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Year 4 Massachusetts Small Municipal Separate Storm System Permit – Municipal Property Retrofits

Nitsch Engineering

Submitted to the Town of Oxford
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Nitsch #14845

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For the Town of Oxford

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1 Municipal Property Retrofits

The MS4 permit requires the Town of Oxford to identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs designed to reduce the frequency, volume, and pollutant loads of stormwater discharges to and from its MS4 area. These pollutant loads include both phosphorus and nitrogen for the Town of Oxford. Implementing these BMPs presents an opportunity for the Town to also work towards their reduction requirements for phosphorus and help to reduce nitrogen loads as well as requited by their Nitrogen Source Tracking and Lake Phosphorus Control Plan. Nitsch Engineering evaluated 109 town-owned parcels of the total 6,007 parcels in the town for potential retrofit opportunities. The intent is to select 5 sites for potential retrofit opportunities that will be further evaluated for BMP selection and design in subsequent reports.

1.1 Methodology

Nitsch Engineering evaluated town-owned parcels against several criteria to prioritize stormwater retrofit locations. Nitsch Engineering gave a score based on how well the criterion would improve success/efficiency of a retrofit on a town-owned parcel. Nitsch Engineering assigned each criteria a score that may have included a range to account for all possible values within that defined criterion. Some criteria were not assigned a score as these were for informational purposes only and may influence further decision making on BMP selection and design. Each of the 109 town-owned parcel's criteria scores were totaled, and the five highest scoring parcels were selected as having the highest probability of a successful stormwater retrofit. The criteria and corresponding source information are listed and described in Appendix A.

The scores for each criterion per location can be found in Appendix B. Note that the phosphorus or nitrogen loading rates are for town parcel watersheds, not just the parcel area. The watershed was found through the "watershed" function, using the MassGIS Lidar DEM as a base for flow direction. Each town parcel watershed was calculated individually and was not clipped to the boundary of the town.

For local decision making, considerations in this screening process can be further supplemented and fine-tuned based on local priorities. For some communities, localized flooding has been an important additional consideration and has been included in the scoring. In other situations, the PVPC has recommended that, where possible, communities add tree canopy analysis in the ranking. This allows investments for improved stormwater pollution control through vegetated systems to also mitigate heat island effects in neighborhoods where there are few trees. The stormwater retrofit prioritization will continue to be updated in future Permit years to adapt to local efforts in pursuit of the MS4 permit.

1.2 Priority Stormwater Retrofit Site Selection

After consideration of the criteria listed in Appendix A and score calculation for each parcel (Appendix B), Nitsch Engineering choose the top five (5) parcels (Table 1).

Table 1. Top 5 Oxford, MA BMP Retrofit Locations

LOC_ID	Address	Lake/Pond Watershed	Phosphorus Load lb/yr	Nitrogen Load lb/yr	Score
F_552838_2858456	0 Hardwood St	None	10083	102063	27
F_555766_2862385	0 Lowes St Roadway	None	1328	14032	25
F_556065_2880446	25 Depot Rd	None	11	113	24
F_557338_2873475	450 Main St	Lowes Pond	1	8	24
F_555871_2867501	34 Charlton St	None	98	702	24

The top scoring parcel held a score of 27 and the lowest scoring parcel held a score of 13. The maximum number of points that could have been awarded was 35. This ranking and scoring matrix are to be re-evaluated in the subsequent permit years to select BMP sites that will achieve the goals of the MS4 Permit. See Figure 1 below for the location of the sites.

Figure 1. Top 5 BMP Retrofit Sites

Appendix A – GIS Layers for Ranking of Town Owned Parcels

GIS Layers for Ranking of Town Owned Properties			
Evaluation Criteria	**Data Source**	**Description**	**Score Value for Prioritization**
WITHIN 100 FEET OF PRIORITY NATURAL COMMUNITIES AREA	MassGIS: BioMap2 | Mass.gov	MassGIS's BioMap2 dataset identifies areas with priority natural communities. Parcels within 100 feet of them were identified as less viable for retrofit locations.	Yes = 0 No = 1
WITHIN 100 FEET OF SPECIES OF CONSERVATION CONCERN AREA	MassGIS: BioMap2 | Mass.gov	MassGIS's BioMap2 dataset identifies areas with species of conservation concern. Parcels within 100 feet of them were identified as less viable for retrofit locations.	Yes = 0 No = 1
WITHIN 200 FEET OF A STREAM	MassGIS Data: MassDEP Wetlands (2005) | Mass.gov	MassDEP's Wetland dataset identifies streams as wetland connections as of 2017. Parcels within 200 feet of them were identified as less viable for retrofit locations.	Yes = 0 No = 1
WITHIN 100 FEET OF A WETLAND	MassGIS Data: MassDEP Wetlands (2005) | Mass.gov	MassDEP's Wetland dataset identifies wetland areas as of 2017. Parcels within 100 feet of them were identified as less viable for retrofit locations.	Yes = 0 No = 1
WITHIN 100 FEET OF CERTIFIED VERNAL POOL	MassGIS Data: NHESP Certified Vernal Pools | Mass.gov	Under the Massachusetts Wetland Protection Act, area within 100 ft of a certified vernal pool is protected and subjected to regulations under M.G.L.c. 131 § 40.	Yes = 0 No = 1
WITHIN A 2020 ENVIRONMENTAL JUSTICE POPULATION AREA	MassGIS Data: 2020 Environmental Justice Populations | Mass.gov	To ensure environmental justice and provide healthier environments to all, especially minorities, projects within environmental justice population areas were given a higher score.	Yes = 1 No = 0
DRAINAGE AREA TO PARCEL	MassGIS Data: Lidar Terrain Data | Mass.gov	To calculate the watershed attributing to each parcel to figure out the nitrogen and phosphorus load that a BMP on that parcel would capture.	N/A
NITROGEN LOAD POUNDS PER YEAR	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov MassGIS Data: Soils SSURGO-Certified NRCS | Mass.gov	Areas with higher nitrogen loading were given a higher score as those are the parcels that should be focused on for BMPs in accordance with the MS4 permit.	>100,000 = 5 >10,000 = 4 >1,000 = 3 >100 = 2 >0 = 1
PHOSPHORUS LOAD POUNDS PER YEAR	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov MassGIS Data: Soils	Areas with higher phosphorus loading were given a higher score as those are the parcels that we should focus on for	>10,000 = 5 >1,000 = 4 >500 = 3 >100 = 2 >0 = 1

GIS Layers for Ranking of Town Owned Properties			
Evaluation Criteria	**Data Source**	**Description**	**Score Value for Prioritization**
	SSURGO-Certified NRCS | Mass.gov	BMPs in accordance with the MS4 permit.	
WITHIN 15 FEET OF RIGHT OF WAY	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov	This measure ensures that there will be easy access to the parcel for upkeep and maintenance of the BMP.	Yes = 0 No = 1
AVAILABLE SQUARE FOOTAGE FOR RETROFIT WITHIN PARCEL	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov MassGIS Data: Building Structures (2-D) | Mass.gov	Provides an idea of how much area the Town may have to implement a BMP on the parcel excluding areas of buildings and wetlands. This scoring threshold may need to be re-evaluated if the parcel is selected for retrofit.	>10,000 sf = 1 <10,000 sf = 0
PRIMARY SOIL DRAIN CLASS WITHIN PARCEL	MassGIS Data: Soils SSURGO-Certified NRCS | Mass.gov	This information provides insight on how well the soils may drain and reflects how fast a BMP may drain.	Excessively Drained = 5 Somewhat Excessively Drained = 4 Well Drained = 3 Moderately Well Drained = 2 Poorly Drained = 1 Very Poorly Drained = 0
PRIMARY HYDROLOGIC SOIL GROUP WITHIN PARCEL	MassGIS Data: Soils SSURGO-Certified NRCS | Mass.gov	Hydrologic soil group provides insight on soil characteristics that reflect how well a BMP may perform in that area. This is for informational use as the drain class was used for scoring.	N/A
PRIMARY 2016 LAND USE WITHIN PARCEL	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov	This is an informative layer that may weigh on parcel selection later in the process but was currently not assigned a score.	N/A
PRIMARY 2016 LAND COVER WITHIN PARCEL	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov	Natural and undeveloped land covers were given a score of 0 because those should not be developed.	Impervious = 1 Developed Open Space = 1 Cultivated = 1 Pasture/Hay = 1 Grassland = 0 Deciduous = 0 Evergreen = 0 Shrub/Scrub = 0 Forested Palustrine = 0 Emergent Palustrine = 0 Forested Estuarine = 0 Shrub/Scrub Estuarine = 0 Emergent Estuarine = 0 Shored Unconsolidated = 0 Bare = 0
SQUARE FOOTAGE OF PARCEL IMPERVIOUS AREA	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov	This provides an idea of what kind of BMP can be implemented and will be used later for BMP design if the parcel is selected.	N/A
PERCENT OF PARCEL IMPERVIOUS AREA	MassGIS Data: 2016 Land Cover/Land Use | Mass.gov	This provides an idea of what kind of BMP can be implemented and will be used later for BMP design if the parcel is selected. If the area of impervious is greater than 25% of the parcel than	>25% = 1 <25% = 0

GIS Layers for Ranking of Town Owned Properties			
Evaluation Criteria	**Data Source**	**Description**	**Score Value for Prioritization**
		a BMP can be implemented on or under the pavement.	
WITHIN URBANIZED AREA (COMBINED 2000 AND 2010)	Layer: Urbanized Areas (ID: 4) (census.gov) Layer: Urbanized Areas (ID: 1) (census.gov)	Since the MS4 regulates urbanized area, parcels were given a higher score for being within it.	Within Urbanized Area = 1 Outside Urbanized Area = 0
WITHIN POND WATERSHED	StreamStats (usgs.gov)	The MS4 is focused on improving certain impaired waterbodies, it is important that the parcel selected for BMP implementation is within one of these watersheds to improve their health.	Within Pond Watershed = 1 Outside Pond Watershed = 0
NUMBER OF PUBLIC WATER SUPPLIES WITHIN PARCEL	MassGIS Data: Public Water Supplies | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0
WITHIN INTERIM WELLHEAD PROTECTION AREA	MassGIS Data: MassDEP Wellhead Protection Areas (Zone II, Zone I, IWPA) | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0
WITHIN WELLHEAD PROTECTION ZONE II	MassGIS Data: MassDEP Wellhead Protection Areas (Zone II, Zone I, IWPA) | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0
WITHIN WELLHEAD PROTECTION ZONE I	MassGIS Data: MassDEP Wellhead Protection Areas (Zone II, Zone I, IWPA) | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0
WITHIN SURFACE WATER PROTECTION ZONE A	MassGIS Data: Surface Water Supply Protection Areas (ZONE A, B, C) | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0
WITHIN SURFACE WATER PROTECTION ZONE B	MassGIS Data: Surface Water Supply Protection Areas (ZONE A, B, C) | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0
WITHIN SURFACE WATER PROTECTION ZONE C	MassGIS Data: Surface Water Supply Protection Areas (ZONE A, B, C) | Mass.gov	It is not preferred to be in a public water supply area and cause disruption or construction within those areas for the quality of the drinking water recharge.	Outside of Area = 1 Within Area = 0

GIS Layers for Ranking of Town Owned Properties			
Evaluation Criteria	**Data Source**	**Description**	**Score Value for Prioritization**
NUMBER OF BUILDINGS WITHIN THE PARCEL	MassGIS Data: Building Structures (2-D) | Mass.gov	This was important to know whether the parcel is accessed by the public so that it may also be used for an educational opportunity.	Buildings on Parcel = 1 None = 0

Appendix B – Site Selection Scoring Matrix

LOC_ID	Within 100' of Priority Natural Communities Area	Within 100' of Species of Conservation Concern Area	Within 200' of Stream	Within 100' of Wetland Area	Within Env Justice Groups 2020	Number of Buildings in Parcel	Within Surface Water Protection Zone A	Within Surface Water Protection Zone B	Within Surface Water Protection Zone C	Number of Public Water Supplies (Well)	Name of Pond Watershed Within	Within Urbanized Area (2000/2010)	% of Town Parcel Impervious	Area of Town Parcel Impervious (SF)	Within Wellhead Protection Zone I	Within Wellhead Protection Zone II	Interim Wellhead Protection Area (IWPA)	Primary 2016 Land Cover	Primary 2016 Land Use	Primary Hydrologic Soil Group	Primary Drain Class	Within 100' of Certified Vernal Pool	Available Area for Retrofit (SF) (No buildings or wetland)	Within 15' of Right of Way	Drainage Area to Parcel (Acres)	Nitrogen Load lb/yr	Phosphorus Load lb/yr
F_543700_2892754	0	0	0	7	5	0	0	0	0	0	0 Texas Pond	1	0	0	0	0	0	0 Deciduous Forest	Open land	D	Very poorly drained	0	325460.6499	6	261.5445413	664.0711442	63.23817094
F_546353_2893567	0	0	0	0	0	0	0	0	0	0	0 Texas Pond	1	3.579443218	2196.928198	0	0	0	1 Developed Open Space	Tax exempt	C/D	Moderately well drained	0	66963.74606	3	1.993426898	7.767620761	0.66256186
F_548132_2893013	0	0	0	0	0	0	0	0	0	0	0 Texas Pond	1	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	6967.307222	2	0.28184748	0.723498124	0.037595953
F_553152_2888848	0	0	0	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Open land	A	Somewhat excessively drained	0	35180.2858	1	3.925892297	11.11885306	1.097010547
F_548642_2887754	0	0	2	1	0	0	0	0	0	0	0 Texas Pond	1	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	44818.35326	3	35.26985049	75.67582282	8.865699823
F_554366_2887180	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Developed Open Space	Open land	C/D	Moderately well drained	0	447.9969704	0	0.388865043	1.164537521	0.057275027
F_551517_2884993	0	0	0	0	0	0	0	0	0	0	0	1	32.71462335	1386.720548	0	0	0	0 Developed Open Space	Open land	A	Somewhat excessively drained	0	4238.82665	3	0.407222725	1.417829856	0.186565486
F_549675_2883997	0	0	2	1	0	1	0	0	0	0	0	1	0.00076734	2.166963223	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	282398.7153	3	11.54725218	43.69490831	3.850322704
F_549149_2884522	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Evergreen Forest	Open land	C	Well drained	0	34294.25767	2	3.668801147	17.11341017	1.772765328
F_549728_2886376	0	0	1	1	0	0	0	0	0	0	0	1	33.42075296	2050.854734	0	0	0	0 Developed Open Space	Open land	B	Well drained	0	6136.465836	2	79.44656672	317.8808792	36.9651418
F_550328_2884054	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	8789.893548	0	0.543520404	1.189239774	0.145313893
F_546350_2882310	0	0	0	0	0	0	0	0	0	0	0 Buffumville Lake	0	0.008027627	2.214366808	0	0	0	0 Grassland	Open land	B	Well drained	0	27561.40035	3	0.833439178	1.167058947	0.112693916
F_545206_2885682	0	0	1	1	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	1445599.198	0	52.69071527	103.9425148	6.855032357
F_546668_2881308	0	0	1	0	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	22966.21349	1	5.178831678	12.97898069	0.693424339
F_546798_2882186	0	0	1	0	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Deciduous Forest	Open land	C/D	Moderately well drained	0	24501.71844	2	198.4384717	614.1852399	64.1080232
F_546886_2882268	0	0	1	1	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Deciduous Forest	Open land	C/D	Moderately well drained	0	26393.84586	3	196.6883484	609.6804918	63.88062922
F_547120_2882400	0	0	1	1	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Evergreen Forest	Open land	C	Well drained	0	51577.9373	2	194.7543006	603.5704069	63.45817215
F_547385_2882680	0	0	0	1	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Palustrine Forested Wetland	Open land	C	Well drained	0	4434.722569	0	1.42931039	3.434466635	0.193968598
F_547446_2882868	0	0	2	1	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Palustrine Forested Wetland	Open land	C/D	Moderately well drained	0	66356.7353	2	178.9345199	552.2535882	59.41914479
F_547435_2883064	0	0	2	1	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Palustrine Forested Wetland	Open land	C/D	Moderately well drained	0	17036.47951	2	111.254947	189.5677779	19.12517465
F_548199_2882752	0	0	0	0	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	3743.038545	0	1.35536792	3.917181101	0.462614215
F_548299_2882747	0	0	0	0	0	0	0	0	0	0	0 Buffumville Lake	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	13091.35648	0	1.586969618	4.614556854	0.526923559
F_552514_2881752	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Open land	A	Somewhat excessively drained	0	5010.299382	2	0.168499481	0.112748461	0.030107938
F_552508_2883166	0	0	1	2	0	5	0	0	0	0	0	1	26.33814535	102320.0095	0	0	0	0 Developed Open Space	Tax exempt	B	Well drained	0	373100.5481	4	45.10429954	134.3038408	12.01998366
F_556065_2880446	0	0	0	0	0	2	0	0	0	0	0	1	35.45301857	134180.0519	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	324946.5461	3	37.09197356	112.96347	10.54477982
F_565783_2881200	0	0	2	2	1	0	0	0	0	0	0	0	0.072476535	527.6419006	0	0	0	0 Pasture/Hay	Open land	C	Well drained	0	728017.3015	4	26.450909	70.76797237	8.474891662
F_566145_2881669	0	0	0	0	1	0	0	0	0	0	0	0	0.475198883	879.9041537	0	0	0	0 Grassland	Open land	C	Well drained	0	185165.8955	4	13.98562921	44.97299726	4.979419289
F_567246_2881296	0	0	1	1	0	0	0	0	0	0	0	0	0.000374724	3.719296119	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	992542.9938	3	38.04337564	96.6931174	6.327819238
F_558395_2876151	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0 Deciduous Forest	Open land	A	Somewhat excessively drained	0	14298.82421	3	10.62855329	37.53702191	3.055838268
F_556208_2878888	0	1	0	0	0	0	0	0	0	0	0	1	0.019198369	1.952137888	0	1	0	0 Deciduous Forest	Residential - single family	A	Somewhat excessively drained	0	10168.24736	2	66.98447789	240.0499399	33.94852768
F_556637_2880397	0	0	0	0	0	0	0	0	0	0	0	1	58.07226828	6682.884392	0	1	0	0 Impervious	Open land	A	Somewhat excessively drained	0	11503.46182	3	0.39475665	2.614813982	0.309680879
F_554880_2876071	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0 Evergreen Forest	Open land	A	Somewhat excessively drained	0	150208.7323	0	6.341374292	5.841688853	0.962596657
F_555740_2876253	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0 Evergreen Forest	Open land	A	Somewhat excessively drained	0	13861.34236	0	7.311136196	19.71620701	2.670241883
F_551522_2878223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	463693.2092	0	10.9601818	23.15385175	1.424823634
F_547943_2871480	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	195789.4883	0	8.85955859	16.06997012	1.151742617
F_553906_2874229	1	1	1	4	0	1	0	0	0	0	0	1	0.10375619	1033.742504	0	0	0	0 Deciduous Forest	Open land	A	Somewhat excessively drained	0	996293.5578	0	671.1836929	1164.212744	165.1949146
F_556091_2874903	0	0	0	1	0	0	0	0	0	0	0	1	0.855680724	471.003827	0	0	0	0 Evergreen Forest	Unknown	A	Somewhat excessively drained	0	55044.41164	0	23.89927276	88.8267298	11.55779201
F_556989_2873986	0	0	1	0	0	0	0	0	0	0	0	1	0.314388592	257.2106413	0	1	0	0 Deciduous Forest	Open land	A	Somewhat excessively drained	0	81812.99988	3	19.96644557	77.52567391	11.08460426
F_555729_2875887	0	1	0	1	0	3	0	0	0	0	0	1	13.32144872	145058.2913	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	1081819.481	2	25.2372168	54.81762103	7.310037213
F_556452_2875677	0	0	0	0	0	1	0	0	0	0	0	1	41.35366122	20073.95446	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	37125.77541	2	1.85394099	8.035801207	0.993933645
F_555478_2875043	0	1	0	2	0	8	0	0	0	0	0	1	31.26009609	357525.8949	0	0	0	0 Developed Open Space	Open land	A	Somewhat excessively drained	0	996972.698	3	97.36808381	302.6365647	39.93040481
F_554692_2875377	1	1	1	2	0	1	0	0	0	0	0	1	9.967452804	79330.34228	0	1	0	0 Evergreen Forest	Tax exempt	A	Excessively drained	2	769314.2664	0	813.16816	1711.231249	199.5875026
F_554319_2874873	1	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Evergreen Forest	Open land	B/D	Very poorly drained	0	11387.12724	0	15557.74867	42163.1489	4126.139005
F_556526_2876215	0	1	1	0	0	0	0	0	0	0	0	1	26.73291911	36058.61428	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	67413.00839	2	5.715291005	29.51496136	3.915975149
F_556526_2876215	0	1	1	0	0	0	0	0	0	0	0	1	26.73291911	36058.61428	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	67413.00839	2	5.715291005	29.51496136	3.915975149
F_559665_2873361	0	0	1	1	1	0	0	0	0	0	0 Lowes Pond	0	0	0	0	0	0	0 Palustrine Forested Wetland	Open land	C/D	Moderately well drained	0	197740.4133	3	64.00001782	212.2085273	17.0721926
F_560867_2873230	0	0	1	0	1	0	0	0	0	0	0 Lowes Pond	0	3.092833455	265.483012	0	0	0	0 Deciduous Forest	Open land	C/D	Moderately well drained	0	8585.166285	0	0.512055993	1.752976998	0.103546169
F_560550_2873156	0	0	0	0	1	0	0	0	0	0	0 Lowes Pond	0	7.014040177	184.0265139	0	0	0	0 Developed Open Space	Open land	C	Well drained	0	2623.015814	3	0.575484197	2.497398775	0.258575826
F_554781_2871780	0	0	1	4	0	0	0	0	0	0	0 McKinstry Pond	1	0	0	0	0	1	0 Palustrine Scrub/Shrub Wetland	Open land	B/D	Very poorly drained	0	546364.9871	4	49.28936428	74.47319679	11.25162187
F_557338_2873475	0	0	0	0	0	1	0	0	0	0	0 Lowes Pond	1	43.59110939	16770.9036	0	0	1	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	33643.06611	3	1.341475737	7.782733407	1.011129363
F_556201_2871585	0	0	4	3	0	0	0	0	0	0	0 McKinstry Pond	1	0.069624043	564.123089	0	0	1	0 Water	Open land	Unknown		0	810215.4485	5	24.60111527	16.71704723	2.576671809
F_555424_2871384	0	0	1	2	0	0	0	0	0	0	0 McKinstry Pond	1	1.016809672	238.5629646	0	0	1	0 Evergreen Forest	Open land	B/D	Very poorly drained	0	23457.26471	0	8.586390492	23.61664887	3.209162658
F_553938_2870622	0	0	2	2	0	1	0	0	0	0	0	1	0.047156244	348.0275664	0	0	0	0 Deciduous Forest	Open land	Unknown		0	737909.0451	4	837.7812485	1343.058481	192.8065165
F_553923_2870021	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Open land	Unknown		0	28164.48672	0	23.5015316	62.44962131	9.270968026
F_555871_2867501	0	0	0	0	0	4	0	0	0	0	0	1	86.35269378	61262.37998	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	52183.9762	2	251.2035541	702.2469482	98.28692054
F_555694_2867399	0	0	0	0	0	1	0	0	0	0	0	1	7.067268016	3481.850044	0	1	0	0 Developed Open Space	Open land	A	Somewhat excessively drained	0	49245.91882	3	253.4674142	710.0775649	99.32288023
F_556901_2867471	0	0	0	0	1	3	0	0	0	0	0	1	70.29214956	8639.283511	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	8096.164697	2	0.533203232	5.216334764	0.71481819
F_555002_2866202	0	0	0	0	0	1	0	0	0	0	0	1	46.21547199	3369.905958	0	1	0	0 Impervious	Residential - single family	A	Somewhat excessively drained	0	6191.801942	3	0.247669693	1.394726962	0.202087731
F_556732_2869373	0	0	0	0	0	1	0	0	0	0	0	1	0.375408552	590.937069	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	157184.3891	3	8.908365735	29.25218222	4.191732208
F_556403_2869246	0	0	1	2	0	3	0	0	0	0	0 McKinstry Pond	1	32.43851683	178217.4343	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	523457.2619	4	48.94539154	152.0510645	20.14624321
F_557509_2869588	0	0	0	0	0	4	0	0	0	0	0 Lowes Pond	1	13.98779412	3472.79731	0	1	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	22722.20294	3	0.632662	1.572336525	0.213987494
F_557458_2869400	0	0	0	0	0	0	0	0	0	0	0 Lowes Pond	1	0.247638614	67.57850999	0	1	0	0 Deciduous Forest	Open land	A	Somewhat excessively drained	0	27285.14833	4	1.599354495	7.373631519	1.086827093
F_559279_2869453	0	0	0	1	1	0	0	0	0	0	0 Lowes Pond	0	0	0	0	0	1	0 Palustrine Forested Wetland	Open land	B/D	Very poorly drained	0	31957.1997	3	4.786543149	8.799201183	1.007325258
F_557101_2868431	0	0	0	0	0	1	0	0	0	0	0 Lowes Pond	1	51.83026829	18158.81324	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	27094.0383	3	1.048266951	7.521343348	0.984569113
F_556895_2868222	0	0	0	0	0	1	0	0	0	0	0	1	72.53122735	22084.56713	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	30412.59356	3	0.845799436	8.931222213	1.12934567
F_557059_2868110	0	0	0	0	0	1	0	0	0	0	0 Lowes Pond	1	83.96632494	32099.83254	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	31943.56997	2	1.12361656	12.64302579	1.603020976
F_556896_2868055	0	0	0	0	0	1	0	0	0	0	0	1	54.79894842	9107.917844	0	1	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	11175.08263	0	0.461469523	3.07765688	0.396657606
F_569076_2869401	0	2	5	1	0	0	0	0	0	0	0 Lowes Pond	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	997524.0335	4	73.34523739	173.7022122	10.27691792
F_568219_2870806	0	0	4	9	1	0	0	0	0	0	0 Lowes Pond	0	0	0	0	0	0	0 Palustrine Emergent Wetland	Open land	B/D	Very poorly drained	0	4213967.304	3	230.158748	489.2723157	34.41377598
F_568454_2867256	0	0	3	1	1	1	0	0	0	0	0 Lowes Pond	0	0	0	0	0	0	0 Water	Open land	Unknown		0	1707824.365	0	449.6227706	793.6582368	56.80408041
F_568315_2864979	0	0	0	0	1	1	0	0	0	0	0 Robinson Pond	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	27411.23696	1	1.15022476	2.494835443	0.244267482
F_565810_2863996	0	0	0	2	1	0	0	0	0	0	0 Robinson Pond	1	0	0	0	0	0	0 Evergreen Forest	Open land	C	Well drained	0	74638.23324	0	304.1147558	494.2958395	44.908133
F_565320_2865488	0	0	1	1	1	0	0	0	0	0	0 Lowes Pond	1	0.243594633	160.9876341	0	0	0	0 Deciduous Forest	Open land	C/D	Moderately well drained	0	60088.29672	2	777.1250098	1527.042592	138.7021771
F_561959_2861234	0	0	0	0	1	0	0	0	0	0	0 Lowes Pond	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	377723.8121	3	10.83636111	31.29839433	3.372304718
F_555896_2864398	0	0	0	0	0	3	0	0	0	0	0	1	36.29622539	166042.1249	0	2	0	0 Developed Open Space	Tax exempt	A	Somewhat excessively drained	0	399759.2613	3	18.07384709	90.45151527	12.06906656
F_556456_2863446	0	0	0	0	0	2	0	0	0	0	0	1	72.77432934	26705.49683	0	2	0	0 Impervious	Tax exempt	A	Somewhat excessively drained	0	28318.41273	2	5.925029594	14.62464469	2.046437332
F_555750_2863438	0	0	3	2	0	4	0	0	0	0	0	1	2.164746129	32530.60419	0	2	0	0 Developed Open Space	Tax exempt	A	Excessively drained	0	1499786.209	5	38.05857489	31.05394535	5.345434028
F_556358_2861578	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0 Deciduous Forest	Open land	A	Excessively drained	0	7860.702451	3	8.434061089	43.02739005	6.169531688
F_558789_2862247	0	0	0	0	0	0	0	0	0	0	0	1	5.183955267	171.6643853	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	3311.360023	2	0.338079377	0.871844668	0.066765305
F_558724_2862110	0	0	0	0	0	0	0	0	0	0	0	1	2.605264763	104.4103085	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	4007.655464	2	0.182784544	0.309954118	0.028649117
F_553226_2862615	0	1	0	0	0	0	0	0	0	0	0	1	55.19155602	54210.40755	0	2	0	0 Impervious	Right-of-way	A	Somewhat excessively drained	0	98120.18952	5	26.91122813	107.7983298	15.52747541
F_553025_2861553	0	1	2	5	0	0	0	0	0	0	0	1	0	0	0	2	0	0 Palustrine Forested Wetland	Open land	B/D	Very poorly drained	0	675036.9082	0	83.54942957	168.9355848	23.93091088
F_553560_2862781	0	0	0	0	0	0	0	0	0	0	0	1	61.543157	2743.785842	0	1	0	0 Impervious	Right-of-way	A	Somewhat excessively drained	0	4459.165207	3	0.51561074	3.396907515	0.467862166
F_554355_2865207	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0 Deciduous Forest	Open land	Unknown		0	3387.018631	0	1.520702275	4.131000219	0.625060232
F_555766_2862385	0	0	1	2	0	0	0	0	0	0	0	1	0	0	0	2	0	0 Deciduous Forest	Open land	A	Excessively drained	0	311901.7124	1	5189.542841	14032.57013	1327.867003
F_546452_2860635	0	0	1	2	0	0	0	0	0	0	0 Buffumville Lake	1	0	0	0	0	0	0 Palustrine Forested Wetland	Open land	D	Very poorly drained	0	70202.42605	3	11.93313461	41.30868777	3.741497147
F_546907_2860190	0	0	0	1	0	0	0	0	0	0	0 Buffumville Lake	1	0	0	0	0	0	0 Evergreen Forest	Open land	C	Well drained	0	64448.24313	4	9.258972117	38.14114282	4.110480513
F_555058_2861222	0	0	2	2	0	0	0	0	0	0	0	1	1.329132323	1620.200399	0	2	0	0 Palustrine Forested Wetland	Open land	B/D	Very poorly drained	0	121896.5425	4	5364.1556	14500.62663	1389.256301
F_555399_2861526	0	0	2	2	0	0	0	0	0	0	0	1	0.16567458	346.9973099	0	2	0	0 Palustrine Emergent Wetland	Open land	B/D	Very poorly drained	0	209445.2869	5	154.8320652	389.5659063	49.8502343
F_561646_2859847	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 Deciduous Forest	Open land	C	Well drained	0	9732.809865	1	0.843826381	2.013655089	0.163476353
F_561280_2859548	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	29247.33198	2	8.521312112	21.66285433	2.05601874
F_561230_2857446	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	293899.5527	0	17.23932515	22.54051045	2.237449424
F_560703_2856914	0	0	1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0 Deciduous Forest	Tax exempt	B	Well drained	0	2227093.063	0	58.12459988	94.2945455	7.587031648
F_565904_2859557	0	1	0	1	1	0	0	0	0	0	0 Robinson Pond	1	0	0	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	466711.168	0	13.92121523	25.13844569	1.92788459
F_555650_2856051	0	0	2	2	0	0	0	0	0	0	0	1	0.228385285	119.9207109	0	1	0	0 Deciduous Forest	Open land	A	Excessively drained	0	52504.08851	3	2.193281142	5.78168375	0.952879435
F_558185_2857434	0	0	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1 Deciduous Forest	Open land	C	Well drained	0	454689.1089	4	496.166666	1535.07907	141.9456056
F_559045_2856647	0	0	0	0	0	0	0	0	0	0	0	1	4.847180535	2388.742479	0	0	0	0 Deciduous Forest	Open land	B	Well drained	0	49305.76583	2	4.858896142	19.69918848	2.351667451
F_557838_2856679	0	0	1	2	0	0	0	0	0	0	0	1	0.569945397	120.6657366	0	0	0	1 Deciduous Forest	Open land	C	Well drained	0	21177.8266	2	23.72823975	185.3622289	21.35715391
F_557924_2856721	0	0	3	2	0	0	0	0	0	0	0	1	0.907102137	187.0226139	0	0	0	1 Deciduous Forest	Open land	C	Well drained	0	20621.78064	3	26.29218545	199.7986377	22.91853049
F_557924_2856405	0	0	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1 Deciduous Forest	Open land	C	Well drained	0	36769.25876	2	3.624944181	20.76467251	2.261247469
F_555812_2855749	0	0	0	0	0	0	0	0	0	0	0	1	0.093596094	20.33361155	0	1	0	0 Evergreen Forest	Open land	A	Somewhat excessively drained	0	21724.87146	4	1.220100456	4.060430751	0.669156457
F_555786_2855189	0	0	0	0	0	0

LOC_ID	Within 100' of Priority Natural Communities Area	Within 100' of Species of Conservation Concern Area	Within 200' of Stream	Within 100' of Wetland Area	Within Env Justice Groups 2020	Buildings in Parcel	Within Surface Water Protection Zone A	Within Surface Water Protection Zone B	Within Surface Water Protection Zone C	Number of Public Water Supplies (Well)	Within a Pond Watershed	Within Urbanized Area (2000/2010)	% Town Parcel Impervious	Within Wellhead Protection Zone I	Within Wellhead Protection Zone II	Interim Wellhead Protection Area (IWPA)	Primary 2016 Land Cover	Primary Drain Class	Within 100' of Certified Vernal Pool	Available Area for Retrofit (No buildings or wetland)	Within 15' of Right of Way	Nitrogen Load	Phosphorus Load	Totals
F_552838_2858456	1	0	0	1	0	0	1	1	1	1	0	1	0	1	0	1	0	5	1	1	1	5	5	27
F_555766_2862385	1	1	0	0	0	0	1	1	1	1	0	1	0	1	0	1	0	5	1	1	1	4	4	25
F_556065_2880446	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	2	1	24
F_557338_2873475	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	4	1	1	1	1	1	24
F_555871_2867501	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	2	1	24
F_557101_2868431	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	4	1	1	1	1	1	24
F_557059_2868110	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1	4	1	1	1	1	1	24
F_556452_2875677	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	1	1	23
F_555478_2875043	1	0	1	0	0	1	1	1	1	1	0	1	1	1	1	1	1	4	1	1	1	2	1	23
F_555694_2867399	1	1	1	1	0	1	1	1	1	1	0	1	0	1	0	1	1	4	1	1	1	2	1	23
F_556901_2867471	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	4	1	0	1	1	1	23
F_556403_2869246	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	1	1	4	1	1	1	2	1	23
F_557509_2869588	1	1	1	1	0	1	1	1	1	1	1	1	0	1	0	1	1	4	1	1	1	1	1	23
F_556895_2868222	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	1	1	23
F_556456_2863446	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	1	1	23
F_551517_2884993	1	1	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	4	1	0	1	1	1	22
F_552508_2883166	1	1	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	3	1	1	1	2	1	22
F_556637_2880397	1	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	1	1	22
F_555002_2866202	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	0	1	1	1	22
F_556732_2869373	1	1	1	1	0	1	1	1	1	1	0	1	0	1	0	1	1	4	1	1	1	1	1	22
F_556896_2868055	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	4	1	1	0	1	1	22
F_568315_2864979	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	3	1	1	1	1	1	22
F_565320_2865488	1	1	0	0	1	0	1	1	1	1	1	1	0	1	1	1	0	2	1	1	1	3	2	22
F_561959_2861234	1	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	0	3	1	1	1	1	1	22
F_553226_2862615	1	0	1	1	0	0	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	2	1	22
F_552851_2858184	1	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	0	5	1	1	1	1	1	22
F_560550_2873156	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1	1	3	1	0	1	1	1	21
F_557458_2869400	1	1	1	1	0	0	1	1	1	1	1	1	0	1	0	1	0	4	1	1	1	1	1	21
F_565810_2863996	1	1	1	0	1	0	1	1	1	1	1	1	0	1	1	1	0	3	1	1	0	2	1	21
F_555750_2863438	1	1	0	0	0	1	1	1	1	1	0	1	0	1	0	1	1	5	1	1	1	1	1	21
F_553560_2862781	1	1	1	1	0	0	1	1	1	1	0	1	1	1	0	1	1	4	1	0	1	1	1	21
F_555650_2856051	1	1	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	5	1	1	1	1	1	21
F_546353_2893567	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	0	1	2	1	1	1	1	1	20
F_548132_2893013	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	0	3	1	0	1	1	1	20
F_549728_2886376	1	1	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	3	1	0	1	2	1	20
F_546350_2882310	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	1	1	1	1	20
F_546668_2881308	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	1	1	1	1	20
F_566145_2881669	1	1	1	1	1	0	1	1	1	1	0	0	0	1	1	1	0	3	1	1	1	1	1	20
F_558395_2876151	1	1	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	1	1	1	20
F_556208_2878888	1	0	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	1	2	1	20
F_553906_2874229	0	0	0	0	0	1	1	1	1	1	0	1	0	1	1	1	0	4	1	1	0	3	2	20
F_555729_2875887	1	0	1	0	0	1	1	1	1	1	0	1	0	1	0	1	1	4	1	1	1	1	1	20
F_556526_2876215	1	0	0	1	0	0	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	1	1	20
F_556526_2876215	1	0	0	1	0	0	1	1	1	1	0	1	1	1	0	1	1	4	1	1	1	1	1	20
F_569076_2869401	1	1	0	0	1	0	1	1	1	1	1	0	0	1	1	1	0	3	1	1	1	2	1	20
F_556358_2861578	1	1	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	5	1	0	1	1	1	20
F_546907_2860190	1	1	1	0	0	0	1	1	1	1	1	1	0	1	1	1	0	3	1	1	1	1	1	20
F_555058_2861222	1	1	0	0	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	1	1	4	4	20
F_558185_2857434	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	0	0	3	1	1	1	3	2	20
F_559045_2856647	1	1	1	1	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	1	1	1	1	20
F_555812_2855749	1	1	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	1	1	1	20
F_555786_2855189	1	1	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	1	1	1	20
F_560363_2865494	1	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	3	3	20
F_553152_2888848	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	1	0	4	1	1	1	1	1	19
F_548642_2887754	1	1	0	0	0	0	1	1	1	1	1	1	0	1	1	1	0	3	1	1	1	1	1	19
F_546798_2882186	1	1	0	1	0	0	1	1	1	1	1	0	0	1	1	1	0	2	1	1	1	2	1	19
F_547120_2882400	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	1	1	2	1	19
F_548299_2882747	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	1	0	1	1	19
F_565783_2881200	1	1	0	0	1	0	1	1	1	1	0	0	0	1	1	1	1	3	1	1	1	1	1	19
F_556091_2874903	1	1	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	4	1	1	0	1	1	19
F_556989_2873986	1	1	0	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	1	1	1	19
F_554692_2875377	0	0	0	0	0	1	1	1	1	1	0	1	0	1	0	1	0	5	0	1	0	3	2	19
F_554319_2874873	0	0	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	0	1	1	0	4	4	19
F_559665_2873361	1	1	0	0	1	0	1	1	1	1	1	0	0	1	1	1	0	2	1	1	1	2	1	19
F_553938_2870622	1	0	1	0	0	1	1	1	1	1	0	1	0	1	1	1	0	0	1	1	1	3	2	19
F_555896_2864398	1	1	1	1	0	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	1	1	19
F_558789_2862247	1	1	1	1	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	0	1	1	1	19
F_558724_2862110	1	1	1	1	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	0	1	1	1	19
F_561646_2859847	1	1	1	1	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	0	1	1	1	19
F_561280_2859548	1	1	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	1	1	1	1	19
F_565904_2859557	1	0	1	0	1	0	1	1	1	1	1	1	0	1	1	1	0	3	1	1	0	1	1	19
F_549675_2883997	1	1	0	0	0	1	1	1	1	1	0	0	0	1	1	1	0	3	1	1	1	1	1	18
F_545206_2885682	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	1	0	2	1	18
F_546886_2882268	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	2	1	1	1	2	1	18
F_547446_2882868	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	2	1	1	1	2	1	18
F_547435_2883064	1	1	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	2	1	1	1	2	1	18
F_548199_2882752	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	0	0	1	1	18
F_567246_2881296	1	1	0	0	1	0	1	1	1	1	0	0	0	1	1	1	0	3	1	1	1	1	1	18
F_554880_2876071	1	0	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	0	1	1	18
F_555740_2876253	1	0	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	4	1	1	0	1	1	18
F_551522_2878223	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	0	3	1	1	0	1	1	18
F_547943_2871480	1	1	1	1	0	0	1	1	1	1	0	0	0	1	1	1	0	3	1	1	0	1	1	18
F_560867_2873230	1	1	0	1	1	0	1	1	1	1	1	0	0	1	1	1	0	2	1	0	1	1	1	18
F_561230_2857446	1	1	1	0	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	1	0	1	1	18
F_557838_2856679	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	0	0	3	1	1	1	2	1	18
F_557924_2856721	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	0	0	3	1	1	1	2	1	18

F_553269_2858272	1	0	0	0	0	1	1	1	1	1	0	0	0	1	0	1	0	5	1	1	1	1	1	18
F_553394_2858037	1	0	1	0	0	0	1	1	1	1	0	0	0	1	0	1	0	5	1	1	1	1	1	18
F_543700_2892754	1	1	0	0	0	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	2	1	17
F_554366_2887180	1	1	0	1	0	0	1	1	1	1	0	1	0	1	1	1	1	2	1	0	0	1	1	17
F_549149_2884522	1	1	0	0	0	0	1	1	1	1	0	0	0	1	1	1	0	3	1	1	1	1	1	17
F_550328_2884054	1	1	0	1	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	0	0	1	1	17
F_547385_2882680	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	1	0	3	1	0	0	1	1	17
F_552514_2881752	1	0	0	0	0	0	1	1	1	1	0	1	0	1	1	1	0	4	1	0	1	1	1	17
F_568219_2870806	1	1	0	0	1	0	1	1	1	1	1	0	0	1	1	1	0	0	1	1	1	2	1	17
F_568454_2867256	1	1	0	0	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	1	0	2	1	17
F_560703_2856914	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	1	0	3	1	1	0	1	1	17
F_557924_2856405	1	1	0	0	0	0	1	1	1	1	0	1	0	1	1	0	0	3	1	1	1	1	1	17
F_559279_2869453	1	1	1	0	1	0	1	1	1	1	1	0	0	1	0	1	0	0	1	1	1	1	1	16
F_546452_2860635	1	1	0	0	0	0	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	16
F_554781_2871780	1	1	0	0	0	0	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	15
F_556201_2871585	1	1	0	0	0	0	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	15
F_555424_2871384	1	1	0	0	0	0	1	1	1	1	1	1	0	1	0	1	0	0	1	1	1	1	1	15
F_553923_2870021	1	0	1	0	0	1	1	1	1	1	0	1	0	1	1	1	0	0	1	1	0	1	1	15
F_555399_2861526	1	1	0	0	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	1	1	2	1	15
F_552208_2853863	1	0	0	0	0	0	1	1	1	1	0	0	0	1	0	1	0	3	1	1	1	1	1	15
F_554355_2865207	1	1	1	1	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	0	0	1	1	14
F_553025_2861553	1	0	0	0	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	1	0	2	1	13
F_554000_2858187	1	0	1	0	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	1	0	1	1	13
F_551920_2858411	1	0	1	0	0	0	1	1	1	1	0	1	0	1	0	1	0	0	1	0	1	1	1	13