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Watershed Inventory Report

Phase 1 of the Watershed Improvement Plan-
INITIAL DRAFT = Pre January 1 2026 filing deadline

Township of Cinnaminson

Burlington County

Permit Number: NJG0154407

Stormwater Program Coordinator: Richard Brevogel, RVE

Approved: Pending

RVE Project No. Job #0308T407

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Acknowledgements

The Township of Cinnaminson (Burlington County) Watershed Inventory Report has been prepared by Remington & Vernick Engineers.

Funding for this project was provided by the Township of Cinnaminson.

Introduction

The Township of Cinnaminson (also referred to in this report as "The Township") is located in Burlington County New Jersey. The township falls within the Philadelphia-Reading-Camden combined statistical area. The Township is bordered by the municipalities of Delran, Maple Shade, Moorestown, Palmyra and Riverton. Cinnaminson Township covers approximately 7.95 square miles. Its population according to the 2020 US Census is 17064 people. The land use types are outlined in Table 1.

Figure 1: Land Use Types within the Township of Cinnaminson

Land Use Type	Acres	Percentage
AGRICULTURE	111.105716	2.18%
BARREN LAND	153.695342	3.02%
FOREST	314.970826	6.19%
URBAN	3806.365324	74.78%
WATER	365.52407	7.18%
WETLANDS	338.521228	6.65%

The majority of the land mass in Cinnaminson drains ultimately to the Delaware River via the Rancocas Creek which borders the southwestern portion of the township. The stormwater and runoff flow to one main stream and river system;

- Pompeston Creek
- Delaware River
- Several tributaries.

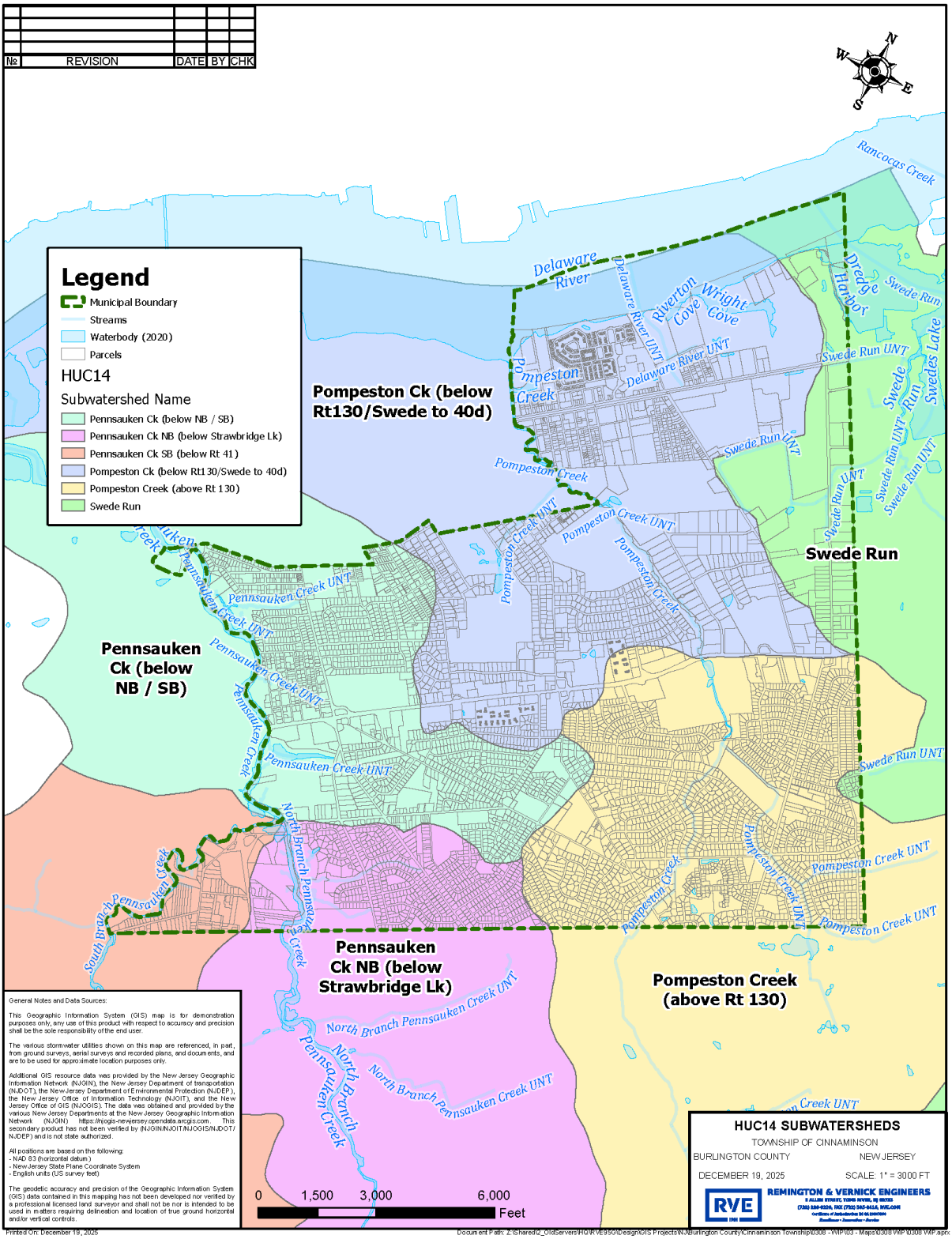
There are 6 HUC14 Watersheds in Cinnaminson.

There are areas within the township that may be prone to flooding. The FEMA National Flood Layer Viewer was used to identify roads that fall in the 500 and 100 year floodplains. Those roads are in Appendix A.

The Goal of the Watershed Improvement Plan (WIP) is to provide a comprehensive procedure for how the Township of Cinnaminson will comply with the new MS4 regulations put in place by the NJDEP. The WIP is required to identify opportunities to improve water quality, reduce contribution of pollutants to water bodies with impairments and TMLDs, and to address stormwater flooding to protect human health, safety, and the environment. Watershed to complete stormwater inventory by mapping required features, data, and to

complete a Watershed Inventory Report. Phase 2 will evaluate the information found in Phase 1 to determine what potential improvement projects may be implemented to address water quality and quantity concerns. In Phase 3, permittees will identify which of the potential improvement projects they are choosing to implement and identify schedules

Figure 1: HUC14 Sub watersheds within the Township of Cinnaminson



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Electronic Data to be Uploaded to NJDEP Online

- Drainage Areas for Outfalls
    - Topographical Map
    - Shape File
- Stormwater Interconnections
    - Shape File
- Drainage Area for Each Interconnections
    - Topographical Map
    - Shape File
- Non-Municipally Owned Stormwater Infrastructure
    - Shape File

Acronyms & Definitions

1. *Acronyms*
    - *i. "BMP" – Best Management Practice*
    - *ii. "DO" – Dissolved Oxygen*
    - *iii. "EPA" – U.S. Environmental Protection Agency iv.*
    - *iv. "GIS" – Geographic Information System*
    - *v. "HUC 14" – Hydrologic Unit Code 14*
    - *vi. "MS4" – Municipal Separate Storm Sewer System*
    - *vii. "MTD" – Manufactured Treatment Device*

viii. *"NJPDES" – New Jersey Pollutant Discharge Elimination System*

ix. *"NJ-WET" – New Jersey Watershed Evaluation Tool*

x. *"TDS" – Total Dissolved Solids*

xi. *"TMDL" – Total Maximum Daily Load*

xii. *"TSS" – Total Suspended Solids*

xiii. *"WIP" – Watershed Improvement Plan*

xiv. *"DEM" – Digital Elevation Model*

2. *Definitions*

i. *"HUC 14" or "hydrologic unit code 14" means an area within which water drains to a particular receiving surface water body, also known as a sub watershed, which is identified by a 14-digit hydrologic unit boundary designation, delineated within New Jersey by the United States Geological Survey. (N.J.A.C. 7:9B)*

ii. *"Municipal separate storm sewer" (or MS4 conveyance) means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) as defined in more detail at N.J.A.C. 7:14A-1.2.*

iii. *"Outfall" means any point source which discharges directly to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States.*

iv. *"Storm drain inlet" means the point of entry into the storm sewer system.*

v. *"Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface, is transmitted to the subsurface, is captured by separate storm sewers or other sewerage or drainage facilities or is conveyed by snow removal equipment.*

vi. *"Stormwater facility" means stormwater infrastructure including, but not limited to, catch basins, infiltration basins, detention basins, green infrastructure (GI), filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, Manufactured Treatment Devices (MTDs), and stormwater conveyances.*

vii. *"Stormwater management basin" means a stormwater management basin as defined in N.J.A.C. 7:8.*

viii. *"Stormwater management measure" means a stormwater management measure as defined in N.J.A.C. 7:8.3*

ix. *"Stormwater runoff" means water flow on the surface of the ground or in storm sewers, resulting from precipitation.*

x. *"Total maximum daily load" or "TMDL" means a total maximum daily load formally established pursuant to Section 7 of the Water Quality Planning Act (N.J.S.A. 58:11A-7) and Section 303(d) of the Clean Water Act, 33 U.S.C. §§12512 et seq. A TMDL is the sum of individual waste load allocations for point sources, load allocations for nonpoint sources of pollution, other sources such as tributaries or adjacent segments, and allocations to a*

reserve or margin of safety for an individual pollutant.

xi. *"Waters of the State" means the Burlington and its estuaries, all springs, streams and bodies of surface or ground water, whether natural or artificial, within the boundaries of the State of New Jersey or subject to its jurisdiction" (see N.J.A.C. 7:9B-1.4).*

Public Participation

The Township plans on having several meetings with the Stakeholders. Stakeholders are listed below. Engaging with stakeholders opens a channel of communication and collaboration.

- List of stakeholders
  - Stephanie Kravil – Cinnaminson Township Mayor
  - Committee Members
  - Eric T. Schubiger – Township Administrator
  - Kevin Gauntt– Cinnaminson Township Superintendent of Public Works
  - New Jersey Department of Transportation
  - Burlington County
  - Delaware River Keeper - https://delawareriverkeeper.org/
  - Remington & Vernick Engineers

- Future Scheduled Meetings
  - Public Meetings for the Watershed Improvement Plan will be scheduled during the Public Council Meetings. Public Council Meetings are the 1st and 3rd Mondays of every month.
    - First Meeting will be scheduled in late 2026 where the WIP will be introduced and open for public comment.
    - Second meeting will be scheduled for early 2027.
    - Meeting minutes and notes and a summary of feedback from stakeholders will be written up at each meeting and reported in WIP phase 2.
  - The Watershed Improvement Plan Phase 1 will be put on the dedicated stormwater webpage at: Stormwater – Cinnaminson Township

Stormwater Outfall(s)

The information utilized in this section was gathered using the Municipal Stormwater Infrastructure data field collected by Reminton and Vernick Engineers as part of the Outfall and MS4 Infrastructure Mapping Projects from 2020 and 2025. This data was processed using ArcGis software. Water Quality Classification Data was gathered from the NJDEP Open Data Portal. The data was accessed in December 2025. The findings are summarized below in Table 2 and Figure 2.

Stormwater Outfalls Owned/Operated by Permittee

- There are 106 outfalls owned and operated by the Township of Cinnaminson.

Receiving Surface Waters

See Table 2 below.

Water Quality Classifications

See Table 2 Below

Table 2: Receiving Surface Water Bodies & Water Quality Classifications

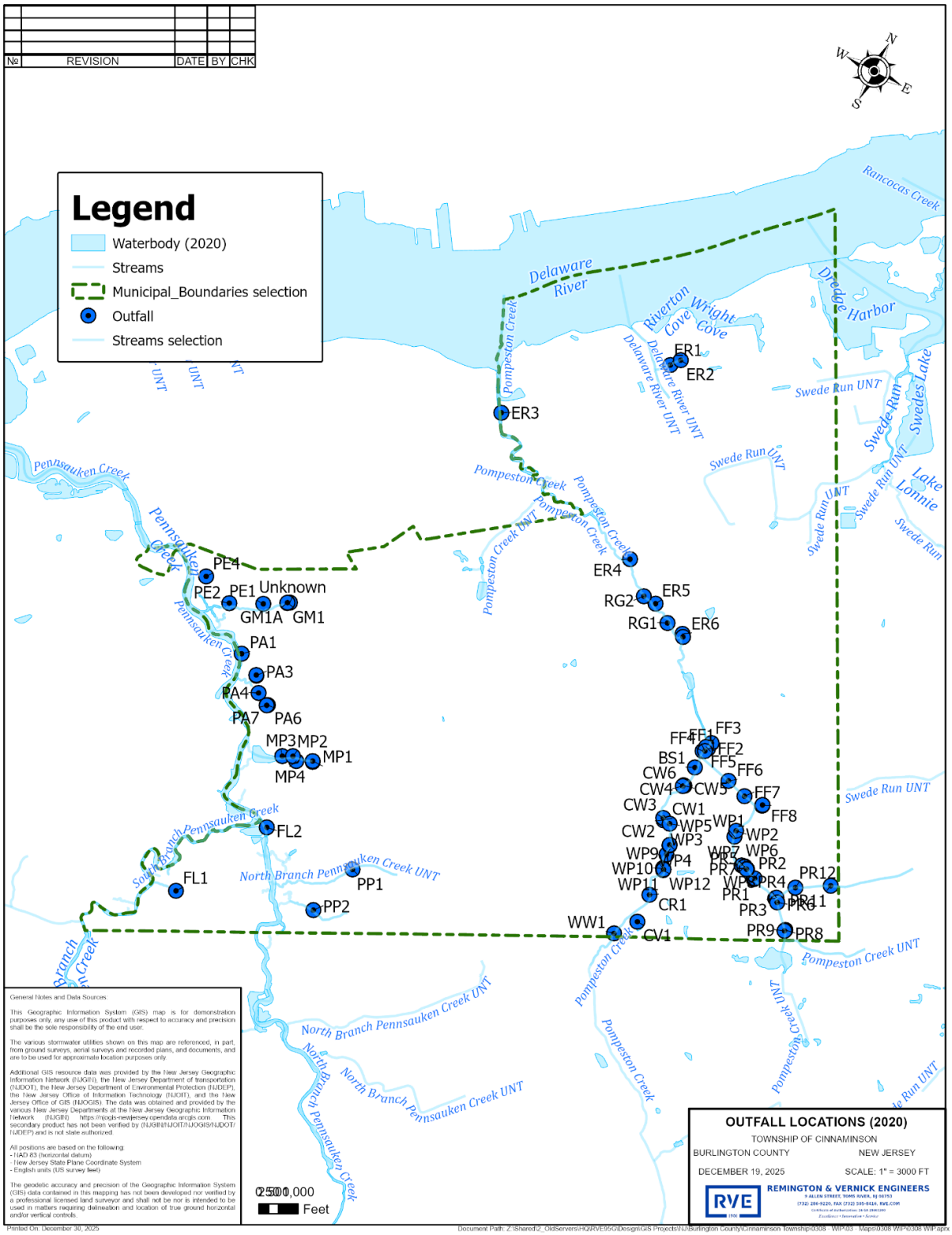
Local Outfall ID	Outfall Type	Receiving Surface Water Body	Water Quality Classification
OF-001	Outfall Pipe	Wetlands	
OF-002	Outfall Pipe	Wetlands	
OF-003	Outfall Pipe	Pompeston Creek tributary	FW2-NTC1
OF-004	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-005	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-006	Outfall Pipe	Pompeston Creek	FW2-NT
OF-007	Outfall Pipe	Pompeston Creek	FW2-NT
OF-008	Outfall Pipe	Pompeston Creek	FW2-NT
OF-009	Outfall Pipe	South Branch Pennsauken Creek	FW2-NT
OF-010	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-011	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-012	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-013	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-014	Open Channel Outfall	Pennsauken Creek	FW2-NT
OF-015	Outfall Pipe	Pompeston Creek	FW2-NT
OF-016	Outfall Pipe	Pompeston Creek	FW2-NT
OF-017	Outfall Pipe	Pompeston Creek	FW2-NT
OF-018	Outfall Pipe	Pompeston Creek	FW2-NT
OF-019	Outfall Pipe	Pompeston Creek	FW2-NT
OF-020	Outfall Pipe	Pompeston Creek	FW2-NT

OF-021	Outfall Pipe	Pompeston Creek	FW2-NT
OF-022	Outfall Pipe	Pompeston Creek	FW2-NT
OF-023	Outfall Pipe	Pompeston Creek	FW2-NT
OF-024	Outfall Pipe	Pompeston Creek	FW2-NT
OF-025	Outfall Pipe	Pompeston Creek	FW2-NT
OF-026	Outfall Pipe	Pompeston Creek	FW2-NT
OF-027	Outfall Pipe	Pompeston Creek	FW2-NT
OF-028	Outfall Pipe	Pompeston Creek	FW2-NT
OF-029	Outfall Pipe	North Branch Pennsauken Creek tributary	FW2-NT
OF-030	Outfall Pipe	Pompeston Creek	FW2-NT
OF-031	Outfall Pipe	Pompeston Creek	FW2-NTC1
OF-032	Outfall Pipe	Pompeston Creek	FW2-NTC1
OF-033	Outfall Pipe	Pompeston Creek	FW2-NTC1
OF-034	Outfall Pipe	Pompeston Creek	FW2-NTC1
OF-035	Outfall Pipe	Delaware River tributary	FW2-NT
OF-036	Outfall Pipe	Delaware River tributary	FW2-NT
OF-037	Outfall Pipe	Pompeston Creek	FW2-NT
OF-038	Outfall Pipe	Pompeston Creek	FW2-NTC1
OF-039	Outfall Pipe	Pompeston Creek	FW2-NTC1
OF-040	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-041	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-042	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-043	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-044	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-045	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-046	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-047	Outfall Pipe	North Branch Pennsauken Creek tributary	FW2-NT
OF-048	Outfall Pipe	Pompeston Creek	FW2-NT
OF-049	Outfall Pipe	Pompeston Creek	FW2-NT
OF-050	Outfall Pipe	Pompeston Creek	FW2-NT
OF-051	Outfall Pipe	Pompeston Creek	FW2-NT
OF-052	Outfall Pipe	Pompeston Creek	FW2-NT
OF-053	Outfall Pipe	Pompeston Creek	FW2-NT
OF-054	Outfall Pipe	Pompeston Creek	FW2-NT
OF-055	Outfall Pipe	Pompeston Creek	FW2-NT
OF-056	Outfall Pipe	Pompeston Creek	FW2-NT
OF-057	Outfall Pipe	Pompeston Creek	FW2-NT
OF-058	Outfall Pipe	Pompeston Creek	FW2-NT
OF-059	Outfall Pipe	Pompeston Creek	FW2-NT
OF-060	Outfall Pipe	Pompeston Creek	FW2-NT
OF-061	Outfall Pipe	Pompeston Creek	FW2-NT

OF-062	Outfall Pipe	Pompeston Creek	FW2-NT
OF-063	Outfall Pipe	Pompeston Creek	FW2-NT
OF-064	Outfall Pipe	Pompeston Creek	FW2-NT
OF-065	Outfall Pipe	Pompeston Creek	FW2-NT
OF-066	Outfall Pipe	Pompeston Creek	FW2-NT
OF-067	Outfall Pipe	Pompeston Creek	FW2-NT
OF-068	Outfall Pipe	Pompeston Creek	FW2-NT
OF-069	Outfall Pipe	Pompeston Creek	FW2-NT
OF-070	Outfall Pipe	Pompeston Creek	FW2-NT
OF-071	Outfall Pipe	Pompeston Creek	FW2-NT
OF-072	Outfall Pipe	North Branch Pennsauken Creek tributary	FW2-NT
OF-073	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-074	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-075	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-076	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-077	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-078	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-079	Outfall Pipe	Pompeston Creek	FW2-NT
OF-080	Outfall Pipe	Pompeston Creek	FW2-NT
OF-081	Outfall Pipe	Pompeston Creek	FW2-NT
OF-082	Outfall Pipe	Pompeston Creek	FW2-NT
OF-083	Outfall Pipe	Pompeston Creek	FW2-NT
OF-084	Outfall Pipe	Pompeston Creek	FW2-NT
OF-085	Outfall Pipe	Swede Run tributary	FW2-NT
OF-086	Outfall Pipe	North Branch Pennsauken Creek tributary	FW2-NT
OF-087	Outfall Pipe	North Branch Pennsauken Creek tributary	FW2-NT
OF-088	Outfall Pipe	Pompeston Creek	FW2-NT
OF-089	Outfall Pipe	Pompeston Creek	FW2-NT
OF-090	Outfall Pipe	Pompeston Creek	FW2-NT
OF-091	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-092	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-093	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-094	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-095	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-096	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-097	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-098	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-099	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-100	Outfall Pipe	Pennsauken Creek	FW2-NT
OF-101	Outfall Pipe	Pennsauken Creek tributary	FW2-NTC1

OF-102	Outfall Pipe	Pennsauken Creek tributary	FW2-NTC1
OF-103	Outfall Pipe	Pennsauken Creek tributary	FW2-NT
OF-104	Outfall Pipe	Delaware River	
OF-105	Outfall Pipe	South Branch Pennsauken Creek tributary	FW2-NT
OF-106	Outfall Pipe	Pennsauken Creek tributary	FW2-NT

Figure 2: Township of Cinnaminson Stormwater Outfalls



Stormwater Interconnection(s)

The information utilized in this section was gathered using Municipal Stormwater Infrastructure data field collected by Remington & Vernick Engineers as part of the Outfall and MS4 Infrastructure Mapping Projects from 2020 and 2025. County stormwater infrastructure was provided by Burlington County. This data was processed using ArcGis software. The data was accessed in December 2025. The findings are summarized below and in Table 3 and Figure 3.

There are 78 interconnection points in the MS4 system.

Interconnections from the permittee's MS4 into another entity

- There are 41 interconnections from the Township of Cinnaminson's MS4 infrastructure into other entities MS4 systems.
    - Burlington County Highway 18
    - Private BMPs 21
    - Moorestown 1
    - School BMP 1

- Each of these interconnections are directed piped connection.

Interconnection(s) into the permittee's MS4 from another entity (for Tier A permittees only)

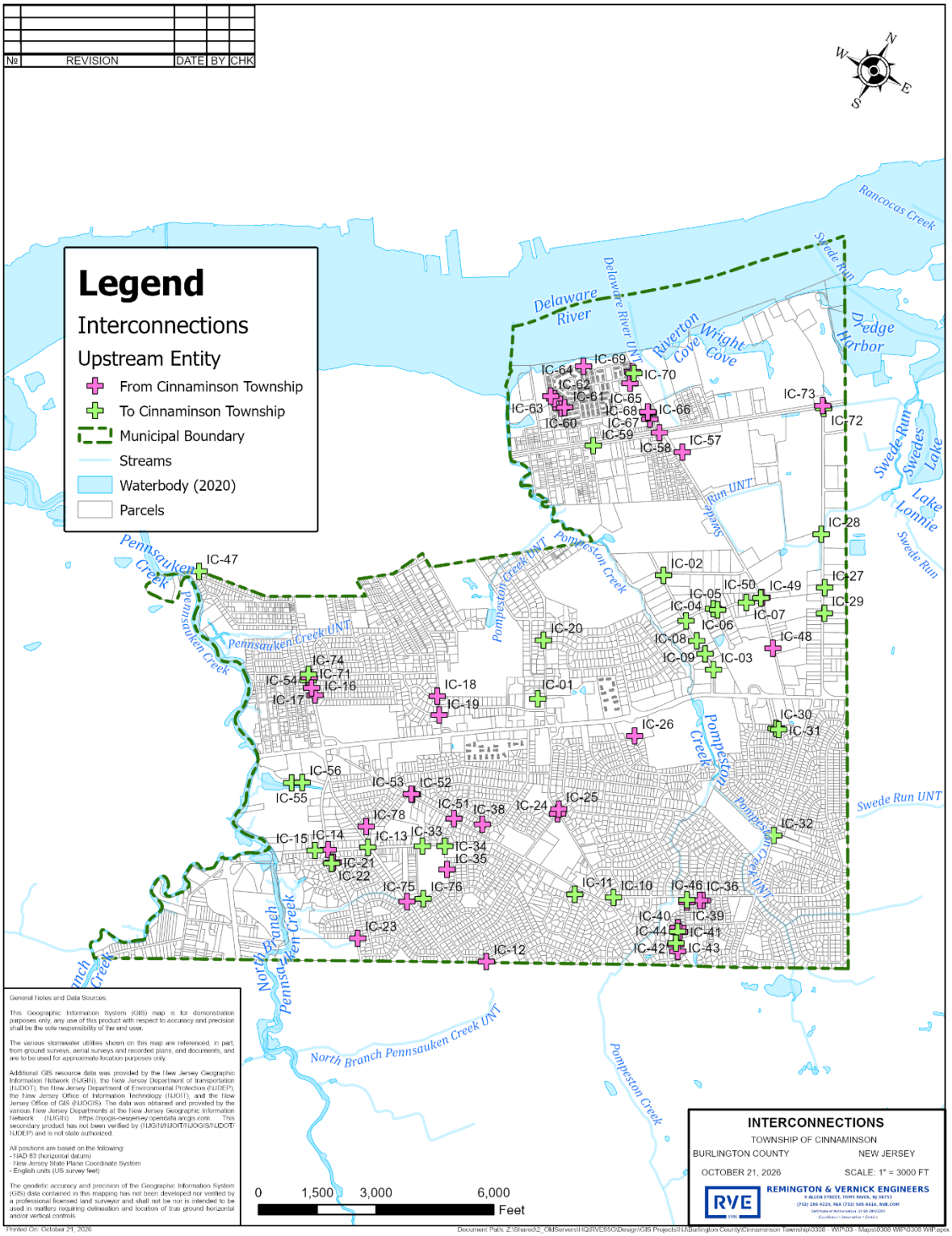
- There are 36 interconnections from other entities MS4 systems into the Township of Cinnaminson's MS4 infrastructure.
    - Burlington County Highway 10
    - Private 24
    - School 1
    - Palmyra 1

Table 3: Stormwater Interconnections from and Into the Township of Cinnaminson

Local Interconnect ID	Interconnection Type	Upstream Entity	Downstream Entity
IC-01	Pipe	Burlington County	Cinnaminson Township
IC-02	Pipe	Private	Cinnaminson Township
IC-03	Pipe	Private	Cinnaminson Township
IC-04	Pipe	Private	Cinnaminson Township
IC-05	Pipe	Private	Cinnaminson Township
IC-06	Pipe	Private	Cinnaminson Township
IC-07	Pipe	Private	Cinnaminson Township
IC-08	Pipe	Private	Cinnaminson Township
IC-09	Pipe	Private	Cinnaminson Township
IC-10	Pipe	Burlington County	Cinnaminson Township
IC-11	Pipe	Burlington County	Cinnaminson Township
IC-12	Pipe	Cinnaminson Township	Moorestown Township
IC-13	Pipe	Burlington County	Cinnaminson Township
IC-14	Pipe	Cinnaminson Township	Burlington County
IC-15	Pipe	Burlington County	Cinnaminson Township
IC-16	Pipe	Cinnaminson Township	Burlington County
IC-17	Pipe	Burlington County	Cinnaminson Township
IC-18	Pipe	Cinnaminson Township	Burlington County
IC-19	Pipe	Cinnaminson Township	Burlington County
IC-20	Pipe	Burlington County	Cinnaminson Township
IC-21	Pipe	Cinnaminson Township	Burlington County
IC-22	Pipe	Burlington County	Cinnaminson Township
IC-23	Pipe	Cinnaminson Township	Burlington County
IC-24	Pipe	Cinnaminson Township	Burlington County
IC-25	Pipe	Cinnaminson Township	Burlington County
IC-26	Pipe	Cinnaminson Township	Private
IC-27	Pipe	Private	Cinnaminson Township
IC-28	Pipe	Private	Cinnaminson Township
IC-29	Pipe	Private	Cinnaminson Township
IC-30	Pipe	Private	Cinnaminson Township
IC-31	Pipe	Private	Cinnaminson Township
IC-32	Pipe	Private	Cinnaminson Township
IC-33	Pipe	School	Cinnaminson Township
IC-34	Pipe	Private	Cinnaminson Township
IC-35	Pipe	Cinnaminson Township	School
IC-36	Pipe	Cinnaminson Township	Private
IC-37	Pipe	Cinnaminson Township	Private

IC-38	Pipe	Cinnaminson Township	Burlington County
IC-39	Pipe	Cinnaminson Township	Private
IC-40	Pipe	Cinnaminson Township	Private
IC-41	Pipe	Cinnaminson Township	Private
IC-42	Pipe	Cinnaminson Township	Private
IC-43	Pipe	Cinnaminson Township	Private
IC-44	Pipe	Private	Cinnaminson Township
IC-45	Pipe	Private	Cinnaminson Township
IC-46	Pipe	Private	Cinnaminson Township
IC-47	Pipe	Palmyra Borough	Cinnaminson Township
IC-48	Pipe	Cinnaminson Township	Private
IC-49	Pipe	Cinnaminson Township	Private
IC-50	Pipe	Private	Cinnaminson Township
IC-51	Pipe	Cinnaminson Township	Burlington County
IC-52	Pipe	Cinnaminson Township	Burlington County
IC-53	Pipe	Cinnaminson Township	Burlington County
IC-54	Pipe	Burlington County	Cinnaminson Township
IC-55	Pipe	Private	Cinnaminson Township
IC-56	Pipe	Private	Cinnaminson Township
IC-57	Pipe	Cinnaminson Township	Private
IC-58	Pipe	Cinnaminson Township	Burlington County
IC-59	Pipe	Private	Cinnaminson Township
IC-60	Pipe	Cinnaminson Township	Private
IC-61	Pipe	Cinnaminson Township	Private
IC-62	Pipe	Cinnaminson Township	Private
IC-63	Pipe	Cinnaminson Township	Private
IC-64	Pipe	Cinnaminson Township	Private
IC-65	Pipe	Cinnaminson Township	Private
IC-66	Pipe	Cinnaminson Township	Private
IC-67	Pipe	Cinnaminson Township	Private
IC-68	Pipe	Cinnaminson Township	Private
IC-69	Pipe	Cinnaminson Township	Private
IC-70	Pipe	Private	Cinnaminson Township
IC-71	Pipe	Cinnaminson Township	Burlington County
IC-72	Pipe	Private	Cinnaminson Township
IC-73	Pipe	Cinnaminson Township	Burlington County
IC-74	Pipe	Burlington County	Cinnaminson Township
IC-75	Pipe	Cinnaminson Township	Burlington County
IC-76	Pipe	School	Cinnaminson Township
IC-77	Pipe	Cinnaminson Township	Burlington County
IC-78	Pipe	Cinnaminson Township	Burlington County

Figure 3: Interconnections into and from the Permittee's MS4



Drainage Area(s) for Stormwater Outfalls and Stormwater Interconnections

The information utilized in this section was gathered using data from the 2019 New Jersey LiDAR flyover and Municipal Stormwater Infrastructure data field collected by Remington & Vernick Engineers as part of the Outfall and MS4 Infrastructure Mapping Projects from 2020 and 2025. County stormwater infrastructure was provided by Burlington County. This data was processed using QGIS, SAGA, PCRaster, and GDAL software. The data was accessed in December 2025. The findings are summarized below and in Table 3 and Figure 4 and Figure 5. Drainage area calculation methods are also described below.

Storm Drain Inlets

- The Township of Cinnaminson owns and operates 931 storm drain inlets and catch basins.

MS4 Outfall Drainage Areas

- Utilizing QGIS, SAGA, PCRaster, and GDAL, the DEM from the LiDAR flyover was clipped to the Township's Boundary with a 500-foot buffer.
- The clipped DEM was pre-processed to make it hydraulically correct with a max fill depth of 1 foot.
- Flow directions were determined from the pre-processed DEM.
- Outfall drainage areas were determined by calculating and vectorizing the upslope areas of each outfalls' upstream stormwater network.

Drainage area of interconnection(s) from the permittee to another entity

- Utilizing QGIS, SAGA, PCRaster, and GDAL, the DEM from the LiDAR flyover was clipped to the Township's Boundary with a 500-foot buffer.
- The clipped DEM was pre-processed to make it hydraulically correct with a max fill depth of 1 foot.
- Flow directions were determined from the pre-processed DEM.
- The interconnection pipe network was categorized by receiving interconnections
- The Interconnection drainage areas were determined by calculating and vectorizing the upslope areas of each interconnect's upstream stormwater network.

Figure 4: Outfall Drainage Area(s)

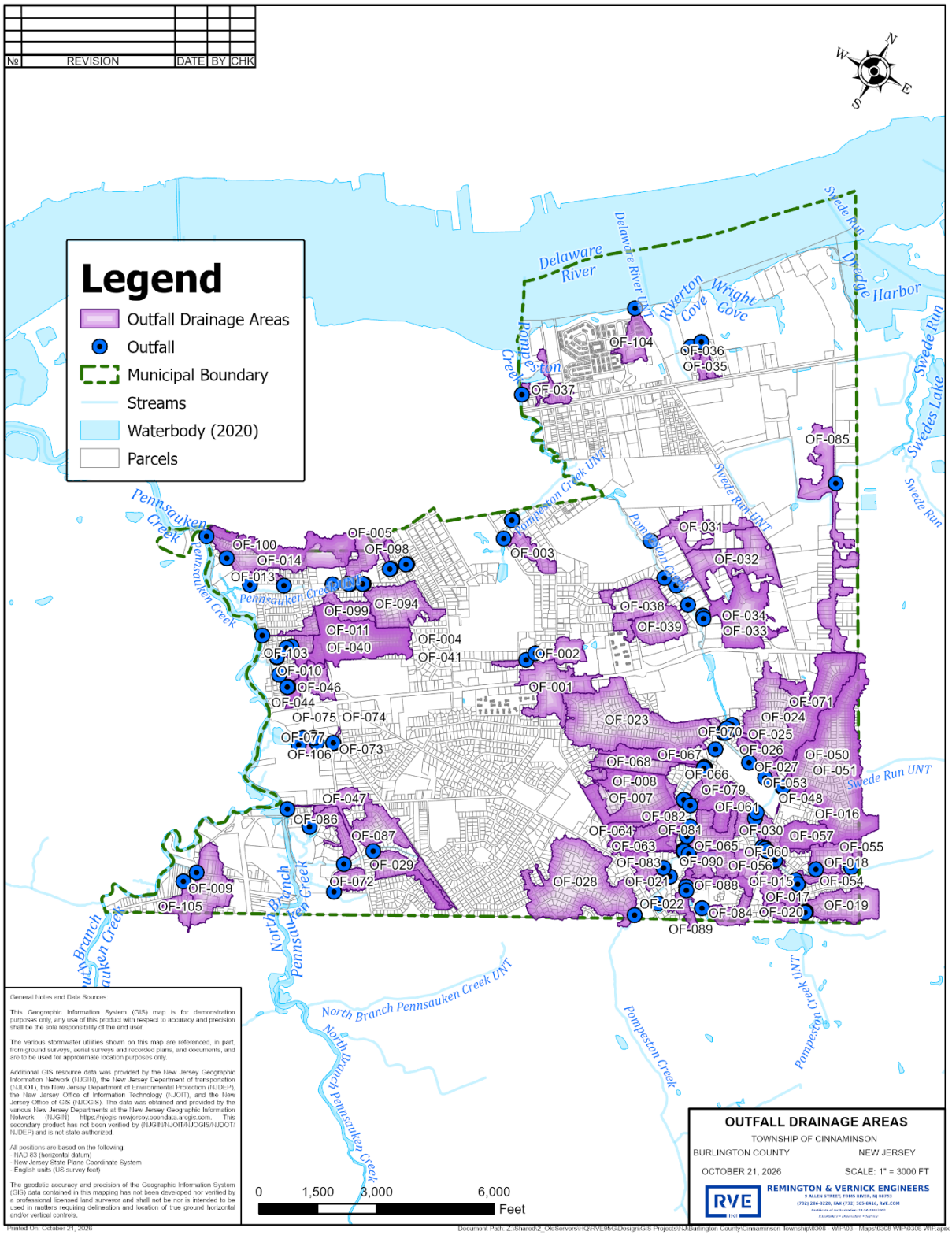


Figure 5: Interconnection Drainage Area(s)

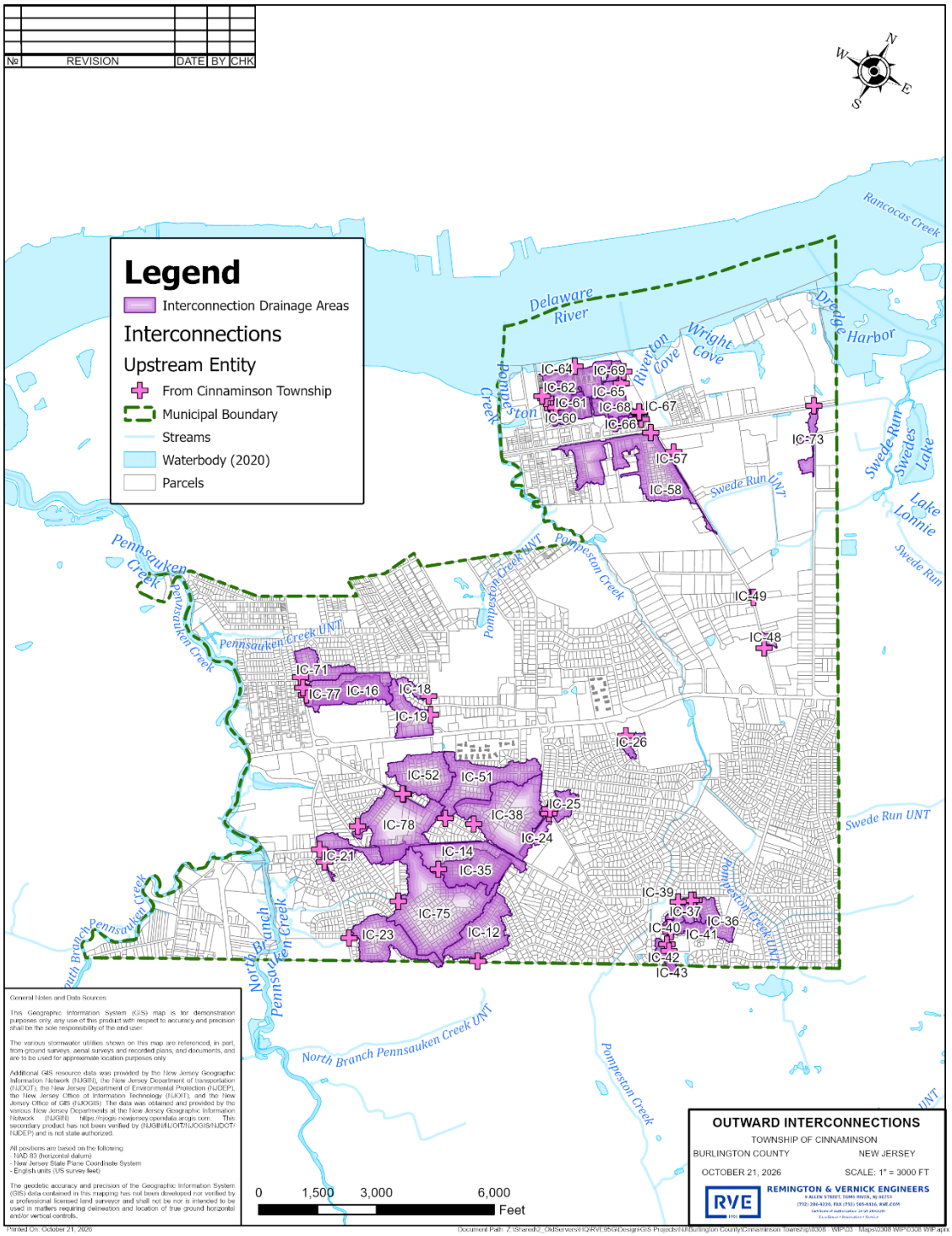


Table 4: Drainage Areas for Outfalls and Outward Interconnections

Drainage Area ID	Drainage Area (acres)	Outfall	Primary Contributing Drainage Area Type
OF-010	1.8082	MS4 Outfall OF-010	Residential
OF-074	0.5331	MS4 Outfall OF-074	Commercial
OF-085	50.1137	MS4 Outfall OF-085	Commercial
OF-004	60.7538	MS4 Outfall OF-004	Residential
OF-037	13.4752	MS4 Outfall OF-037	Industrial
OF-066	5.7961	MS4 Outfall OF-066	Residential
OF-011	58.7228	MS4 Outfall OF-011	Residential
OF-031	22.2188	MS4 Outfall OF-031	Industrial
OF-005	18.8707	MS4 Outfall OF-005	Residential
OF-018	16.5599	MS4 Outfall OF-018	Residential
OF-087	46.1506	MS4 Outfall OF-087	Residential
OF-053	0.7626	MS4 Outfall OF-053	Residential
OF-003	11.4763	MS4 Outfall OF-003	Residential
OF-050	119.3412	MS4 Outfall OF-050	Residential
OF-040	59.4436	MS4 Outfall OF-040	Residential
OF-051	119.3412	MS4 Outfall OF-051	Residential
OF-016	18.6550	MS4 Outfall OF-016	Residential
OF-022	1.6047	MS4 Outfall OF-022	Residential
OF-015	9.5631	MS4 Outfall OF-015	Residential
OF-013	1.3083	MS4 Outfall OF-013	Residential
OF-017	7.5128	MS4 Outfall OF-017	Residential

OF-007	60.0666	MS4 Outfall OF-007	Residential
OF-100	29.8899	MS4 Outfall OF-100	Residential
OF-038	26.4854	MS4 Outfall OF-038	Residential
OF-075	0.5331	MS4 Outfall OF-075	Commercial
OF-103	0.1553	MS4 Outfall OF-103	Residential
OF-046	16.4564	MS4 Outfall OF-046	Residential
OF-036	3.8734	MS4 Outfall OF-036	Residential
OF-105	10.5997	MS4 Outfall OF-105	Residential
OF-044	7.0676	MS4 Outfall OF-044	Residential
OF-086	0.8498	MS4 Outfall OF-086	Residential
OF-060	0.0183	MS4 Outfall OF-060	Residential
OF-078	0.0025	MS4 Outfall OF-078	Park/Open Space
OF-048	7.6703	MS4 Outfall OF-048	Residential
OF-082	12.0669	MS4 Outfall OF-082	Residential
OF-030	4.7195	MS4 Outfall OF-030	Residential
OF-073	0.0032	MS4 Outfall OF-073	Commercial
OF-019	29.7164	MS4 Outfall OF-019	Residential
OF-002	11.6325	MS4 Outfall OF-002	Commercial
OF-077	0.0015	MS4 Outfall OF-077	Park/Open Space
OF-039	22.7504	MS4 Outfall OF-039	Residential
OF-014	60.8467	MS4 Outfall OF-014	Residential
OF-106	2.1683	MS4 Outfall OF-106	Park/Open Space
OF-068	35.9461	MS4 Outfall OF-068	Residential

OF-028	89.3235	MS4 Outfall OF-028	Residential
OF-094	34.5933	MS4 Outfall OF-094	Residential
OF-089	6.4531	MS4 Outfall OF-089	Residential
OF-065	3.4115	MS4 Outfall OF-065	Residential
OF-080	19.9309	MS4 Outfall OF-080	Residential
OF-024	94.7355	MS4 Outfall OF-024	Residential
OF-054	6.8922	MS4 Outfall OF-054	Residential
OF-009	32.0123	MS4 Outfall OF-009	Residential
OF-029	20.8735	MS4 Outfall OF-029	Residential
OF-061	11.1149	MS4 Outfall OF-061	Residential
OF-081	1.2477	MS4 Outfall OF-081	Residential
OF-001	39.6959	MS4 Outfall OF-001	Commercial
OF-090	21.2243	MS4 Outfall OF-090	Residential
OF-026	8.2670	MS4 Outfall OF-026	Residential
OF-020	8.1878	MS4 Outfall OF-020	Residential
OF-021	3.0023	MS4 Outfall OF-021	Residential
OF-025	0.3771	MS4 Outfall OF-025	Park/Open Space
OF-041	59.4436	MS4 Outfall OF-041	Residential
OF-057	20.9429	MS4 Outfall OF-057	Residential
OF-064	18.3840	MS4 Outfall OF-064	Residential
OF-067	13.5082	MS4 Outfall OF-067	Residential
OF-084	12.1750	MS4 Outfall OF-084	Residential
OF-079	14.7277	MS4 Outfall OF-079	Residential

OF-059	0.3350	MS4 Outfall OF-059	Residential
OF-063	17.1877	MS4 Outfall OF-063	Residential
OF-071	58.1275	MS4 Outfall OF-071	Residential
OF-056	12.7179	MS4 Outfall OF-056	Residential
OF-033	46.8583	MS4 Outfall OF-033	Commercial
OF-088	8.0264	MS4 Outfall OF-088	Residential
OF-083	11.9294	MS4 Outfall OF-083	Residential
OF-034	46.8336	MS4 Outfall OF-034	Commercial
OF-008	51.1469	MS4 Outfall OF-008	Residential
OF-055	5.0587	MS4 Outfall OF-055	Residential
OF-047	11.8899	MS4 Outfall OF-047	Residential
OF-072	9.6890	MS4 Outfall OF-072	Residential
OF-099	12.2381	MS4 Outfall OF-099	Residential
OF-006	18.6985	MS4 Outfall OF-006	Residential
OF-012	0.9586	MS4 Outfall OF-012	Residential
OF-035	3.7369	MS4 Outfall OF-035	Residential
OF-104	15.3323	MS4 Outfall OF-104	Residential
OF-098	2.9214	MS4 Outfall OF-098	Residential
OF-023	95.7935	MS4 Outfall OF-023	Residential
OF-032	41.1582	MS4 Outfall OF-032	Industrial
OF-027	3.5851	MS4 Outfall OF-027	Residential
OF-070	1.9910	MS4 Outfall OF-070	Residential

Drainage Area ID	Drainage Area (acres)	Interconnection	Primary Contributing Drainage Area Type
IC-12	33.6857	Interconnection to Moorestown Township	Residential
IC-14	68.9079	Interconnection to Burlington County	Residential
IC-16	21.1023	Interconnection to Burlington County	Residential
IC-18	4.9052	Interconnection to Burlington County	Residential
IC-19	20.4809	Interconnection to Burlington County	Residential
IC-21	4.8716	Interconnection to Burlington County	Residential
IC-23	32.9407	Interconnection to Burlington County	Residential
IC-24	5.7241	Interconnection to Burlington County	Park/Open Space
IC-25	7.5912	Interconnection to Burlington County	Residential
IC-26	3.9359	Interconnection to Private	Residential
IC-35	28.1059	Interconnection to School Board	Residential
IC-36	11.7047	Interconnection to Private	Residential
IC-37	4.1352	Interconnection to Private	Residential
IC-38	61.7592	Interconnection to Burlington County	Residential
IC-39	3.4046	Interconnection to Private	Residential
IC-40	1.2966	Interconnection to Private	Residential
IC-41	5.6621	Interconnection to Private	Residential
IC-42	5.0135	Interconnection to Private	Residential
IC-43	2.2800	Interconnection to Private	Residential
IC-48	2.0038	Interconnection to Private	Commercial
IC-49	0.3375	Interconnection to Private	Commercial
IC-51	44.0609	Interconnection to Burlington County	Residential
IC-52	32.4378	Interconnection to Burlington County	Residential
IC-57	0.8748	Interconnection to Private	Industrial
IC-58	66.2595	Interconnection to Burlington County	Industrial
IC-60	5.0961	Interconnection to Private	Residential
IC-61	7.9802	Interconnection to Private	Residential
IC-62	6.5382	Interconnection to Private	Residential
IC-63	1.3619	Interconnection to Private	Residential
IC-64	20.0504	Interconnection to Private	Residential
IC-65	8.9022	Interconnection to Private	Residential
IC-66	3.6363	Interconnection to Private	Residential
IC-67	5.5671	Interconnection to Private	Residential
IC-68	5.0209	Interconnection to Private	Residential
IC-69	4.0969	Interconnection to Private	Residential
IC-71	15.5646	Interconnection to Burlington County	Residential
IC-73	7.8842	Interconnection to Burlington County	Industrial
IC-75	84.7323	Interconnection to Burlington County	Residential
IC-77	35.6290	Interconnection to Burlington County	Residential
IC-78	55.3915	Interconnection to Burlington County	Residential

TMDLs and Water Quality Impairments

In accordance with Section 305(b) and 303(d) of the Federal Clean Water Act, the State of New Jersey is required to assess the overall water quality of the State's waters and identify those waterbodies with a water quality impairment for which Total Maximum Daily Loads (TMDL) may be necessary. NJDEP fulfills its assessment obligation under the Clean Water Act through the Integrated Water Quality Monitoring and Assessment Report (Integrated Report), which includes the Integrated List of Waterbodies, issued biennially. The Integrated Report can be found at:

https://dep.nj.gov/wms/bears/integrated-wq-assessment-report-2022

The New Jersey Integrated Water Quality Assessment Report (Integrated Report) is a compilation of information about the quality of New Jersey's surface waters. The New Jersey Department of Environmental Protection (DEP) prepares the Integrated Report as a biennial assessment of statewide water quality that identifies and prioritizes waters for protection, restoration, and additional monitoring or research. The Integrated Report thus serves as an effective tool for enhancing, maintaining, and restoring water quality in all surface waters of the State to support their use for aquatic life, recreation, water supply, fish consumption, and shellfish harvest for consumption.

Under this obligation, NJDEP has established an Ambient Biomonitoring Network (AMNET) to document the health of the state's waterways. The AMNET Program is a sampling program that supports the water quality inventory report and list of impaired waters. The AMNET site is found at:

https://www.nj.gov/dep/wms/bfbm/amnet.html

There are over 760 AMNET sites throughout the state of New Jersey. These sites area sampled for benthic macroinvertebrate by the NJDEP on a five-year cycle. Streams are classified as nonimpaired, moderately impaired, or severely impaired based on the AMNET data. The data is used to generate a New Jersey Impairment Score (NJIS), which is based on a number of biometrics related to benthic macroinvertebrate community dynamics. Based on the Integrated Report, the Department identifies waterbodies for which a Total Maximum Daily Load (TMDL) may be necessary.

A Total Maximum Daily Load (TMDL) is the amount of a pollutant that can be accepted by a waterbody without causing an. exceedance of water quality standards or interfering with the ability to use a waterbody for one or more of its designated uses. The allowable load is allocated to the various sources of the pollutant, such as stormwater and wastewater discharges, which require an NJPDES permit to discharge, and nonpoint source, which includes stormwater runoff from agricultural areas and residential areas, along with a margin of safety. Provisions may also be made for future sources in the form of reserve capacity. An implementation plan is developed to identify how the various sources will be reduced to the designated allocations. Implementation strategies may include improved stormwater treatment plants, adoption of ordinances, reforestation of stream corridors, retrofitting stormwater, systems, and other BMPs.

Total Maximum Daily Load (TMDL) Information

Municipality and County
Cinnaminson Township
Burlington County

Total Maximum Daily Load(TMDL) Information for Selected Municipality:

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Polychlorinated Biphenyls (PCBs) for Zones 2 - 5 of the Tidal Delaware River

  Polychlorinated Biphenyls (PCBs) - 2003 : Pennsauken Ck (below NB / SB) : View the TMDL Document
- Total Maximum Daily Loads for Polychlorinated Biphenyls (PCBs) for Zones 2 - 5 of the Tidal Delaware River

  Polychlorinated Biphenyls (PCBs) - 2003 : Pennsauken Ck NB (below Strawbridge Lk) : View the TMDL Document
- Total Maximum Daily Loads for Polychlorinated Biphenyls (PCBs) for Zones 2 - 5 of the Tidal Delaware River

  Polychlorinated Biphenyls (PCBs) - 2003 : Pennsauken Ck SB (below Rt 41) : View the TMDL Document
- Total Maximum Daily Loads for Polychlorinated Biphenyls (PCBs) for Zones 2 - 5 of the Tidal Delaware River

  Polychlorinated Biphenyls (PCBs) - 2003 : Pompeston Ck (below Rt130/Swede to 40d) : View the TMDL Document
- Total Maximum Daily Loads for Polychlorinated Biphenyls (PCBs) for Zones 2 - 5 of the Tidal Delaware River

  Polychlorinated Biphenyls (PCBs) - 2003 : Pompeston Creek (above Rt 130) : View the TMDL Document
- Total Maximum Daily Loads for Polychlorinated Biphenyls (PCBs) for Zones 2 - 5 of the Tidal Delaware River

  Polychlorinated Biphenyls (PCBs) - 2003 : Swede Run : View the TMDL Document

Applicable Lake TMDL(s)

None

Applicable Shellfish TMDL(s)

None

Pathogens (Enterococcus, E. Coli, Fecal Coliform, Total Coliform)

Pathogens, including enterococcus, E. Coli, fecal coliform, and total coliform, enter the receiving waters when stormwater comes into contact with sources of these pathogens, such as pet waste, animal waste from geese and other wildlife, some farming activities, illicit discharges, failing sewage conveyance systems and septic systems, combined sewage overflows, and sanitary sewer overflows (SSOs). While sewage treatment plants contribute a steady input of treated sewage to their receiving waters, stormwater runoff is the primary contributor to pathogen loads in surface waters of the state (*Pollutants of Concern document).*

When receiving surface waters include shellfish harvesting as a designated use, pathogens also pose additional concerns. Proximity to potential sources such as marinas, development served by septic systems and concentrated stormwater outfall locations warrant precautionary closures of shellfish waters on a seasonal or full-time basis. The National Shellfish Sanitation Program has established criteria for pathogens that are used to determine support of the shell-fishing use (*Pollutants of Concern document).*

Dissolved Oxygen

Dissolved oxygen (DO) refers to the concentration of oxygen gas incorporated into the water. Low levels of oxygen (hypoxia) or no oxygen levels (anoxia) can occur when excess organic materials are decomposed by microorganisms. During this decomposition process, the DO in the water is consumed. As DO levels drop, some sensitive animals may move away, decline in health, or even die. Due to this, DO is considered an important measure of water quality as it is a direct indicator of a water body's ability to support aquatic life. While each organism has its own DO tolerance range, generally, DO levels below 3 mg/L are of concern and waters with levels below 1 mg/L are considered hypoxic and usually cannot support life.

While no specific map for dissolved oxygen (DO) levels within the Township of Cinnaminson is publicly available, environmental agencies monitor the general area through state and federal programs.

How to access dissolved oxygen data New Jersey Department of Environmental Protection (NJDEP).
The NJDEP's Bureau of Environmental Analysis, Restoration and Standards has an interactive Geographic Information System (GIS) mapping tool, NJ-GeoWeb, that allows users to view and analyze various environmental data, including water quality. You can view water quality data for specific monitoring stations within the state's watersheds.

- **NJ-GeoWeb**: dep.nj.gov/wms/bears/water-quality-assessment/gis-and-resources/

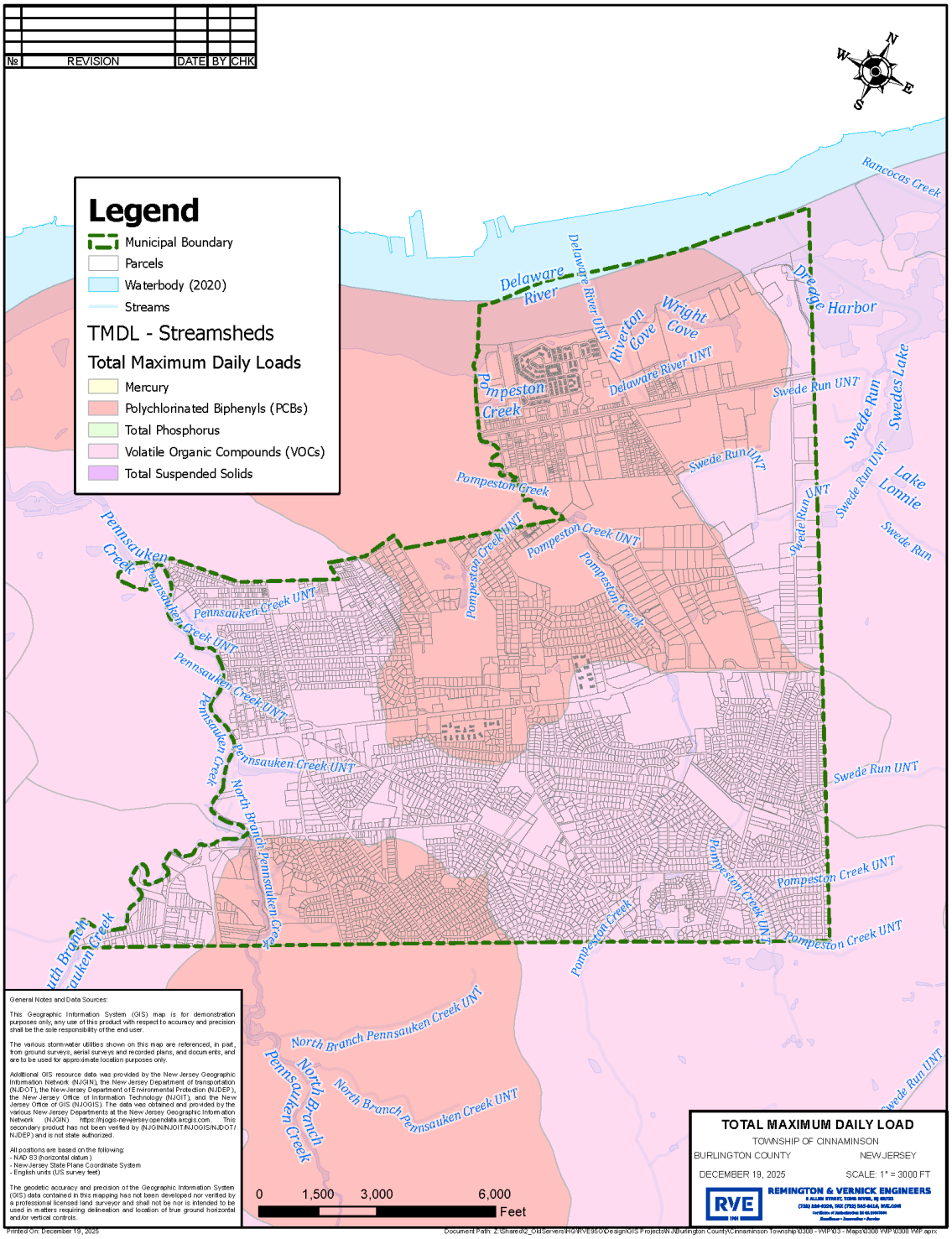
- **NJDEP Open Data**: gisdata-njdep.opendata.arcgis.com/

Below in Table 5 and Figure 6 summarize the information found using NJDEP's NJ-WET tool.

Table 5: TMDLs and Impairments for Sub watersheds within or bordering the Township of Cinnaminson

HUC14	Subwatershed Name	TMDL	Impairments
2040202100060	Pennsauken Ck (below NB / SB)	Streamshed Polychlorinated Biphenyls (PCBs) Volatile Organic Compounds (VOCs)	DISSOLVED OXYGEN
2040202100030	Pennsauken Ck NB (below Strawbridge Lk)	Streamshed Polychlorinated Biphenyls (PCBs) Volatile Organic Compounds (VOCs)	ESCHERICHIA COLI (E. COLI)
2040202100050	Pennsauken Ck SB (below Rt 41)	Streamshed Polychlorinated Biphenyls (PCBs) Volatile Organic Compounds (VOCs)	PHOSPHORUS, TOTAL
2040202090030	Pompeston Ck (below Rt130/Swede to 40d)	Streamshed Polychlorinated Biphenyls (PCBs) Volatile Organic Compounds (VOCs)	PCBS IN FISH TISSUE
2040202090020	Pompeston Creek (above Rt 130)	Streamshed Polychlorinated Biphenyls (PCBs) Volatile Organic Compounds (VOCs)	DISSOLVED OXYGEN
2040202090010	Swede Run	Streamshed Polychlorinated Biphenyls (PCBs) Volatile Organic Compounds (VOCs)	ESCHERICHIA COLI (E. COLI)

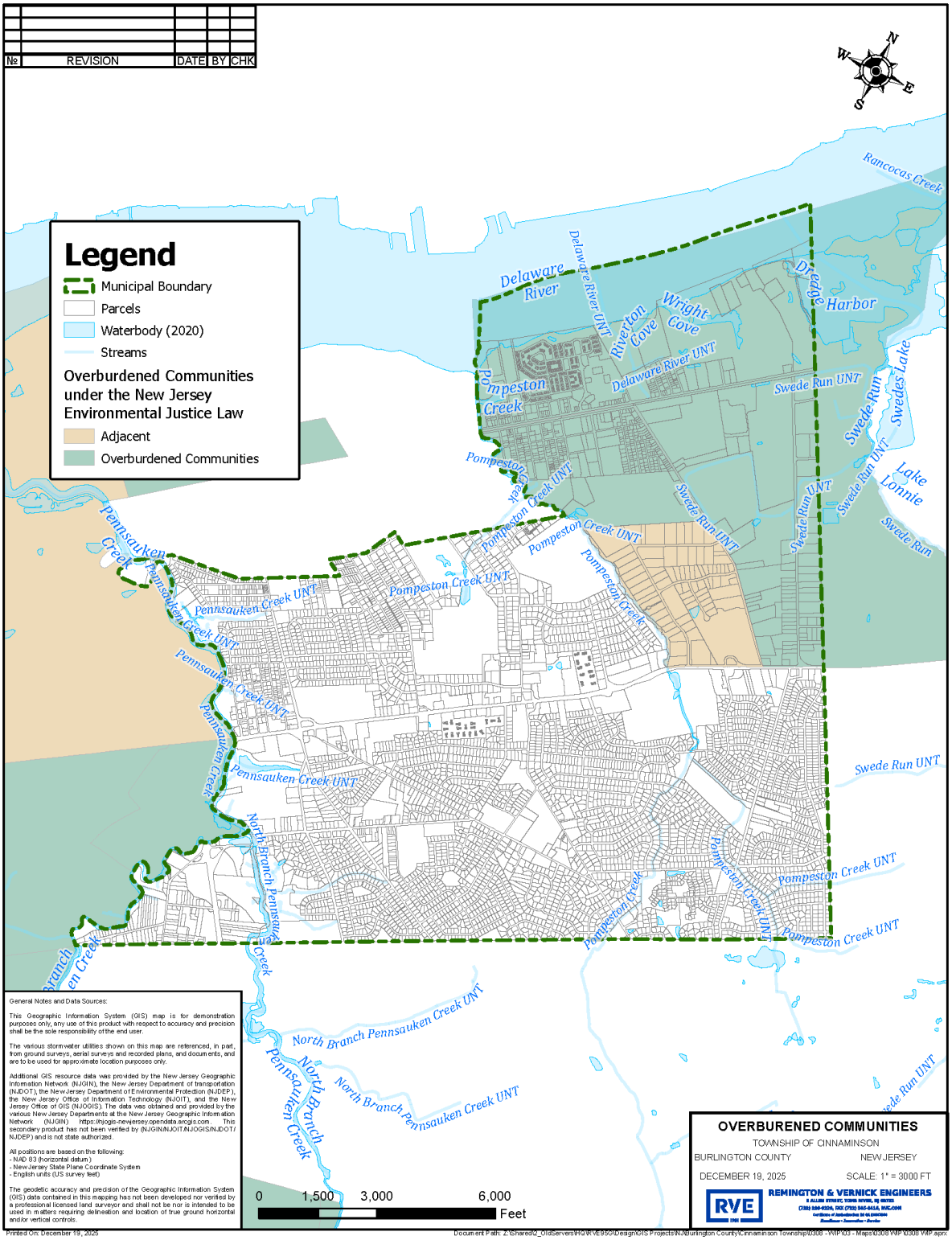
Figure 6: TMDLs by Parameter for Cinnaminson Township



Overburdened Communities (*for Tier A permittees only)*

Township of Cinnaminson is listed as an overburdened community in Burlington County, New Jersey, according to a map from the New Jersey Department of Environmental Protection. Overburdened communities are defined by specific criteria related to low-income households, minority populations, or limited English proficiency. The state's Environmental Justice Law requires the NJDEP to evaluate the impact of certain facilities on these communities.

Figure 7: Overburdened Communities within the Township of Cinnaminson



Impervious Area

Information regarding impervious cover was gathered using NJ-WET and NJDEP Open Data. The impervious areas within the Township are shown in Figure 8 and summarized in Table 6.

Impervious cover can have considerable impacts on ecosystem and stream health. Due to an increase in stormwater runoff caused by impervious cover, the potential for pollutants to be carried to streams and rivers increases, which in turn can impact stream quality. Additionally, stormwater runoff discharging into streams increases the volume of water traveling within those streams. Increases in stream volume can lead to changes in stream conditions as it reaches equilibrium, such as increases in erosion, sediment load, and other stream attributes.

Using Scheuler's Model of Impervious Cover (Schueler,2009), which predicts stream quality based on the corresponding impervious cover in the corresponding watershed, the following conclusions can be drawn about the streams in the HUC14 sub watersheds of Cinnaminson:

Table 6: Impervious Coverage by HUC14 Sub watersheds within the Township of Cinnaminson

HUC14	Sub watershed Name	HUC14 Acres	Impervious Cover Type	Imervious Acres	HUC14 % Impervious
2040202100060	Pennsauken Ck (below NB / SB)	952.15	**Overall**	**348.17**	**36.57%**
			Building	81.83	8.59%
			Other	151.64	15.93%
			Road	114.70	12.05%
2040202100030	Pennsauken Ck NB (below Strawbridge Lk)	392.43	**Overall**	**111.48**	**28.41%**
			Building	28.33	7.22%
			Other	43.31	11.04%
			Road	39.84	10.15%
2040202100050	Pennsauken Ck SB (below Rt 41)	132.97	**Overall**	**32.29**	**24.28%**
			Building	5.79	4.35%
			Other	11.25	8.46%
			Road	15.25	11.47%
2040202090030	Pompeston Ck (below Rt130/Swede to 40d)	1938.69	**Overall**	**619.11**	**31.93%**
			Building	144.71	7.46%
			Other	353.79	18.25%
			Road	120.60	6.22%
2040202090020	Pompeston Creek (above Rt 130)	1203.27	**Overall**	**419.50**	**34.86%**
			Building	117.25	9.74%
			Other	169.89	14.12%
			Road	132.36	11.00%
2040202090010	Swede Run	454.58	**Overall**	**99.67**	**21.93%**
			Building	28.61	6.29%
			Other	57.63	12.68%
			Road	13.43	2.95%

Figure 8: Impervious Area within the Township of Cinnaminson



Non-Municipally Owned or Operated Stormwater Facilities (*for Tier A permittees only*)

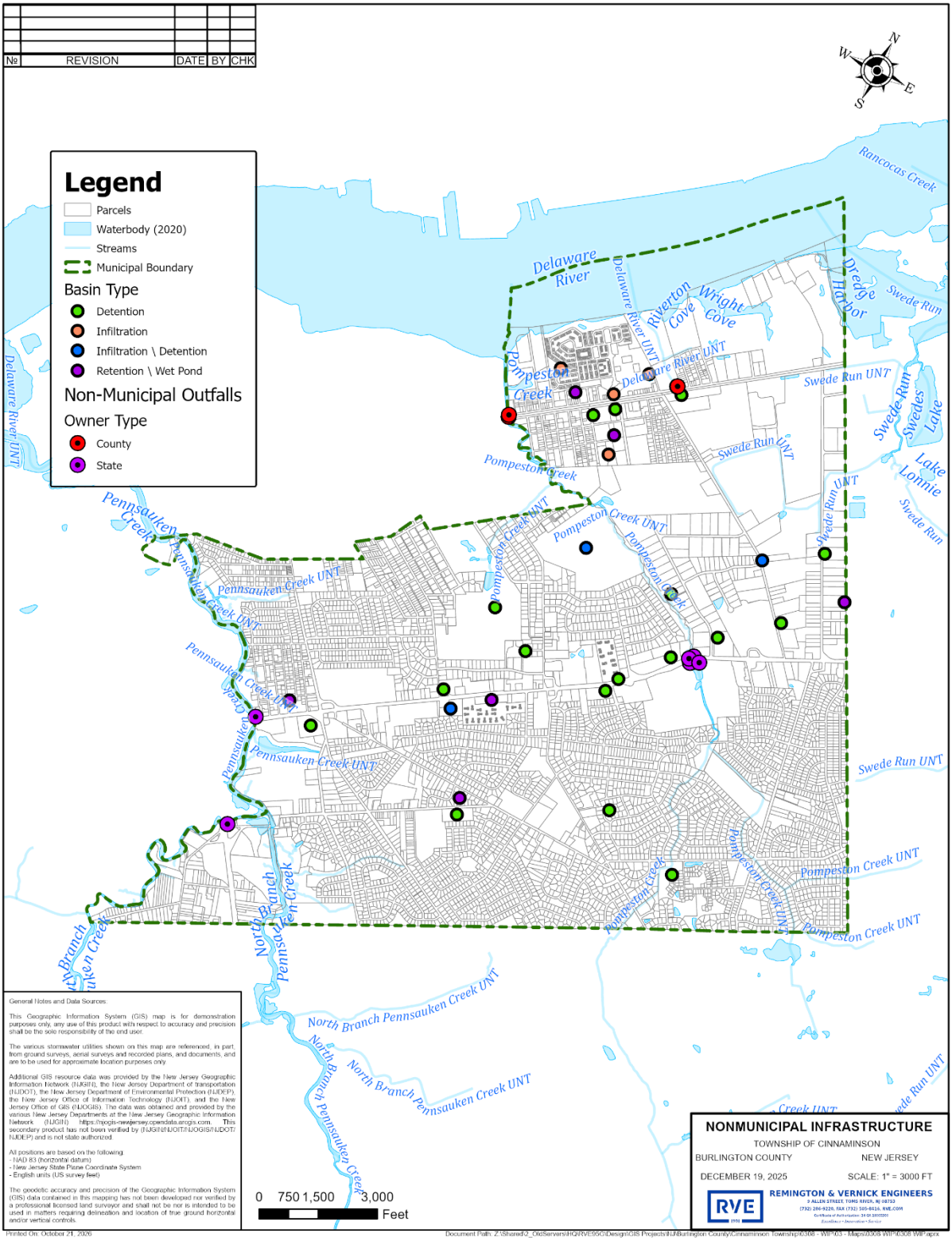
There are 43 stormwater facilities within the Township of Cinnaminson are not municipally owned. Their locations are shown in Figure 9 below as well as summarized in Table 7.

Table 7: Non-municipally Owned/Operated Stormwater Infrastructure in the Township of Cinnaminson

Basin ID	Project Name	HUC14	Project Block	Project Lot	Basin Type
110211	Transtar Moving Systems	2040202090030	702	25	Detention
105577	Davo Trading Co.	2040202090010	701	6	Detention
113264	Warehouse	2040202090030	402	6 8 9	Retention \ Wet Pond
109552	Professional Complex	2040202100060	1912	3	Retention \ Wet Pond
105612	TNT Equipment Inc	2040202090010	702	25	Infiltration \ Detention
101480	Site	2040202090030	1302	2.02	Detention
107254	The Village	2040202090030	0	0	Infiltration
112276	Branchfork	2040202100060	2003B	12	Retention \ Wet Pond
108344	Senior Project	2040202090020	1004	45	Detention
103032	Friendly's	2040202090030	1304	19	Detention
108471	The Merion	2040202090020	901	40	Detention
107800	Cinnaminson Nursery	2040202100060	3410	27	Detention
113254	Warehouse Addition	2040202090030	506	2	Retention \ Wet Pond
106313	Federal Savings Bank	2040202090030	2102	64 65	Infiltration \ Detention
109537	Snowden Avenue Station	2040202090030	na	na	Detention
108711	1704 Taylors Lane Development	2040202090010	701	17	Retention \ Wet Pond
107891	Village at Cinnaminson Harbour	2040202090030	0	0	Infiltration
113269	Village at Cinnaminson Harbour	2040202090030	0	0	Infiltration
101668	Airco	2040202090030	610	2.01	Detention
103057	Meadowview Farm	2040202090020	3106	1.01	Detention
103816	Meadowview Farm	2040202090020	3106	1.01	Detention
107513	Meadowview Farm	2040202090020	3106	1.01	Detention
110552	Meadowview Farm	2040202090020	3106	1.01	Detention
111931	Meadowview Farm	2040202090020	3106	1.01	Detention
105758	Max's Restaurant	2040202090030	2202	32.02	Retention \ Wet Pond
110995	Pep Boys	2040202100060	2001	3	Detention
102896	Centron Coatings	2040202090030	504	15	Detention
111180	Centron Coatings	2040202090030	504	15	Detention
112428	Centron Coatings	2040202090030	504	15	Detention
108464	Village at Cinnaminson Harbor	2040202090030	0	0	Infiltration
109282	Village at Cinnaminson Harbor	2040202090030	0	0	Infiltration

Basin ID	Project Name	HUC14	Project Block	Project Lot	Basin Type
100681	Sea Box Inc	2040202090030	506	4.02 5	Infiltration
106823	U Haul Self Storage	2040202090030	805	2	Detention
100985	Cloisters At Sofia Ct	2040202090020	2404	40	Detention
104187	Amka Construction Services	2040202090030	806	7	Detention
100569	Riverton Country Club	2040202090030	1201	2	Detention
101465	Riverton Country Club	2040202090030	1201	2	Detention
105885	Riverton Country Club	2040202090030	1201	2	Detention
106888	Riverton Country Club	2040202090030	1201	2	Detention
108209	Riverton Country Club	2040202090030	1201	2	Detention
110687	Riverton Country Club	2040202090030	1201	2	Detention
114696	Proposed Retail Development	2040202090020	2302	5	Detention
115073	Cinnaminson H.S. Addition	2040202090030	1102	1	Infiltration \ Detention

Figure 9: Non-municipally Owned/Operated Stormwater Infrastructure in the Township of Cinnaminson



Conclusion

This Watershed Inventory Report, Phase 1 of the Watershed Improvement Plan, identifies stormwater infrastructure, as required in the MS4 permits. It also summarizes water quality data, including stream classifications, TMDLs, and water quality impairments. The data that accompanies this inventory report has been compiled as an electronic map and submitted to the NJDEP through NJDEP Online via the Document Submittal Service. The information from this inventory report will be used to make informed decisions during the creation of the Watershed Assessment Report, Phase 2 of the Watershed Improvement Plan. The work done in Phase 2 will identify areas of potential concern and where potential water quality improvement projects may be implemented to address any water quality and quantity issues identified in this inventory report.

Appendix A

FEMA National Flood Layer Street List

MUN	CINNAMINSON TWP	
	STREET	Affected Length (ft)
100 Year Flood Zone	Adams Street	1513.87
	Bannard Street	2856.52
	Barberry Drive	59.94
	Barclay Street	397.41
	Belleview Avenue	367.36
	Betsy Ross Bridge	950.33
	Broad Street	3618.39
	Calhoun Street	1086.28
	Camelot Court	961.00
	Canal Avenue	343.39
	Carlton Drive	265.31
	Carriage Way	98.96
	Chalfont Street	484.63
	Cherry Lane	39.24
	Clay Street	228.38
	Cuthbert Road	543.06
	Delaware Drive	305.12
	Devon Road	705.89
	Division Street	352.66
	Erlington Drive	1139.14
	Fairfax Drive	1479.13
	Fountain Court	105.24
	Foxcroft Drive	815.94
	Glacier Drive	135.34
	Glenview Drive	1484.48
	Greenbriar Court	132.81
	Harbour Boulevard	553.19
	Helen Drive	20.55
	Hilton Road	931.63
	Industrial Highway	113.89
	Inman Street	868.18
	Jefferson Street	1361.77
	Kern Street	865.31
	Lejune Road	430.92
	Louis Street	51.91

Madison Street	364.70
Main Street	265.84
Mayer Road	202.80
New Albany Road	391.23
North Pompess Avenue	426.01
North Randolph Avenue	1630.67
North Read Street	499.96
North Snowden Avenue	282.09
Odonnells Lane	91.84
Oxford Road	968.70
Paddock Lane	184.40
Park Avenue	275.79
Parry Road	873.82
Pennsauken Street	941.99
Pheasant Run Drive	244.40
Pleasant Avenue	238.64
Read	185.10
Riverside Drive	540.46
Riverton Road	322.33
Rowland Street	145.74
Saxony Drive	89.66
Sequoia Drive	6.38
South Bellview Avenue	105.04
South Fork Landing Road	1546.11
South Pleasant Avenue	44.32
South Pompess Avenue	430.76
South Randolph Avenue	247.89
South Snowden Avenue	197.24
South Warrington Avenue	137.28
State Highway 73	133.57
Taylors Lane	1764.23
Thomas Avenue	146.65
US Highway 130	235.34
Washington Street	616.12
Wayne Drive	137.39
Webster Street	265.50
Wellfleet Road	46.92
White Birch Drive	87.68
Willow Drive	273.43
Woodhaven Drive	564.64
Zeisner Avenue	783.51

500 Year Flood Zone	Adams Street	173.47
	Alex Way	179.20
	Bannard Street	611.38
	Barberry Drive	283.63
	Barclay Street	501.06
	Berwick Drive	438.65
	Broad Street	1999.18
	Calhoun Street	103.45
	Camelot Court	4197.12
	Carriage Way	120.26
	Chalfont Street	371.42
	Cherry Lane	40.86
	Clay Street	194.80
	Creekview Drive	223.60
	Cuthbert Road	292.16
	Devon Court	41.57
	Devon Road	500.53
	Division Street	666.85
	Erlington Drive	488.18
	Essex Drive	290.93
	Exeter Place	196.18
	Fairfax Drive	430.12
	Fela Drive	1285.94
	Fountain Avenue	1166.83
	Fountain Court	221.34
	Glacier Drive	502.78
	Glenview Drive	357.84
	Greenbriar Court	42.03
	Harbour Boulevard	911.78
	Helen Drive	1649.24
	Industrial Highway	206.10
	Inman Street	85.00
	Jakob Court	161.07
	Jason Drive	952.50
	Jefferson Street	382.07
	Kern Street	84.00
	Lejune Road	722.71
	Lenola Road	9.80
	Louis Street	438.94
	Lukas Court	218.47
	Madison Street	317.63

Main Street	115.30
Mayer Road	43.12
Michele Way	16.58
Nathan Drive	865.58
New Albany Road	300.38
Odonnells Lane	68.48
Oxford Road	561.81
Paddock Lane	16.54
Park Avenue	71.73
Parry Road	138.82
Pear Avenue	646.31
Pennsauken Street	26.95
Perry Way	163.70
Plantation Drive	36.17
Read	209.45
Riverton Road	143.17
Rowland Street	329.47
Saxony Drive	15.41
Sequoia Drive	511.89
South Bellview Avenue	157.48
South Fork Landing Road	500.97
South Pleasant Avenue	121.85
South Randolph Avenue	458.35
South Snowden Avenue	104.82
South Warrington Avenue	73.28
State Highway 73	130.25
Sycamore Terrace	22.81
Taylors Lane	873.94
Thomas Avenue	96.56
Union Landing Road	429.96
Washington Street	51.51
Waterford Drive	675.57
Wayne Drive	151.85
Webster Street	103.64
White Birch Drive	38.25
Whitmore Street	320.44
Willow Drive	259.72
Windsor Avenue	75.85
Zeisner Avenue	83.27

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