



LOWHILL TOWNSHIP



PADEP - ANNUAL REPORT OF ACTIVITIES JANUARY 1, 2018 TO DECEMBER 31, 2018

Western Lehigh Sewerage Partnership

March 2019

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A Grandfathered Connections

ACRONYMS AND ABBREVIATIONS

I/I	Inflow/Infiltration
KISS	Kline's Island Sewer System
KIWWTP	Kline's Island Wastewater Treatment Plant
LCA	Lehigh County Authority
LF	Linear Feet
LMT	Lower Macungie Township
PADEP	Pennsylvania Department of Environmental Protection
SCARP	Sewer Capacity Assurance & Rehabilitation Program
SIO	SCARP Implementation Outline
SSES	Sanitary Sewer Evaluation Study
UMT	Upper Macungie Township
USEPA	United States Environmental Protection Agency
WLI	Western Lehigh Interceptor
WLSP	Western Lehigh Sewerage Partnership

1 INTRODUCTION

Peak flow issues in the Lehigh County Authority (LCA) sewer conveyance systems and in the collection systems connected to it (namely Upper Milford Township, Weisenberg Township, Lower Macungie Township (LMT), Upper Macungie Township (UMT), Lowhill Township, Alburtis, and Macungie) have caused the Pennsylvania Department of Environmental Protection (PADEP) to begin reviewing sewer system extensions in each of these communities. Pursuant to communications with PADEP and in accordance with Chapter 94 requirements, LCA and the above municipalities have elected to prepare and implement a corrective action plan to collectively address the problems within each of these sanitary sewer systems. LCA and the above named LCA signatory parties have formed the Western Lehigh Sewerage Partnership (WLSP) to jointly investigate and develop an appropriate corrective action plan. Since initial formation of the WLSP, the United States Environmental Protection Agency (USEPA) issued an Administrative Order to all municipal dischargers to Allentown's Kline's Island wastewater treatment plant (KIWWTP), including the WLSP, City of Allentown, South Whitehall Township, Coplay-Whitehall Sewer Authority, Hanover Township, Salisbury Township and Emmaus Borough. The WLSP created the Sewer Capacity Assurance and Rehabilitation Program (SCARP) to address both the PADEP concerns and the USEPA Administrative Order, along with other related long-term wastewater needs for the Partners. WLSP's efforts do not address downstream hydraulic restrictions in the Kline's Island Sewer System (KISS), the KIWWTP, or any I/I or capacity concerns of the other named municipalities in the EPA Administrative Order. A regional flow management strategy for all signatories has been prepared, which includes specific inflow and infiltration (I/I) source reduction capital improvement plans and O&M plans for each individual signatory. On March 11, 2019, EPA sent a letter to LCA indicating that it found the regional flow management strategy acceptable, the requirements of the Administrative Order have been met, and relegating compliance oversight responsibilities to PADEP.

In August 2018, the WLSP prepared a SCARP Implementation Outline to address PADEP 2009 Chapter 94 concerns, USEPA Administrative Order concerns, and other related long-term wastewater needs for the Partners. It satisfies the requirements for the Capital Improvements Plan, Long-term Asset Management Plan, and Program Management Plan aspects of the original October 2009 SCARP Program Approach Outline. The WLSP expects the existing Connection Management Plan to remain in place while this plan is being implemented, subject to additional discussion with PADEP. However, these plans, programs and connection management approach do not address downstream hydraulic restrictions in the KISS, the KIWWTP, or other capacity or I/I concerns for other non-WLSP municipalities in the KISS. Further discussion is required to determine how the WLSP's upstream efforts work within the full regional context of the KISS.

Removal of I/I sources in the leakiest portions of the WLSP collection systems is ongoing and will continue until 2025. A recalibration of the WLSP hydraulic model will be conducted prior to 2025 to inform the partners of progress made and help shape the remaining source reduction rehabilitation work.

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This Report summarizes work done pursuant to the SCARP program by the WLSP from January 1, 2018 to December 31, 2018.

2 FLOW CHARACTERIZATION

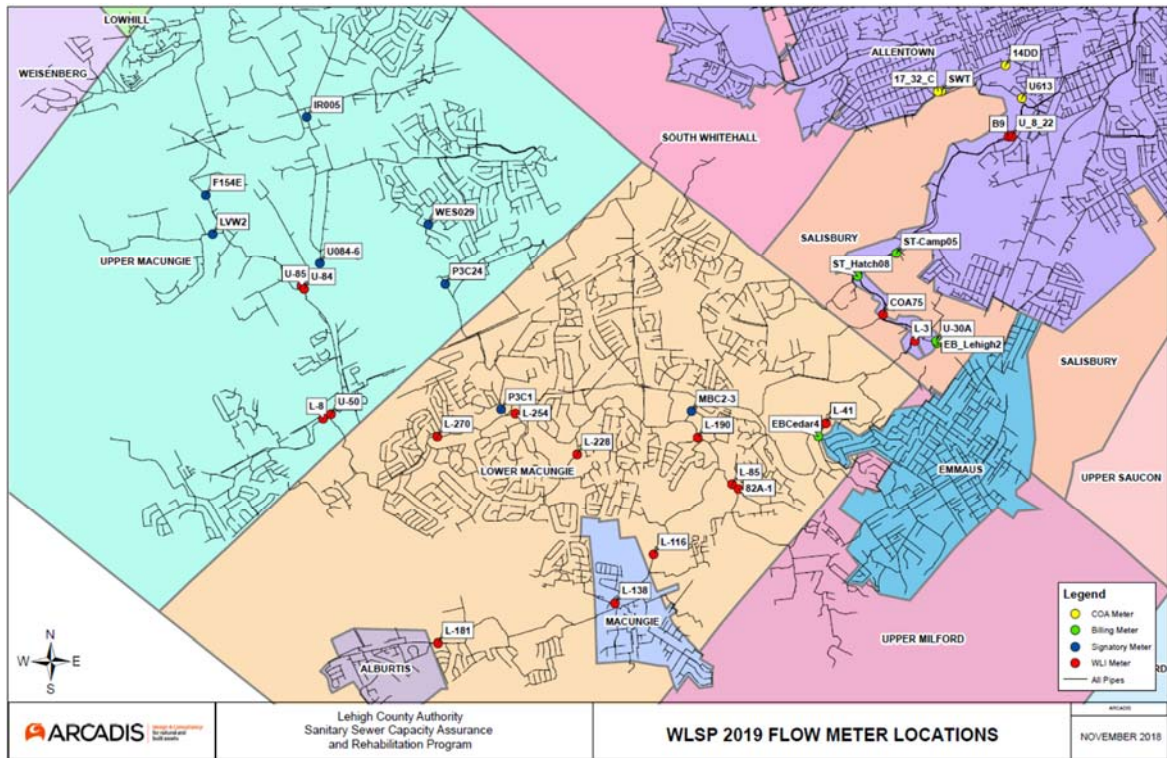
Additional development flows have been added to the Western Lehigh Interceptor since the last system flow characterization in 2009. Additionally, source reduction and capacity improvements that improve levels of protection and reduce the frequency of SSOs have also been undertaken. An updated WLSP flow characterization of the primary conveyance components is necessary to understand the current average dry day and peak wet weather flow demands on the sewer system and to size needed capacity improvements.

This flow characterization work will:

- Quantify the dry and wet day impacts of new development flows added since 2009
- Quantify the dry and wet day effectiveness of the I/I reduction work conducted since 2009
- Quantify the dry and wet day effectiveness of capacity improvements made since 2009

This work should be done simultaneously with a broader recalibration of the rest of the Kline's Island Sewer System (KISS) for identical reasons. However, the full KISS model recalibration is not scheduled to begin until 2021. To address the WLSP's planning needs, a program of flow monitoring, rainfall monitoring, future flow projections, and dynamic hydraulic modeling will be conducted in 2019. In 2018, LCA hired TFE to install 35 flow meters throughout the WLSP to capture the flows entering the Western Lehigh Interceptor from WLSP municipalities. The flow meter data will be used to support flow characterization work in the Western Lehigh Interceptor to be completed in late 2019 or 2020. Flow meter locations are shown in Figure 1. No rehabilitation effectiveness evaluations were performed in 2018.

Figure 1. 2019 Flow Meter Locations



3 SOURCE REDUCTION PROGRAMS

The WLSP members are implementing Source Reduction Programs that will continue through the end of 2025, when the pipes, laterals, and manholes within the prioritized (i.e. leaking) catchments are either rehabilitated or proven not to have excessive I/I.

Additionally, LCA has committed to evaluating and rehabilitating as necessary their entire 25 miles of trunk lines and interceptors. All of the trunk lines of the LCA conveyance system (Breinigsville Trunkline, Albutis-Macungie Trunkline, Upper Iron Run Trunkline, and Upper Milford Trunkline) were rehabilitated in 2017. The LCA interceptor systems (Western Lehigh Interceptor and Little Lehigh Relief Interceptor) will be rehabilitated or shown not to have excessive I/I in 2018 and 2019.

At the completion of these efforts, 100% of the LCA interceptors and trunk lines will have been rehabilitated or shown not to have excessive I/I, and all of the leakiest collection sewers (i.e., those found to be contributing significant amounts of inflow and infiltration during the 2009-2012 hydraulic condition assessment work) will have been rehabilitated.

Several of the Partners are aggressively extending their rehabilitation efforts outside the priority catchments to include all clay pipe and/or any other pipe found via routine CCTV inspections to have significant defects, as well as many of the manholes to be structurally compromised.

Additionally, each of the Partners initiated comprehensive investigations of clearwater connections to their sanitary sewers. Many of these connections have already been removed from the sanitary system, and the Partners intend to continue this work through 2025 to eliminate located clearwater connections to the extent practical.

3.1 Lehigh County Authority

In late 2018 LCA conducted investigations of the Iron Run Trunk Line and the upper portion of the Western Lehigh Interceptor (WLI) to determine if high groundwater conditions have contributed leakage into the interceptor. A total of 7,115 LF were inspected between LCA's wastewater pretreatment plant and the Spring Creek Pump Station. Within this run of pipe fewer than 10 leaks were identified despite the unusually high groundwater conditions. The identified leaks will be addressed in an expedited manner in the first half of 2019, and the remainder of the WLI will also be inspected in 2019 with any identified leaks repaired within the calendar year.

3.2 Upper Milford Township

No source removal work was completed in 2018.

3.3 Weisenberg Township

No source removal work was completed in 2018.

3.4 Upper Macungie Township

The following source removal work was completed in 2018:

- Cured-in-place pipe lining of 4,200 LF of VCP sewers at a cost of \$362,477
- Repair of 244 manholes at a cost of \$178,338.48. Repair methods included epoxy lining, chimney sealing, inflow dish replacement, grouting, and resetting frames.

In addition, Upper Macungie inspected 647 manholes and 30,578 LF of sewers in 2018.

In 2019, Upper Macungie plans to replace 62 laterals between the main line sewer and right-of-way. Lateral lining is anticipated to commence in late 2019.

Upper Macungie plans to inspect approximately 600 manholes and 450 laterals in 2019.

3.5 Lower Macungie Township

The following source removal work was completed in 2018:

- Cured-in-place pipe lining of 11,570 LF of VCP sewers
- Repair of 52 manholes
- Replacement of 36 lateral cleanout caps.
- Cured-in-place lining of 1 lateral between the main and right-of-way.
- Replacement of 2 laterals between main and right-of-way

In addition, in 2018 Lower Macungie inspected 49,720 LF of sewers and performed 13,700 LF of chemical root treatment in preparation for future pipe lining.

In 2019 Lower Macungie plans to line approximately 9,000 LF of pipe and inspect 250 manholes. Lower Macungie plans to investigate and rehabilitate 1,200 laterals within priority I/I areas.

3.6 Borough of Alburtis

The following source removal work was completed in 2018:

- Grouting of 10 service lateral connections
- Installation of 7 manhole dishes to reduce inflow (all manholes in Alburtis now have dishes)

In addition, nearly the entire sanitary sewer system was inspected via CCTV in 2018. The construction cost of the CCTV inspections and the sewer rehabilitation work performed in 2018 was approximately \$86,257.50.

Eight remaining sewer segments will be televised in 2019. Sewer and manhole rehabilitation work will continue in 2019. The Borough is also currently planning a smoke testing program for 2019 which has been utilized in the past as a method to detect sources of inflow. The construction cost for the work scheduled to be performed in 2019 is approximately \$316,240 (including the Borough match as required by a grant.)

3.7 Borough of Macungie

The following source removal work was completed in 2018:

- Contracted with Insituform Technologies, Inc. to clean, perform closed circuit television inspection, install cured in place pipe (CIPP) liner and perform lateral reinstatements. In total 12,524 feet of 8" VCP sewer and 466 feet of 10" VCP sewer were lined at a total project cost of \$484,834.53 including construction, engineering and inspection.
- Contracted with National Water Main Cleaning Co. to clean, perform closed circuit television inspection, install CIPP liner and perform lateral reinstatements. In total 9,414 feet of 8" VCP sewer were lined at a total project cost of \$446,935.00 including construction, engineering and inspection.

In addition, the Borough Engineer along with the Borough's Public Works Department began the process of inspecting approximately 200 sanitary sewer manholes in order to identify those manholes needing rehabilitation. Approximately 60 manholes were inspected in 2018 and the remainder will be inspected in 2019. Upon completion of the inspections, bidding documents will be prepared for a manhole rehabilitation project. Manhole inspection costs: \$8,474.00.

In 2018, the Borough also adopted an ordinance requiring sanitary sewer laterals video inspections upon the sale of any improved property in the Borough. The ordinance also requires repair of defects or infiltration observed on the inspection.

In 2019 the Borough plans to bid manhole rehabilitation work and lateral installations.

3.8 Lowhill Township

No source removal work was completed in 2018.

4 CAPACITY IMPROVEMENTS

There are several projects that will need to be conducted contemporaneously with the WLSP Source Reduction Programs and completed before the planned 2025 KISS model update. The Park Pump Station Refurbishment will extend the life of the pump station and allow it to more reliably pump its full design capacity. The Spring Creek Pump Station Force Main and ARV Rehabilitation project is intended to extend the life of the force main but does not include an expansion of capacity. The Trexlertown Interceptor project consists of the construction of a new in-line storage pipeline approximately one mile in length and 48" to 78" in diameter. This new pipe will parallel the existing 24" interceptor and connect to the 27" WLI at the downstream terminus and provide peak wet weather storage in the upper section of the WLI. The status of each of the planned capacity improvement projects is provided below.

4.1 Park Pump Station Refurbishment

This project will improve the reliability of and extend the life of the pump station. In 2018 the stone access road was constructed and wet taps to the force main were made for the bypass pumping system connection. The majority of construction will occur in late 2019 due to lead times on equipment. LCA expect substantial completion by the end of 2019, with some minor work carrying over into 2020.

4.2 Park Force Main and ARV Rehabilitation

Inspection of the existing force main and ARVs is anticipated to occur in 2019 which will then inform the scope and schedule for completion of repairs.

4.3 Spring Creek Pump Station Force Main and ARV Rehabilitation

Inspections and testing are scheduled for 2020 which will inform rehabilitation scope and schedule.

4.4 Trexlertown Interceptor Parallel In-line Storage Pipe

Alignment evaluation and easement acquisition for a 1-mile parallel storage pipeline are anticipated to start in 2019.

5 CONNECTION MANAGEMENT PLAN

5.1 Development Credits

Redevelopment flow credits earned and flow allocations issued will be tracked and reported for the reporting period in accordance with SCARP Program Approach Outline Section 4. During this reporting period no flow development credits are reported. Tables 5-1, 5-2, and 5-3 show the remaining flow credits, the issued flow allocations (non-grandfathered), and the approved development applications. Appendix A shows the grandfathered connections made to the system in the current reporting period.

Table 5-1. Remaining Flow Credits

Flow Credits	GPD
Remaining Flow Credits in Prior Report	709,024
+ Current Period Development Credits Earned	+0
- Current Period Allocations Issued	-55,765
Remaining Flow Credits	653,259

Table 5-2. Allocations Issued (Non-Grandfathered)

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
ALBURTIS	18069	1-May-18	314 W FRONT ST	N/A	1	223	RESIDENTIAL
LOWER MACUNGIE	18046	15-Mar-18	3645 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18052	2-Apr-18	3295 PA ROUTE 100	N/A	0.81	180	COMMERCIAL
LOWER MACUNGIE	18053	2-Apr-18	3261 PA ROUTE 100	N/A	2.11	470	COMMERCIAL
LOWER MACUNGIE	18051	2-Apr-18	3525 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18065	1-May-18	6992 SUNFLOWER LN	N/A	1	223	RESIDENTIAL
LOWER MACUNGIE	18075	15-May-18	3505 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18076	15-May-18	3640 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18079	1-Jun-18	2550 ROUTE 100	SCPSS SUBDIVISION	48.43	10,800	COMMERCIAL
LOWER MACUNGIE	18080	1-Jun-18	3565 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18081	1-Jun-18	3700 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18105	1-Jul-18	3545 SWABIA CT	STONEHILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18109	15-Jul-18	3665 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL

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Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
LOWER MACUNGIE	18110	15-Jul-18	3685 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE	18142	4-Sep-18	5105 EAST TEXAS ROAD	YEN SUBDIVISION	1	223	RESIDENTIAL
LOWER MACUNGIE	18189	18-Oct-18	4913 LOWER MACUNGIE ROAD	N/A	1	223	RESIDENTIAL
LOWER MACUNGIE	18204	17-Dec-18	3605 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE	18011	2-Jan-18	5511 AUTUMN LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18013	15-Jan-18	240 BLUEGRASS CT	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18030	15-Feb-18	9620 HAMILTON BLVD	N/A	1	223	COMMERCIAL
UPPER MACUNGIE	18031	15-Feb-18	9614 HAMILTON BLVD	N/A	1	223	RESIDENTIAL
UPPER MACUNGIE	18033	1-Mar-18	5900 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18034	1-Mar-18	5898 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18043	15-Mar-18	5462 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18044	15-Mar-18	236 BLUEGRASS CT	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18045	15-Mar-18	5907 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18048	2-Apr-18	5916 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18062	15-Apr-18	5904 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18063	15-Apr-18	5358 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18064	15-Apr-18	5402 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18071	1-May-18	7350 INDUSTRIAL BLVD	N/A	25.56	5,700	COMMERCIAL
UPPER MACUNGIE	18072	1-May-18	5380 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18073	1-May-18	5336 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18085	1-Jun-18	5401 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18086	1-Jun-18	5478 AUTUMN LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18093	15-Jun-18	5522 AUTUMN LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18094	15-Jun-18	5313 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18095	15-Jun-18	5902 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18102	1-Jul-18	5912 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18103	1-Jul-18	5456 AUTUMN LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18106	15-Jul-18	5906 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18107	15-Jul-18	5335 BUTTERFLY LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18108	15-Jul-18	5467 AUTUMN LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18117	1-Aug-18	5926 WINTERBERRY PLACE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18118	1-Aug-18	5899 WINTERBERRY PLACE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18134	15-Aug-18	7512 TREXLER CIR	TREXLER TOWN GARDENS	1	223	RESIDENTIAL
UPPER MACUNGIE	18160	4-Sep-18	7189 AMBASSADOR DR - BUILDING 2	DCT INDUSTRIAL	10.09	2,250	COMMERCIAL
UPPER MACUNGIE	18161	4-Sep-18	7185 AMBASSADOR DR - BUILDING 1	DCT INDUSTRIAL	3.36	750	COMMERCIAL

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Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
UPPER MACUNGIE	18153	4-Sep-18	67 WERLEY ROAD - BUILDING 100	RESERVE @ PARKLAND	9.33	2,080	COMMERCIAL
UPPER MACUNGIE	18154	4-Sep-18	67 WERLEY ROAD - BUILDING 200	RESERVE @ PARKLAND	9.33	2,080	COMMERCIAL
UPPER MACUNGIE	18155	4-Sep-18	67 WERLEY ROAD - BUILDING 300	RESERVE @ PARKLAND	9.33	2,080	COMMERCIAL
UPPER MACUNGIE	18156	4-Sep-18	67 WERLEY ROAD - BUILDING 400	RESERVE @ PARKLAND	9.33	2,080	COMMERCIAL
UPPER MACUNGIE	18157	4-Sep-18	67 WERLEY ROAD - BUILDING 500	RESERVE @ PARKLAND	8.74	1,950	COMMERCIAL
UPPER MACUNGIE	18158	4-Sep-18	67 WERLEY ROAD - BUILDING 600	RESERVE @ PARKLAND	9.33	2,080	COMMERCIAL
UPPER MACUNGIE	18159	4-Sep-18	67 WERLEY ROAD - BUILDING 700	RESERVE @ PARKLAND	9.33	2,080	COMMERCIAL
UPPER MACUNGIE	18163	15-Sep-18	5908 WINTERBERRY DRIVE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18168	15-Oct-18	5910 WINTERBERRY PLACE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18196	15-Nov-18	5292 BUTTERFLY LANE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18205	17-Dec-18	5901 WINTERBERRY PLACE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18206	17-Dec-18	5924 WINTERBERRY PLACE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE	18207	17-Dec-18	5314 BUTTERFLY LANE	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MILFORD	18002	2-Jan-18	4143 CLEARBROOK DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18003	2-Jan-18	4135 CLEARBROOK DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18004	2-Jan-18	3477 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18012	15-Jan-18	3498 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18020	1-Feb-18	3501 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18054	2-Apr-18	3458 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18055	2-Apr-18	3489 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18067	1-May-18	3474 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18068	1-May-18	3439 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18077	15-May-18	3506 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18078	15-May-18	3522 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18082	1-Jun-18	3463 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18083	1-Jun-18	3530 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18084	1-Jun-18	3514 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18130	1-Aug-18	4132 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL

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UPPER MILFORD	18131	1-Aug-18	4128 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18132	1-Aug-18	3538 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18133	1-Aug-18	3561 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18141	4-Sep-18	3549 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18164	15-Sep-18	4136 CLEARBROOK ROAD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18165	15-Sep-18	4144 CLEARBROOK ROAD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18171	15-Oct-18	3511 DAYLILY DRIVE	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18170	15-Oct-18	3487 DAYLILY DRIVE	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18172	15-Oct-18	3537 TREEVIEW DRIVE	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18169	15-Oct-18	4150 MARION PALCE	PINE GROVE MANOR	1	223	RESIDENTIAL
UPPER MILFORD	18173	18-Oct-18	3888 MINK ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18174	18-Oct-18	3884 MINK ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18175	18-Oct-18	4399 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18176	18-Oct-18	4393 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18177	18-Oct-18	4387 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18178	18-Oct-18	4381 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18179	18-Oct-18	4410 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18180	18-Oct-18	4416 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18181	18-Oct-18	4422 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18182	18-Oct-18	4428 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18183	18-Oct-18	4434 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18184	18-Oct-18	4440 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18185	18-Oct-18	4446 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18186	18-Oct-18	4454 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18187	18-Oct-18	4460 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18188	18-Oct-18	4466 STOLE ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18190	1-Nov-18	3876 MINK ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18191	1-Nov-18	3880 MINK ROAD	JASPER RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18192	1-Nov-18	3955 WEST MINOR STREET	SALEM RIDGE	1	223	RESIDENTIAL
UPPER MILFORD	18193	15-Nov-18	3495 DAYLILY DRIVE	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18194	15-Nov-18	4200 EVENINGSTAR ROAD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD	18203	3-Dec-18	4143 STREAMSIDE ROAD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
Totals					250.08	55,765	

Table 5-3. Approved Development Applications (Planning Modules)

Property Name	Street Address	Municipality	EDUs	Requested Base Capacity (gpd)	DEP Approval Date	Development Type
315 E Stone Alley	315 E Stone Alley	Alburtis	8	1,784	5/31/18	Residential
LMT Community Center Expansion	3400 Brookside Road	Lower Macungie	2.24	500	3/14/2018	Institutional
Spring Creek Prop Settlmt Subd, Rev Subd 2	Rt 100 between Quarry Road & Schoeneck Road	Lower Macungie	208.52	46,500	3/16/2018	Commercial
Stone Hill Meadows, Phase 2	Gehman Road & Scenic View Drive	Lower Macungie	85	18,955	4/20/18	Residential
Schoeneck Road, Lot 1 (3262)	3262 Schoeneck Road	Lower Macungie	15.70	3,500	6/15/18	Commercial
3612 Orchid Place	3612 Orchid Place	Lower Macungie	2	446	7/16/2018	Residential
3865 Fish Hatchery Rd	3865 Fish Hatchery Rd	Lower Macungie	1	223	7/16/2018	Residential
Schmidt, 4817 Lower Macungie Road	4817 Lower Macungie Road	Lower Macungie	1	223	7/25/2018	Residential
Suburban Self Serve Carwash	6452 Hamilton Blvd	Lower Macungie	4.95	1,104	9/11/2018	Commercial
2708 Mill Creek Road	2708 Mill Creek Rd	Lower Macungie	1	223	9/24/2018	Residential
2996 Macungie Road	2996 Macungie Rd	Lower Macungie	1	223	10/3/2018	Residential
6992 Sunflower Lane	6992 Sunflower Ln	Lower Macungie	1	223	11/30/2018	Residential
Stone Hill Meadows, Phase 3	150 Spring Street	Macungie	31	6,913	6/20/18	Residential
Park 100 Logistics Center	7352 Industrial Blvd	Upper Macungie	51.12	11,400	2/21/2018	Industrial
Parkland Elementary School	410 Twin Ponds Road	Upper Macungie	8.41	1,875	4/12/2018	Institutional
Towneplace Suites by Marriott	5828 Memorial Road	Upper Macungie	20.58	4,590	10/31/2018	Commercial
Totals			422.52	98,682		

APPENDIX A

Grandfathered Connections



APPENDIX A

SCARP REPORT			
2018 Grandfathered Connections			
MUNICIPALITY	EDUs	GALLONS PURCHASED	PROPERTY TYPE
Alburtis Borough	-	-	Residential
Macungie Borough	3	669	Residential
Lower Macungie Township	5	1,115	Residential
Lower Macungie Township	-	-	Industrial
Lower Macungie Township	-	-	Commercial
Upper Macungie Township	94	20,962	Residential
Upper Macungie Township	-	-	Industrial
Upper Macungie Township	-	-	Commercial
Upper Milford Township	-	-	Residential
TOTALS	102.00	22,746	

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Purchased	Property Type
BORO OF MACUNGIE	18162	11-Sep-18	141 SONOMA WAY	ESTATES AT BROOKSIDE	1	223	RESIDENTIAL
BORO OF MACUNGIE	18166	4-Oct-18	133 SONOMA WAY	ESTATES AT BROOKSIDE	1	223	RESIDENTIAL
BORO OF MACUNGIE	18167	4-Oct-18	137 SONOMA WAY	ESTATES AT BROOKSIDE	1	223	RESIDENTIAL
					3	669	
LOWER MACUNGIE TWP	18001	2-Jan-18	3163 SHEFFIELD DR	MILLBROOK FARMS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	18032	1-Mar-18	4460 CANTERBURY DR	MILLBROOK FARMS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	18066	1-May-18	5594 COVENANT CT	HARVEST FIELDS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	18074	15-May-18	1525 HARDNER DR	HARDNER GROVE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	18104	1-Jul-18	2560 GRACIE LONE	HARRIS-YORK	1	223	RESIDENTIAL
TOTALS					5	1115	
UPPER MACUNGIE TWP	18010	2-Jan-18	4619 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18009	2-Jan-18	4617 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18008	2-Jan-18	4615 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18007	2-Jan-18	4613 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18006	2-Jan-18	4611 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18005	2-Jan-18	4609 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18014	1-Feb-18	989 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18015	1-Feb-18	995 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18016	1-Feb-18	1043 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18017	1-Feb-18	1051 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18018	1-Feb-18	944 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18019	1-Feb-18	948 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18021	15-Feb-18	1075 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18022	15-Feb-18	1083 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18023	15-Feb-18	1106 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18024	15-Feb-18	1092 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18025	15-Feb-18	1084 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18026	15-Feb-18	1058 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18027	15-Feb-18	1050 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18028	15-Feb-18	1032 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18029	15-Feb-18	8523 VALLEY WEST DR	VALLEY WEST ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18038	15-Mar-18	4604 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18039	15-Mar-18	4602 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18040	15-Mar-18	4600 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18041	15-Mar-18	4598 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18042	15-Mar-18	4596 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18037	15-Mar-18	4606 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18035	15-Mar-18	1001 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18036	15-Mar-18	1007 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18049	2-Apr-18	1011 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18050	2-Apr-18	1019 SWALLOW TAIL LN	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18056	15-Apr-18	4623 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18057	15-Apr-18	4625 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18058	15-Apr-18	4627 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18059	15-Apr-18	4629 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18060	15-Apr-18	1134 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18061	15-Apr-18	1120 SPRING WHITE DR	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18070	1-May-18	1223 BRANDT DR	COUNTRY ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18087	15-Jun-18	4628 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18088	15-Jun-18	4626 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL

UPPER MACUNGIE TWP	18089	15-Jun-18	4624 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18090	15-Jun-18	4622 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18091	15-Jun-18	4620 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18092	15-Jun-18	4618 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18096	1-Jul-18	4633 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18097	1-Jul-18	4635 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18098	1-Jul-18	4637 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18099	1-Jul-18	4639 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18100	1-Jul-18	4641 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18101	1-Jul-18	4643 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18111	1-Aug-18	4642 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18112	1-Aug-18	4640 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18113	1-Aug-18	4638 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18114	1-Aug-18	4636 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18115	1-Aug-18	4634 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18116	1-Aug-18	4632 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18129	1-Aug-18	6066 POLOMINO DRIVE	HOPEWELL FARMS SOUTH	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18119	1-Aug-18	1059 SWALLOW TAIL LANE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18120	1-Aug-18	1067 SWALLOW TAIL LANE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18121	1-Aug-18	1123 SWALLOW TAIL LANE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18122	1-Aug-18	1129 SWALLOW TAIL LANE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18123	1-Aug-18	1130 SWALLOW TAIL LANE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18124	1-Aug-18	1116 SWALLOW TAIL LANE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18125	1-Aug-18	1028 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18126	1-Aug-18	1012 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18127	1-Aug-18	1053 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18128	1-Aug-18	1063 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18135	15-Aug-18	4647 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18136	15-Aug-18	4649 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18137	15-Aug-18	4651 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18138	15-Aug-18	4653 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18139	15-Aug-18	4655 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18140	15-Aug-18	4657 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18143	4-Sep-18	4656 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18144	4-Sep-18	4654 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18145	4-Sep-18	4652 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18146	4-Sep-18	4650 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18147	4-Sep-18	4648 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18148	4-Sep-18	4646 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18150	4-Sep-18	1156 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18151	4-Sep-18	969 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18152	4-Sep-18	967 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18149	4-Sep-18	1148 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18197	15-Nov-18	4659 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18198	15-Nov-18	4661 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18199	15-Nov-18	4663 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18200	15-Nov-18	4665 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18201	15-Nov-18	4667 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18202	15-Nov-18	4669 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18195	15-Nov-18	8643 VALLEY WEST DRIVE	VALLEY WEST ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18208	17-Dec-18	1078 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18209	17-Dec-18	1064 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18210	17-Dec-18	1077 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	18211	17-Dec-18	1121 SPRING WHITE DRIVE	TREXLER FIELD	1	223	RESIDENTIAL
TOTALS					94	20,962	

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