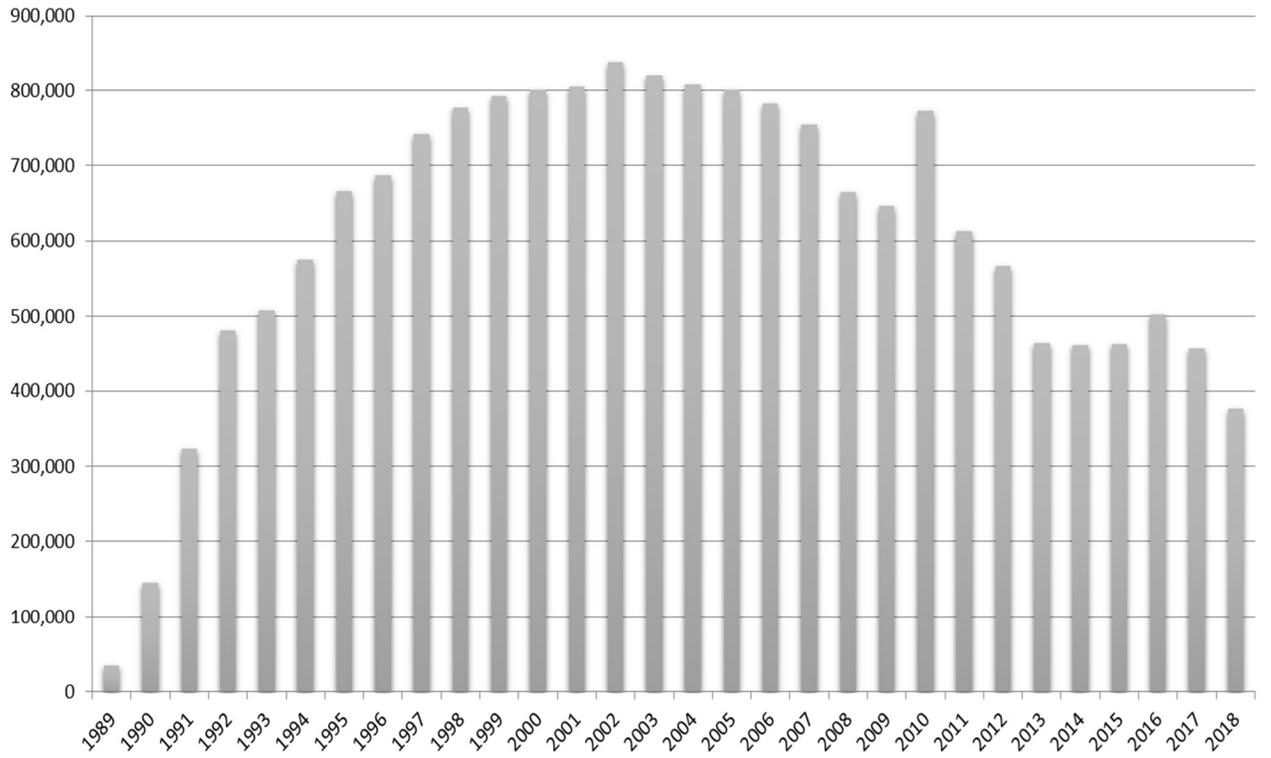
ANNUAL MES USED ANTIFREEZE RECOVERY
DIY Oil Collection Sites
(gallons)
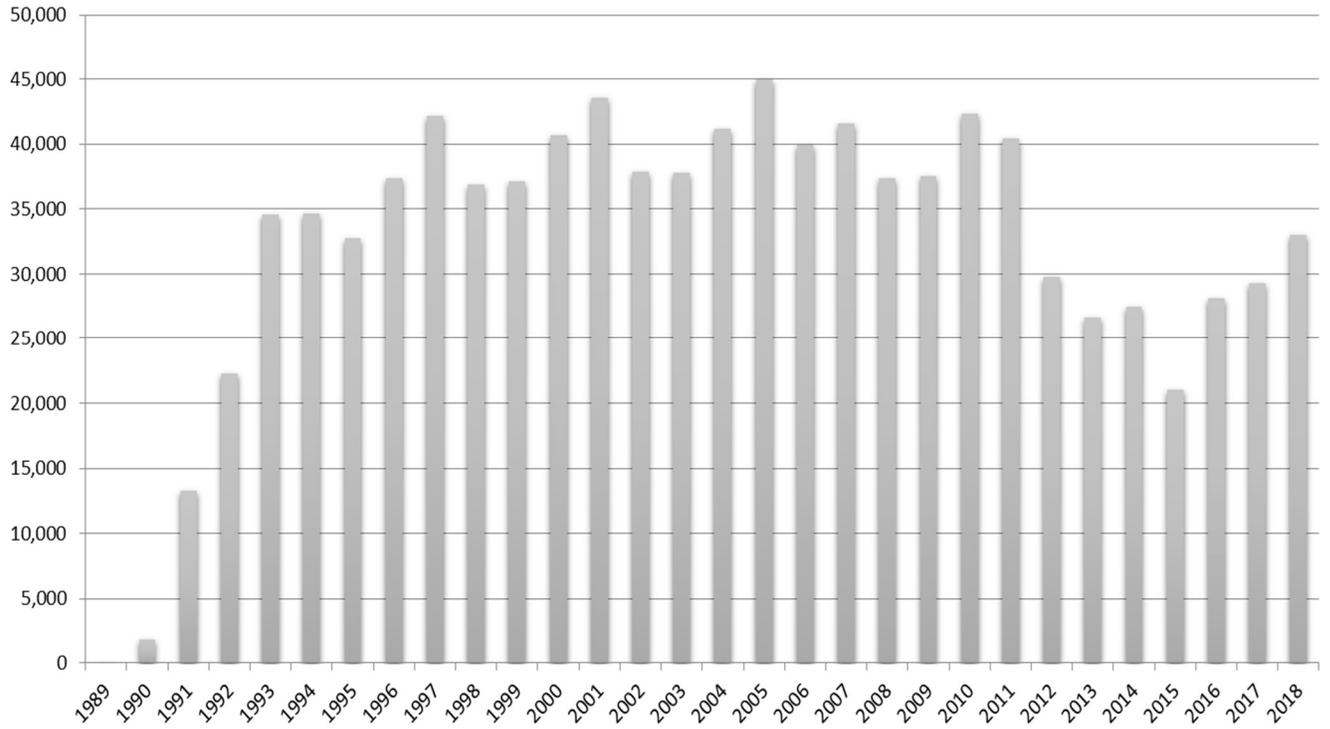
APPENDIX A

USED OIL and ANTIFREEZE COLLECTION DATA

"CY18"

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Totals
	Maryland Environmental Service													
	2018 Used Oil Collection Report (gallons)													
Allegeny County	Allegany Co TS	150			175		65			400		114		904
	Allegany County													0
	Allegany County Road's	275			200	50	50		133	85		114		907
	Allegany County Transit				200		90			90		62		442
	Flintstone SW Coll	125			175		70		95			201		666
	Moutainview LF	450			500	300	200		300	361		341		2,452
	Penn mar Recyding	500			500	350	650		475	380		500		3,355
Anne Arundel County	Annapolis landing marine						200		214			211		625
	Casa Rio Marina					200	237			190		237		864
	Crownsville Hospital													0
	Magothy Marina													0
	Mear's Marina						142							142
	Old Denton Site						375							375
	Port Anna				200									200
	White Rocks Yachting Ctr	250												250
	Herrington Harbor N				70									70
	Herrington Harbor S													0
	Hidden Harbor Marina							608	1,025	712	1,073	1,149	703	5,270
Baltimore City	7th District Highway Shed							641					340	981
	Balto Co Westemt Acceptance	200	1,000	450	625	1,000	1,093		807	665	475	332	807	7,454
	Bowley's Marine					265		76					47	388
	Eastern Sanitation landfill	250	70	60	160		60		180	142		95		1,017
	Northwest Sant Yard					350							80	430
	Northwest Tran Station													0
	Quarantine Road LF	950						414						1,364
Calvert County	Appeal LF	175	500	750	475	534	456							2,890
	Bail road Site	334	340	500	505	580	445							2,704
	Barstow Site	50	375	470	445	589	361	Calvert County left the Used Oil Program						2,290
	Huntingtontown Site	75	210	450	455	205	333							1,728
	Lusby Waste Comp Site	100	300	275	305	250	324							1,554
	MT Hope Site	368	955	1,080	1,530	575	1,324							5,832
	Plum Point Site	75	320	400	425	375	376							1,971
Caroline County	Denton Dept of Pub Works													0
	Holly Collection Site	350	490	450	300	725	522	760	774	318	731	542	380	6,342
	Melville Site					200								200
	Midshore II LF	377			355		445			456			190	1,823
Carroll County	Carroll Co Fleet													0
	City of Taneytown Recycling		200	225	275	275	309		237		451		285	2,257
	City of Westminster	475	250		375	500	1,050	854	1,352	879	973	927	522	8,157
	Hampstead Main Garage		450		475	300	416	474		332	261	214	546	3,468
	Hoods Nill Drop off				200	450		3,063	2,754	2,089	2,659	2,351	1,971	15,537
	Northern LF - Resoursces Recov	1,400	1,475	1,850	2,800	3,900	2,719	760	949	475	688	807	550	18,373
	Town of Sykesville	425	225	750	1,050	850	625							3,925

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Cecil County	Bohemia Vista Marine					100		1,311	789	1,947	1,385	831	1,139	7,502
	Cecil Co LF	450	760	720	2,025	1,385	975							6,315
	Locust Point Marina													0
	Stemmers Run TS				400	300		271	142	281	403	332	251	2,380
	Town of Elkton Pub Works	400				275	560	309	712	336	721	423	315	4,051
	Woodlawn Trans Station	450	775	325	325	800	380		826				313	4,194
Dorcester County	Beulah LF												57	57
	Cambridge WWTP							498	470	341	228	142	100	1,779
	City of Cambridge	272	185	309	428	500	331							2,025
	Golden Hill LF				200								120	320
	Secretary TS		220		275	105		309	475	380	237	451	95	2,547
Frederick County	Brunswick PW	150	350		500	500	614	2,231	2,160	1,757	1,970	1,875	1,164	13,271
	Frederick County recycling	1,150	1,225	1,350	2,150	2,675	2,817	1,164	1,377	853	1,542	831	759	17,893
	Mt Airy Maint Fac	650	1,175	1,225	1,200	1,550	1,012	736	237	300	546	214	476	9,321
	Ingram Shell	125												125
	Town fo Thurmont	100	400	350	300	400	500							2,050
Garrett County	Bumble Bee Site			350		200		309				299		1,158
	Garrett County			300		250		332				71		953
	Garrett highway Site			300		150		332				71		853
	Kings Run Site			350		200		404				356		1,310
	Route 135			350		150		356				285		1,141
	Town of Grantsville Site			500		250		665				641		2,056
Harford County	Abingdon Disctrict hwy Shop	70	160	240	250	710	332	778	627	774	617	901	512	5,971
	Aldino Highway Shop	300	220	450	720	800	200		142	76	147	285		3,340
	City of Havre De Grace WW Dept		120	120	70	90	75	674	1,006	494	897	427	302	4,275
	Jarrettsville Hwy Shop	580	1,110	640	560	1,620	808	66	190	85	76	190	219	6,144
	Joppatown WWTp			210	190	380	80	380	404	261	266	323	450	2,944
	Norrsville Em School		410	535	400	530	380	1,405	1,386	1,300	1,258	1,026	683	9,313
	Scarboro LF	610	630	720	1,050	2,230	1,353						546	7,139
	Sod Runn WWTP					225		285	95	463	617	119	100	1,904
	Town of Aberdeen PW	150	250	250	100	300	199	654	532	541	403	379	410	4,168
	Town of bel Air PW	440	450	500	745	970	733	855	522	446	864	190	670	7,385
	Whitefird hwy Shop	500	540	250	150	990	902							3,332
Kent County	Duck Puddle Drop off	134				130								264
	Haven Harbor Marina													0
	Nicholson Drop Off			255										255
	Sharptown Drop off	250		50										300
Prince George's County	Chellenham QWWTP							233	281	171	384	332	239	1,640
	City of Greenbelt PW	240	500	190	425	625	228							2,208
	City of Hyattsville PW							369	506	511	370	499	261	2,516
	City of laurel PW	420	410	550	745	580	670	142	209	130	198	260	617	4,931
	City of New Carrollton				660	120	325							1,105
	PG Cty Materials Recovery													0
	Town of Cheverly					250		125	223		123			721
	Town of Riverdale Park	150		120		150	130	427	380	446	304	332	237	2,676

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Queen Anne's County	Batts Neck TS	281	170	140	225	675	656	285	285	266	323	237	237	3,780
	Centreville TS	218	150	495	210	500	574	71	190	171	214	119	66	2,978
	Church Hill TS	171	75	200	160	465	81	52	95		247	475	128	2,149
	Glanding TS		85	110	85	120	121	237	285	180	95	261	323	1,902
	Grasonville TS		100	225	110	775	142	166			95			1,613
	Piney Narrows Yacht Haven		270	0			171	475	460	531	347	807	410	3,471
	Queen Anne's Cty pub Landing		900	420	385		176		114					1,995
Somerset County	Chance TS	150				150								300
	City of Crisfield PW												133	133
	Dublin - Costen				200				285	437			252	1,174
	Marion - Crisfield TS				300	95			522				285	1,202
	Mt Vernon TS	525			285	125							120	1,055
	Somers Cove marina				250									250
St Mary's County	Charlotte Hall Conv Ctr	640	700	940	1,345	1,740	953							6,318
	MT Int Raceway				1,170			645	817	546	465	674	300	4,617
	Clements Conv	480	360	530	1,080	1,225	717							4,392
	Oakville Con Ctr	290	440	500	550	1,100	622	437	123	304	275	261	246	5,148
	Ridge Con Ctr	220	140	280	305	500	126	1,064	988	1,045	1,025	1,614	760	8,067
	St Andrew Conv Ctr	905	1,020	1,000	1,090	2,050	1,367	218	246	284	161	456	180	8,977
	St Andrew Veh main		300	200	250	400	166	451	351	570	579	736	309	4,312
	Valley Lee Con Ctr	280	250	370	520		647				100		47	2,214
Talbot County	Bellevue landing						24				318		142	484
	Dogwood Harbor						142		452		304	214	261	1,373
	Midshore I LF	350	240		205	375	171		142		128		166	1,777
	Neavitt Landing			115			71	375	271		209	190	275	1,506
	Oak Creek Landing		230		225	450	133		147				275	1,460
	Trapper landing		225		275		104	950	1,140	736	1,021	332	332	5,115
Washington County	40 West LF	700	475	675	825	975	825						190	4,665
	Dargan TS			200				214	285	166	190	190	95	1,340
	Greensburg TS	150	100	125	150	275	200		71	261		167		1,499
	Hancock LF						522	214	190	166	190	142	119	1,543
	Kaetzel TS	125	100	125	125	200	125							800
	Town of Boonsboro						400		261			261		922
Wicomico County	Airport TS		300			250								550
	Bivalve TS					250					180	166		596
	Delmar TS		185	275			80		231			237		1,008
	Fruitland TS						250				157	123		530
	Hebron TS				190		100				171			461
	Mardela Springs TS				220		100				475			795
	Newland Parl LF TS						400		180	157		237		974
	Parsonsburg TS		200		230		172					142		744
	Quantico TS		120				199		221			161		701
	Sharptown TS				210						261	237		708
	Wango TS		300			275	119	807	1,681	1,002	655	1,206	625	6,670
	Wicomico Cty SW & Recy	490	945	660	1,180	450	801	285	451	394	522	285	516	6,979

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Totals
Worcester County	Berlin TS		350	395	260	450	804	119	90		133		275	2,876
	Central LF		200		155	75	50	408	104			285	120	1,397
	Pocomoke TS		175		235	100	100						145	755
	Snow Hill TS							104	71				210	385
	Worcester Cty PW		175		165	200		912	646	446	844	498	475	4,361
Total Gallons Collected		January	February	March	April	May	June	July	August	September	October	November	December	2018 Total
		20,920	26,330	26,579	39,483	48,413	39,047	31,759	34,381	27,898	29,782	30,995	24,473	380,060

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
	Maryland Environmental Service													
	2018 Used Antifreeze Collection Report (gallons)													
Allegeny County	Allegany Co TS													0
	Allegany County													0
	Allegany County Road's													0
	Allegany County Transit													0
	Flintstone SW Coll													0
	Moutainview LF					250						177		427
	Penn mar Recycling					300						215		515
Anne Arundel County	Annapolis landing marine									55				55
	Casa Rio Marina				75									75
	Crownsville Hospital													0
	Herrington Harbor N													0
	Herrington Harbor S													0
	Hidden Harbor Marina										230			230
	Magothy Marina													0
	Mear's Marina													0
	Old Denton Site													0
	Port Anna													0
	White Rocks Yachting Ctr		55											55
Baltimore City	7th District Highway Shed													0
	Balto Co Westernt Acceptance					250					300			550
	Bowley's Marine													0
	Eastern Sanitation landfill													0
	Northwest Sant Yard													0
	Northwest Tran Station													0
	Quarantine Road LF													0
Calvert County	Appeal LF					50	60							110
	Bail road Site						50							50
	Barstow Site				100		40							140
	Huntingtontown Site				75		50	Calvert County left the Used Oil Program						125
	Lusby Waste Comp Site						40							40
	MT Hope Site				100		50							150
	Plum Point Site					100	40							140
Caroline County	Denton Dept of Pub Works													0
	Holly Collection Site	200				200			250			150		800
	Melville Site													0
	Midshore II LF													0
Carroll County	Carroll Co Fleet													0
	City of Taneytown Recycling													0
	City of Westminster		250					250	300			225		1,025
	Hampstead Main Garage											225		225
	Hoods Nill Drop off				250			250	275	250	225	250	250	1,750
	Northern LF - Resoursces Recov		470	250	250	250	275				225			1,720
	Town of Sykesville		225				200							425

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Cecil County	Bohemia Vista Marine								450		150			600
	Cecil Co LF	500				480								980
	Locust Point Marina													0
	Stemmers Run TS													0
	Town of Elkton Pub Works						165							165
	Woodlawn Trans Station					300								300
Dorcester County	Beulah LF				150									150
	Cambridge WWTP										50			50
	City of Cambridge													0
	Golden Hill LF													0
	Secretary TS										55			55
Frederick County	Brunswick PW							300	400		325	350		1,375
	Ingram Shell	250												250
	Frederick County recycling	400	250		400		300	250			250			1,850
	Mt Airy Maint Fac	250		250		250			160		75			985
	Town fo Thurmont	150				55	100							305
Garrett County	Bumble Bee Site													0
	Garrett County													0
	Garrett highway Site					150								150
	Kings Run Site					90								90
	Route 135													0
	Town of Grantsville Site					135			380		150		120	785
Harford County	Abingdon Disctrict hwy Shop				270		100				150		120	640
	Aldino Highway Shop	200			200		70							470
	City of Havre De Grace WW Dept							220	1	200	270		370	1,061
	Jarrettsville Hwy Shop	150		300		350			200			150		1,150
	Joppatown WWTp	200				200								400
	Norrsville Em School							200	250		300		250	1,000
	Scarboro LF	265			275		275						55	870
	Sod Runn WWTP								55					55
	Town of Aberdeen PW	110								275			250	635
	Town of bel Air PW	250			250		200	200	150		150			1,200
	Whitefird hwy Shop	150			220		150							520
Kent County	Duck Puddle Drop off													0
	Haven Harbor Marina													0
	Nicholson Drop Off	200												200
	Sharptown Drop off													0
Prince George's County	Chellenham QWWTP							130			110			240
	City of Greenbelt PW	110												110
	City of Hyattsville PW							250	55		20			325
	City of laurel PW		280							55				335
	City of New Carrollton													0
	PG Cty Materials Recovery													0
	Town of Cheverly													0
	Town of Riverdale Park								80					80

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Queen Anne's County	Batts Neck TS				75				120					195
	Centreville TS			150										150
	Church Hill TS								110			50		160
	Glanding TS				55				70					125
	Grasonville TS								110					110
	Piney Narrows Yacht Haven													0
	Queen Anne's cty pub Landing													0
Somerset County	Chance TS													0
	City of Crisfield PW													0
	Dublin - Costen												35	35
	Marion - Crisfield TS													0
	Mt Vernon TS													0
	Somers Cove marina													0
St Mary's County	Charlotte Hall Conv Ctr				220		165							385
	MT Int Raceway				110						220			330
	Clements Conv				165									165
	Oakville Con Ctr				180		165				120			465
	Ridge Con Ctr				80						275			355
	St Andrew Conv Ctr			200			220		100		50			570
	St Andrew Veh main										150			150
	Valley Lee Con Ctr				110									110
Talbot County	Bellevue landing													0
	Dogwood Harbor													0
	Midshore I LF			200										200
	Neavitt Landing													0
	Oak Creek Landing													0
	Trapper landing										225			225
Washington County	40 West LF				250		250						50	550
	Dargan TS											50		50
	Greensburg TS						100	110	50					260
	Hancock LF											50		50
	Kaetzel TS						100							100
	Town of Boonsboro						400					50		450
Wicomico County	Airport TS													0
	Bivalve TS											35		35
	Delmar TS													0
	Fruitland TS				55							100		155
	Hebron TS													0
	Mardela Springs TS										500			500
	Newland Parl LF TS											40		40
	Parsonsburg TS						55							55
	Quantico TS											25		25
	Sharptown TS											40		40
	Wango TS						55							55
	Wicomico Cty SW & Recy			500	250									750

County	Location	January	February	March	April	May	June	July	August	September	October	November	December	Total
Worcester County	Berlin TS													0
	Central LF													0
	Pocomoke TS													0
	Snow Hill TS													0
	Worcester Cty PW		55								80			135
		January	February	March	April	May	June	July	August	September	October	November	December	2018 Total
Total Gallons		3,385	1,585	1,850	4,165	3,410	3,675	2,160	3,566	1,060	4,430	2,182	1,500	32,968