Appendix B – Land Use in Local Basins

This Appendix presents the land use classification descriptions and land use analysis of each of the local basins, organized by subregional basins.

Table B1: Classification Description (NLCD 2011)
Water
Open Water - areas of open water, generally with less than 25% cover of vegetation or soil.
Developed
Developed , Open Space - areas with a mixture of some constructed materials, but mostly vegetation in the form of lawn grasses. Impervious surfaces account for less than 20% of total cover. These areas most commonly include large-lot single-family housing units, parks, golf courses, and vegetation planted in developed settings for recreation, erosion control, or aesthetic purposes.
Developed, Low Intensity - areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 20% to 49% percent of total cover. These areas most commonly include single-family housing units.
Developed , Medium Intensity -areas with a mixture of constructed materials and vegetation. Impervious surfaces account for 50% to 79% of the total cover. These areas most commonly include single-family housing units.
Developed High Intensity -highly developed areas where people reside or work in high numbers. Examples include apartment complexes, row houses and commercial/industrial. Impervious surfaces account for 80% to 100% of the total cover.
Barren
Barren Land (Rock/Sand/Clay) - areas of bedrock, desert pavement, scarps, talus, slides, volcanic material, glacial debris, sand dunes, strip mines, gravel pits and other accumulations of earthen material. Generally, vegetation accounts for less than 15% of total cover.
Forest
Deciduous Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species shed foliage simultaneously in response to seasonal change.
Evergreen Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. More than 75% of the tree species maintain their leaves all year. Canopy is never without green foliage.
Mixed Forest - areas dominated by trees generally greater than 5 meters tall, and greater than 20% of total vegetation cover. Neither deciduous nor evergreen species are greater than 75% of total tree cover.
Shrubland
Shrub/Scrub - areas dominated by shrubs; less than 5 meters tall with shrub canopy typically greater than 20% of total vegetation. This class includes true shrubs, young trees in an early successional stage or trees stunted from environmental conditions.
Herbaceous
Grassland/Herbaceous - areas dominated by gramanoid or herbaceous vegetation, generally greater than 80% of total vegetation. These areas are not subject to intensive management such as tilling, but can be utilized for grazing.
Planted/Cultivated
Pasture/Hay -areas of grasses, legumes, or grass-legume mixtures planted for livestock grazing or the production of seed or hay crops, typically on a perennial cycle. Pasture/hay vegetation accounts for greater than 20% of total vegetation.
Cultivated Crops -areas used for the production of annual crops, such as corn, soybeans, vegetables, tobacco, and cotton, and also perennial woody crops such as orchards and vineyards. Crop vegetation accounts for greater than 20% of total vegetation. This class also includes all land being actively tilled.
Wetlands
Woody Wetlands - areas where forest or shrubland vegetation accounts for greater than 20% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.
Emergent Herbaceous Wetlands - Areas where perennial herbaceous vegetation accounts for greater than 80% of vegetative cover and the soil or substrate is periodically saturated with or covered with water.

Poland River Subregional Basin

4313-00

Local basin 4313-00 is predominantly deciduous forest (71%). The remaining land use is mostly split among developed open space such as lawns as well as woody wetlands and pasture.

	Acres	Percent
Open Water	64.0	2%
Developed, Open Space	194.4	7%
Developed, Low Intensity	82.0	3%
Developed, Medium Intensity	9.8	0%
Deciduous Forest	2105.9	71%
Evergreen Forest	66.4	2%
Mixed Forest	43.5	1%
Scrub/Shrub	18.0	1%
Grassland/Herbaceous	1.8	0%
Pasture/Hay	174.4	6%
Cultivated Crops	2.7	0%
Woody Wetlands	180.6	6%
Emergent Herbaceous Wetlands	36.0	1%
	2979	~100%

4313-01

At 88%, the vast majority of land use in local basin 4313-01 is deciduous forest. Open water composes 5% of the basin with the remaining area split among woody wetlands, pasture, developed open space, evergreen forest, and areas dominated by shrubs.

	Acres	Percent
Open Water	40.1	5%
Developed, Open Space	3.8	1%
Deciduous Forest	654.9	88%
Evergreen Forest	9.6	1%
Scrub/Shrub	4.5	1%
Pasture/Hay	15.8	2%
Woody Wetlands	13.1	2%
	742	~100%

Deciduous forest nearly envelops local basin 4313-02 at 89%. Open water follows at 6% with the remaining 5% split among evergreen and mixed forests as well as woody wetlands.

	Acres	Percent
Open Water	19.6	6%
Deciduous Forest	0.2	89%
Evergreen Forest	301.3	2%
Mixed Forest	7.4	2%
Woody Wetlands	7.2	1%
	339	~100%

4313-03

Local basin 4313-03 is predominantly deciduous forest, as only a quarter of the basin is split among other land use categories including evergreen forest (6%) and woody wetlands (5%). Developed open space covers about 20 acres (4%) while pasture/hay, mixed forest, low intensity developed land, scrub/shrub and open water compose the remaining fractions of the basin's land use.

	Acres	Percent
Open Water	1.1	0%
Developed, Open Space	19.9	4%
Developed, Low Intensity	9.8	2%
Deciduous Forest	368.6	75%
Evergreen Forest	29.7	6%
Mixed Forest	8.3	2%
Scrub/Shrub	3.8	1%
Pasture/Hay	21.0	4%
Woody Wetlands	26.3	5%
	489	~100%

Local basin 4313-04 maintains a somewhat diverse land use character for the Poland River subregional watershed. While deciduous forest covers 57% of the basin, the remaining half is composed of developed open space, open water, low intensity developed land (such as single-family residences and parks), and evergreen forest.

	Acres	Percent
Open Water	195.6	10%
Developed, Open		11%
Space	209.6	
Developed, Low		7%
Intensity	128.2	
Developed, Medium		2%
Intensity	48.1	
Developed, High		0%
Intensity	5.1	
Deciduous Forest	1110.0	57%
Evergreen Forest	109.5	6%
Mixed Forest	12.0	1%
Scrub/Shrub	22.7	1%
Grassland/Herbaceous	1.8	0%
Pasture/Hay	52.5	3%
Cultivated Crops	7.3	0%
Woody Wetlands	31.6	2%
	1934	~100%

Coppermine Brook Subregional Basin

4314-00

Local basin 4314-00 is dominated by development of low and medium intensities as well as open land (30%, 20%, and 18%, respectively). Deciduous forest makes up 19% of the basin, with small amounts of several categories including woody wetlands, pasture, and evergreen forest comprising the remainder.

	Acres	Percent
Open Water	107	0%
Developed, Open Space	401.7	18%
Developed, Low Intensity	684.0	30%
Developed, Medium Intensity	447.2	20%
Developed, High Intensity	39.1	2%
Barren Land	3.3	0%
Deciduous Forest	444.3	19%
Evergreen Forest	42.9	2%
Mixed Forest	21.1	1%
Scrub/Shrub	29.1	1%
Pasture/Hay	61.8	3%
Cultivated Crops	4.7	0%
Woody Wetlands	88.0	4%
Emergent Herbaceous Wetlands	12.9	1%
	2291	~100%

4314-01

At 68%, local basin 4314-01 is mostly comprised of deciduous forest. Woody wetlands follows at 9% while pasture and developed open space each claim 7% of the basin's land cover.

	Acres	Percent
Open Water	10.5	1%
Developed, Open Space	144.8	7%
Developed, Low Intensity	20.7	1%
Developed, Medium Intensity	1.6	0%
Barren Land	1.1	0%
Deciduous Forest	1345.3	68%
Evergreen Forest	34.1	2%
Mixed Forest	75.6	4%
Scrub/Shrub	25.9	1%
Pasture/Hay	128.3	7%
Woody Wetlands	182.2	9%
Emergent Herbaceous Wetlands	1.8	0%
	1972	~100%

Deciduous forest makes up the majority of local basin 4314-02. Ninety-six acres or 16% of the land cover is of woody wetlands while pasture comprises 8% of the basin. The remaining 5% takes form as open space or low intensity development as well as scrub-dominated territory.

	Acres	Percent
Developed, Open Space	23.2	4%
Developed, Low Intensity	3.1	1%
Deciduous Forest	437.8	71%
Scrub/Shrub	11.1	2%
Pasture/Hay	46.8	8%
Woody Wetlands	96.2	16%
	618	~100%

4314-03

Local basin 4314-03 is nearly completely vegetated. Deciduous, evergreen, and mixed forests collectively compose 92% of the basin while the remaining 8% appears as developed open space.

	Acres	Percent
Developed, Open Space	29.6	8%
Deciduous Forest	335.4	90%
Evergreen Forest	0.7	0%
Mixed Forest	7.4	2%
	373	~100%

4314-04

Local basin 4314-04 is very rural in character, with land cover comprised of 80% forest. Developed open space and low intensity development make up 7% and 5% of the basin, respectively, with trace amounts of pasture, woody wetlands, scrub, and medium intensity development.

	Acres	Percent
Developed, Open Space	71.4	7%
Developed, Low Intensity	49.0	5%
Developed, Medium Intensity	2.7	0%
Deciduous Forest	792.6	78%
Evergreen Forest	7.9	1%
Mixed Forest	14.6	1%
Scrub/Shrub	19.3	2%
Pasture/Hay	39.8	4%
Woody Wetlands	20.7	2%
	1018	~100%

Local basin 4314-05 is nearly entirely deciduous forest, making up 399 of the 423 total acres. Developed open space covers 3% of the basin while evergreen forest, scrub/shrub, and pasture compose the remaining 9 acres.

	Acres	Percent
Developed, Open Space	14.7	3%
Deciduous Forest	399.0	94%
Evergreen Forest	1.8	0%
Scrub/Shrub	1.3	0%
Pasture/Hay	5.8	1%
	423	~100%

4314-06

At 69%, local basin 4314-06 is predominantly deciduous forest. Developed land cover comprises 16% while pasture, woody ad emergent herbaceous wetlands, forest, and scrub make up the remainder of the basin.

	Acres	Percent
Developed, Open Space	163.0	8%
Developed, Low Intensity	134.3	7%
Developed, Medium Intensity	27.6	1%
Developed, High Intensity	2.9	0%
Deciduous Forest	1337.4	69%
Evergreen Forest	32.1	2%
Mixed Forest	12.5	1%
Scrub/Shrub	16.0	1%
Pasture/Hay	92.4	5%
Woody Wetlands	70.4	4%
Emergent Herbaceous Wetlands	42.5	2%
	1931	~100%

Relatively small local basin 4314-07 is also mostly composed of deciduous forest with 16% allotted to pasture and 11% to development. Scrub and cultivated crops make up the remaining 4%.

	Acres	Percent
Developed, Open Space	19.7	8%
Developed, Low Intensity	6.5	3%
Developed, Medium Intensity	0.9	0%
Deciduous Forest	165.1	69%
Evergreen Forest	1.1	0%
Scrub/Shrub	4.5	2%
Pasture/Hay	38.5	16%
Cultivated Crops	3.8	2%
	240	~100%

4314-08

At 57%, greater than half of the land cover of local basin 4314-08 is developed as low intensity, medium intensity, and developed open space areas. Deciduous forest comprises about a third of the basin.

	Acres	Percent
Developed, Open Space	314.4	20%
Developed, Low Intensity	484.3	30%
Developed, Medium Intensity	112.5	7%
Developed, High Intensity	0.4	0%
Barren Land	4.5	0%
Deciduous Forest	514.5	32%
Evergreen Forest	18.0	1%
Mixed Forest	2.5	0%
Scrub/Shrub	10.2	1%
Pasture/Hay	100.5	6%
Woody Wetlands	32.9	2%
	1595	~100%

Local basin 4314-09 is overwhelmingly developed, with only 7% of the basin taking form as forest, pasture, or woody wetlands. Low and medium intensity development compose 32% and 33% of the basin, respectively, with 22% existing as developed open space and 5% as high intensity development.

	Acres	Percent
Developed, Open Space	149.0	22%
Developed, Low Intensity	221.4	32%
Developed, Medium Intensity	228.5	33%
Developed, High Intensity	35.8	5%
Deciduous Forest	22.9	3%
Evergreen Forest	9.8	1%
Pasture/Hay	8.4	1%
Woody Wetlands	11.6	2%
	687	~100%

4314-10

Local basin 4314-10 is similar in character to 4314-09, with 79% development split mostly among low and medium intensities as well as open space. Deciduous forest comprises 19% in addition to 7 acres of pasture.

	Acres	Percent
Developed, Open Space	168.5	22%
Developed, Low Intensity	216.0	28%
Developed, Medium Intensity	193.4	25%
Developed, High Intensity	34.0	4%
Deciduous Forest	148.9	19%
Scrub/Shrub	0.9	0%
Pasture/Hay	7.1	1%
	769	~100%

Pequabuck River Subregional Basin

4315-00

The majority of the local basin 4315-00 consists of constructed materials and vegetation. Developed open space and areas of low, medium, and high intensity development- 18%, 21%, 17%, and 3% respectively-cover 59% of the subregional basin. Deciduous forest accounts for a quarter of the land cover while small amounts of pasture, woody wetlands, and other categories cover the rest.

	Acres	Percent
Open Water	44.1	1%
Developed, Open Space	1418.2	18%
Developed, Low Intensity	1715.6	21%
Developed, Medium Intensity	1351.2	17%
Developed, High Intensity	237.7	3%
Barren Land	34.5	0%
Deciduous Forest	2117.2	26%
Evergreen Forest	102.2	1%
Mixed Forest	32.1	0%
Scrub/Shrub	64.6	1%
Pasture/Hay	419.4	5%
Cultivated Crops	45.0	1%
Woody Wetlands	376.9	5%
Emergent Herbaceous Wetlands	66.8	1%
	8025	~100%

4315-01

The relatively small local basin 4315-01 is a mix of mostly low-intensity development, deciduous forest, and pasture. Predominantly residential areas account for 34% of the basin while 46% is forested and 20% is used as pasture or cropland.

	Acres	Percent
Developed, Open Space	28.4	8%
Developed, Low Intensity	86.9	25%
Developed, Medium Intensity	2.0	1%
Deciduous Forest	161.8	46%
Scrub/Shrub	1.8	1%
Pasture/Hay	65.0	19%
Cultivated Crops	2.3	1%
Woody Wetlands	0.9	0%
	349	~100%

Over 215 acres, or 52%, of the 411-acre local basin 4315-02 consists of developed areas in the form of residential or industrial zones. Deciduous and evergreen forests each contribute 17% land cover while smaller amounts of open water, mixed forest, scrub, pasture, and woody wetlands compose the remaining 13%.

	Acres	Percent
Open Water	31.8	8%
Developed, Open Space	101.8	25%
Developed, Low Intensity	70.6	17%
Developed, Medium Intensity	42.1	10%
Developed, High Intensity	1.3	0%
Deciduous Forest	70.6	17%
Evergreen Forest	69.7	17%
Mixed Forest	5.3	1%
Scrub/Shrub	5.1	1%
Pasture/Hay	0.9	0%
Woody Wetlands	12.0	3%
	411	~100%

4315-03

Local basin 4315-03 is a mix of residential and industrial areas, deciduous forest, and pasture. At 31%, deciduous forest composes the highest single category of land cover while pasture follows at 20% and low intensity development at 19%. Developed open space covers 12% of the basin while medium and high intensity areas cover 16% combined.

	Acres	Percent
Developed, Open Space	61.1	12%
Developed, Low Intensity	96.9	19%
Developed, Medium Intensity	57.3	11%
Developed, High Intensity	27.9	5%
Barren Land	10.9	2%
Deciduous Forest	160.0	31%
Mixed Forest	2.0	0%
Pasture/Hay	104.0	20%
	520	~100%

At 55%, the majority of local basin 4315-04 is developed, with low and medium intensity areas contributing most to the total development figure. The remaining acreage is mostly made up of deciduous forest (40%) with trace amounts of scrub and pasture contributing to land cover.

	Acres	Percent
Developed, Open Space	72.4	14%
Developed, Low Intensity	116.3	22%
Developed, Medium Intensity	94.6	18%
Developed, High Intensity	4.7	1%
Deciduous Forest	209.5	40%
Mixed Forest	1.6	0%
Scrub/Shrub	8.2	2%
Pasture/Hay	12.2	2%
	519	~100%

4315-05

Local basin 4315-05 has almost equal amounts of low and medium development as well as deciduous forest (26%, 20%, and 22% respectively). Developed open space accounts for 16% of the local basin's land cover while 9% functions as pasture.

	Acres	Percent
Open Water	5.6	0%
Developed, Open Space	251.9	16%
Developed, Low Intensity	419.4	26%
Developed, Medium Intensity	323.5	20%
Developed, High Intensity	88.5	5%
Barren Land	16.2	1%
Deciduous Forest	348.9	22%
Mixed Forest	3.6	0%
Scrub/Shrub	7.1	0%
Grassland/Herbaceous	2.7	0%
Pasture/Hay	145.6	9%
Emergent Herbaceous Wetlands	1.3	0%
	1614	~100%

Local basin 4315-06 is highly residential with 71% consisting of developed open space and low or medium intensity development. Deciduous forest and herbaceous areas contribute 17% land cover while pasture and cropland utilize 11% of the local basin.

	Acres	Percent
Developed, Open Space	162.5	30%
Developed, Low Intensity	160.7	30%
Developed, Medium Intensity	56.8	11%
Developed, High Intensity	6.2	1%
Barren Land	2.7	0%
Deciduous Forest	85.1	16%
Scrub/Shrub	0.7	0%
Grassland/Herbaceous	2.9	1%
Pasture/Hay	52.8	10%
Cultivated Crops	5.5	1%
	536	~100%

4315-07

Local basin 4315-07 is predominantly developed with 68% functioning as lawns, parks, housing, business areas, impervious surfaces, or other related structures. Low intensity and open space development each compose 27% of the basin's land use. About 45 (16%) of the basin's 286 acres are covered by deciduous forest, and about 36 (13%) are used for pasture.

	Acres	Percent
Developed, Open Space	77.1	27%
Developed, Low Intensity	76.8	27%
Developed, Medium Intensity	31.2	11%
Developed, High Intensity	9.1	3%
Barren Land	4.7	2%
Deciduous Forest	44.5	16%
Pasture/Hay	35.9	13%
Cultivated Crops	6.9	2%
	286	~100%

At 64%, local basin 4315-08 is about 2/3 developed with the remaining third covered by deciduous forest (36%). Low and medium intensity development comprise the majority of the developed areas, each at 22%. Trace amounts of mixed forest and open water are also present.

	Acres	Percent
Open Water	8.5	1%
Developed, Open Space	179.5	17%
Developed, Low Intensity	236.1	22%
Developed, Medium Intensity	238.6	22%
Developed, High Intensity	21.3	2%
Deciduous Forest	389.9	36%
Mixed Forest	6.0	1%
Scrub/Shrub	2.9	0%
Pasture/Hay	0.5	0%
Woody Wetlands	4.3	0%
	1087	~100%

4315-09

The vast majority of local basin 4315-09 is deciduous forest (82%). Open water and low intensity development each contribute 19 acres, or 6%, while developed open space, medium intensity development, evergreen forest, and woody wetlands round out the remaining areas.

	Acres	Percent
Open Water	19.0	6%
Developed, Open Space	9.2	3%
Developed, Low Intensity	19.0	6%
Developed, Medium Intensity	1.6	1%
Deciduous Forest	254.1	82%
Evergreen Forest	3.1	1%
Woody Wetlands	2.0	1%
	308	~100%

Local basin 4315-10 is predominantly developed, with 24%, 30%, and 4% composed of low, medium, and high intensity development, respectively. Developed open space accounts for 19% of the basin while deciduous and evergreen forests comprise a combined 17%. Open water, pasture, and woody wetlands comprise the remaining areas.

	Acres	Percent
Open Water	8.2	1%
Developed, Open Space	138.4	19%
Developed, Low Intensity	169.1	24%
Developed, Medium Intensity	214.8	30%
Developed, High Intensity	30.5	4%
Deciduous Forest	80.6	11%
Evergreen Forest	44.5	6%
Pasture/Hay	7.6	1%
Woody Wetlands	17.6	2%
	711	~100%

4315-11

Local basin 4315-11 consists of 66% developed areas and 20% forest (deciduous and evergreen). Pasture and woody wetlands each contribute 5% and 6%, respectively, while barren land, scrub, open water, and cultivated crops cover a combined 3% of the watershed.

	Acres	Percent
Open Water	1.6	0%
Developed, Open Space	139.6	21%
Developed, Low Intensity	202.7	31%
Developed, Medium Intensity	91.3	14%
Barren Land	10.7	2%
Deciduous Forest	123.6	19%
Evergreen Forest	7.3	1%
Scrub/Shrub	6.2	1%
Pasture/Hay	35.6	5%
Cultivated Crops	2.9	0%
Woody Wetlands	38.7	6%
	660	~100%

Local basin 4315-12 possesses 60% developed areas, mostly of low (20%) and medium (19%) intensity. Woody and emergent herbaceous wetlands cover a quarter of the basin (15% and 10%, respectively), while deciduous, evergreen, and mixed forest provides 14% of the land cover.

	Acres	Percent
Developed, Open Space	43.1	15%
Developed, Low Intensity	57.8	20%
Developed, Medium Intensity	54.3	19%
Developed, High Intensity	17.1	6%
Barren Land	3.1	1%
Deciduous Forest	31.4	11%
Evergreen Forest	6.2	2%
Mixed Forest	2.2	1%
Woody Wetlands	42.5	15%
Emergent Herbaceous Wetlands	27.4	10%
	285	~100%

4315-13

Just over half, or 57%, of local basin 4315-13 is developed, with about equal parts low intensity and open space development (22% and 20%, respectively) and 13% medium intensity. Forest, mostly deciduous, covers about a third of the basin while woody wetlands and pasture compose most of the remaining land.

	Acres	Percent
Open Water	12.3	1%
Developed, Open Space	398.7	20%
Developed, Low Intensity	452.1	22%
Developed, Medium Intensity	254.6	13%
Developed, High Intensity	38.3	2%
Barren Land	5.6	0%
Deciduous Forest	590.2	29%
Evergreen Forest	20.7	1%
Mixed Forest	17.8	1%
Scrub/Shrub	23.6	1%
Pasture/Hay	86.2	4%
Woody Wetlands	125.4	6%
Emergent Herbaceous Wetlands	3.6	0%
	2029	~100%

Local basin 4315-14 is predominantly forested, with 57% land cover composed of deciduous and evergreen forests combined. Low intensity development comprises 15% while remaining developed areas total to 9% or 69.9 acres. Woody wetlands and pasture each cover 7% and 6% of the basin, respectively, with trace amounts of crops, scrub, and open water present as well.

	Acres	Percent
Open Water	1.6	0%
Developed, Open Space	43.4	6%
Developed, Low Intensity	112.2	15%
Developed, Medium Intensity	18.4	2%
Developed, High Intensity	8.1	1%
Deciduous Forest	411.1	55%
Evergreen Forest	16.6	2%
Mixed Forest	2.9	0%
Scrub/Shrub	27.0	4%
Pasture/Hay	43.2	6%
Cultivated Crops	4.3	1%
Woody Wetlands	52.4	7%
	741	~100%

4315-15

Local basin 4315-15 possesses several categories of land cover in moderate amounts. Deciduous and evergreen forest cover a combined 44% of the local basin while developed areas account for 39%. Mixed forest, scrub, pasture, woody wetlands, and open water each contribute 3-4% to total land use.

	Acres	Percent
Open Water	15.7	3%
Developed, Open Space	102.9	21%
Developed, Low Intensity	73.6	15%
Developed, Medium Intensity	11.6	2%
Developed, High Intensity	3.4	1%
Deciduous Forest	169.4	34%
Evergreen Forest	48.3	10%
Mixed Forest	21.7	4%
Scrub/Shrub	19.2	4%
Pasture/Hay	13.2	3%
Woody Wetlands	13.9	3%
	493	~100%