Table 2-1
Summary of Characteristics of Major Soil Components

Soil Group	Soil Symbol	High Water Table [2] (ft)	Soil Depth [1] (ft)	Limiting Permeability [1] (in/hr)	Limiting Septic Features [3]
Brinkerton	BtB	0.0 - 0.5	5.1	0.06 - 0.6	Very Limited: restricted permeability, depth to saturated zone
Comly	BtB	1.0 - 3.0	5.1	0.2 - 0.6	Very Limited: restricted permeability, depth to saturated zone
Clarksburg	CmA	1.5 - 3.0	7	0.06 - 0.6	Very Limited: restricted permeability, depth to saturated zone
Edgemont	EhB, EhC	N/D	5	0.6 - 6	Somewhat Limited: depth to bedrock
Gladstone	GeA - D	N/D	5.7	0.2 - 0.6	Very Limited: depth to bedrock
Gladstone	GfB - D	N/D	5.7 - 6.5	0.6 - 2	Not Limited
Glenville	GnB	0.5 - 3.0	6.8	0.06 - 0.6	Very Limited: restricted permeability, depth to saturated zone
Hazelton	HeD, HeF	N/D	4.6	2 - 6	Very Limited: filtering capacity
Holly	Ho	0.0 - 1.0	5.2	0.2 - 2	Very Limited: flooding, depth to saturated zone, restricted permeability
Laidig	LaB, LaC, LbB	2.5 - 4.0	5.2	0.06 - 0.6	Very Limited: restricted permeability, depth to saturated zone
Middlebury	Me	0.5 - 2.0	5.3	0.6 - 2	Very Limited: flooding, depth to saturated zone, filtering capacity, restricted permeability
Murrill	MuB, MuC	N/D	5.3	0.2 - 2	Somewhat Limited: restricted permeability
Neshaminy	NaC	N/D	4.5	0.2 - 0.6	Very Limited: restricted permeability
Penn	PkC	N/D	3.7	0.2 - 6	Very Limited: depth to bedrock
Towkee	ToA, ToB, TwB	0.0 - 0.5	6.3	0.06 - 0.2	Very Limited: restricted permeability, depth to saturated zone
Udorthents	Ua	5	5	0.06 - 0.2	Not Rated
Urban Land (w/ Laidag)	UkB	N/D	N/D	N/D	Not Rated
Urban Land (w/Berks)	UsD	N/D	N/D	N/D	Not Rated
Washington	WaB, WaC	N/D	5.9	0.6 - 2	Very Limited: filtering capacity, restricted permeability

Notes:
1 - Information obtained from Table J1b, USDA-NRCS NASIS Pangaea Reports
2 - Information obtained from Table K1, USDA-NRCS NASIS Pangaea Reports
3 - Information obtained from Table ENG-5, USDA-NRCS NASIS Pangaea Reports

Table 2-2

Prime Agricultural Soil Types Within Upper Milford Township

Map symbol	Soil name
CmA	Clarksburg silt loam, 0 to 3 percent slopes
EhB	Edgemont channery loam, 3 to 8 percent slopes
GeA	Gladstone gravelly silt loam, 0 to 3 percent slopes
GeB	Gladstone gravelly silt loam, 3 to 8 percent slopes
GnB	Glenville silt loam, 3 to 8 percent slopes
LaB	Laidig gravelly loam, 3 to 8 percent slopes
Me	Middlebury silt loam
MuB	Murrill gravelly loam, 3 to 8 percent slopes
NaB	Neshaminy silt loam, 3 to 8 percent slopes
WaB	Washington silt loam, 3 to 8 percent slopes

3 - Information obtained from Table Y, USDA-NRCS NASIS Pangaea Reports

TABLE 2-3

DESCRIPTION OF ZONING CODES

	Rural Agricultural R-A	Rural Suburban - Residential RS-R	Suburban - Residential S-R	South Mountain Conservation District SM-C
Single Family Detached				
Public Sewer and Water	50,000	12,000	7,500	87,120
On-lot Sewer or Water	50,000	40,000	40,000	87,120
Two Family Detached				
Public Sewer and Water	NP	7,000	6,000	NP
On-lot Sewer or Water	NP	40,000	40,000	NP
Townhouse				
Public Sewer and Water	NP	3,500	3,500	NP
On-lot Sewer or Water	NP	NP	NP	NP
Other Multi-Family				
Public Sewer and Water	NP	NP	4,000	NP
On-lot Sewer or Water	NP	NP	NP	NP

NP – Not permitted

Table 2-4
Summary of 2001 Water Consumpion

Water System	Number of Users (edu)	Total Water Consumed (gallon)	Residental (gpd/edu)
Emmaus Borough	198	13,245,000	183
Philip Buss Water Company	89	5,756,130	177
Lehigh County Authority	57	N/D	176
Township Average			**179**

Table 2-5
Summary of 1996 On-site System Survey Results

	Number of Lots	Number Surveyed	Lots Vacant	Not Completed	Number of Serious Problems		Number of Minor Problems		Total Systems with Reported Problems		No Problem Indicated	
					(Number)	(%)	(Number)	(%)	(Number)	(%)		
Vera Cruz Road	32	31	0	1	10	31.3%	1	3.1%	10	31.3%	19	61.3%
Vera Cruz	65	57	4	4	19	31.1%	5	8.2%	24	39.3%	33	57.9%
Spruce Road	14	9	3	2	0	0.0%	0	0.0%	0	0.0%	9	100.0%
Moyer Subdivision	40	35	2	3	12	31.6%	1	2.6%	13	34.2%	22	62.9%
Main Street East	67	50	4	13	12	19.0%	2	3.2%	14	22.2%	36	72.0%
Old Zionsville	111	79	8	24	8	7.8%	5	4.9%	13	12.6%	66	83.5%
Powder Valley	19	12	1	6	1	5.6%	1	5.6%	2	11.1%	10	83.3%
Mill Road	3	1	0	2	1	33.3%	0	0.0%	1	33.3%	2	200.0%
Total	351	274	22	55	63	19.1%	15	4.6%	78	23.7%	197	71.9%

Source : Act 537 Offical Sewage Facilities Plan Update - Phase 1 Report
Note: Percentages do agree with those shown on original table

Table 2-6
Summary of 1996 Well Water Survey Results

		Needs Survey Water Samples			Recent Homeowner Water Samples			Totals			
	Number of Lots	Number Surveyed	Number of Contaminated Samples (Number)	(%)	Number Surveyed	Number of Contaminated Samples (Number)	(%)	Total Number Surveyed	Percent of Lots Surveyed	Total Contaminated samples (Number)	(%)
Vera Cruz Road	32	5	0	0.0%	2	1	50.0%	7	21.9%	1	14.3%
Vera Cruz	65	11	5	45.5%	6	1	16.7%	17	26.2%	6	35.3%
Spruce Road	14	2	1	50.0%				2	14.3%	1	50.0%
Moyer Subdivision	40	7	0	0.0%	4	0	0.0%	11	27.5%	0	0.0%
Main Street East	67	8	4	50.0%	1	1	100.0%	9	13.4%	5	55.6%
Old Zionsville	111	6	1	16.7%	6	1	16.7%	12	10.8%	2	16.7%
Powder Valley	19	3	0	0.0%	2	0	0.0%	5	26.3%	0	0.0%
Total	348	42	11	26.2%	21	4	19.0%	63	18.1%	15	23.8%

Source : Act 537 Offical Sewage Facilities Plan Update - Phase 1 Report
Note: Percentages do agree woth those shown on original table

Table 2-7
Summary of On Site Repair Records
Years 1992 - 2002

Year	Number of repair permits	Total number of permits
1992	32	56
1993	22	49
1994	25	41
1995	23	55
1996	26	64
1997	25	68
1998	39	74
1999	14	59
2000	11	47
2001	16	46
2002	20	58
Total	**221**	**561**

Table 2-8
Summary of Additional System Repair Data

Needs Area	Total Systems Surveyed	Number of Impacted Systems by BTG		Number of Impacted Systems by Limited Isolation Distances For Future Repairs		Number of Impacted Systems Located In Floodplain	
		Number	%	Number	%	Number	%
SC-1	26	2	7.69%	5	19.23%	0	0.00%
LC-1	25	4	16.00%	20	80.00%	0	0.00%
LC-2	146	27	18.49%	110	75.34%	33	22.60%
LC-3	37	4	10.81%	27	72.97%	0	0.00%
LC-4	41	1	2.44%	10	24.39%	1	2.44%
LC-5	91	7	7.69%	19	20.88%	0	0.00%
IC-1	128	4	3.13%	14	10.94%	0	0.00%
HC-1	56	1	1.79%	2	3.57%	0	0.00%
HC-2	109	15	13.76%	81	74.31%	0	0.00%
HC-3	19	4	21.05%	18	94.74%	0	0.00%
SWC-1	81	5	6.17%	34	41.98%	7	8.64%
LL-1	51	2	3.92%	16	31.37%	0	0.00%
LL-2	18	1	5.56%	13	72.22%	0	0.00%
Total	**828**	**77**	**9.30%**	**369**	**44.57%**	**41**	**4.95%**

Table 2-9
Summary of On Site System Survey

Needs Area	Total Systems Surveyed	Unknown Disposal Method		Suspected Systems with Problems		Confirmed Malfunctions[1]		Elevated Sand Mounds		Confirmed/ Suspected Cesspools	
		Number	%	Number	%	Number	%	Number	%	Number	%
SC-1	26	0	0.00%	4	15.38%	4	15.38%	3	11.54%	0	0.00%
LC-1	25	3	12.00%	7	28.00%	6	24.00%	2	8.00%	1	4.00%
LC-2	146	8	5.48%	34	23.29%	35	23.97%	12	8.22%	12	8.22%
LC-3	37	3	8.11%	6	16.22%	7	18.92%	6	16.22%	1	2.70%
LC-4	41	0	0.00%	5	12.20%	3	7.32%	6	14.63%	1	2.44%
LC-5	91	3	3.30%	6	6.59%	8	8.79%	17	18.68%	3	3.30%
IC-1	128	0	0.00%	5	3.91%	5	3.91%	13	10.16%	1	0.78%
HC-1	56	3	5.36%	4	7.14%	2	3.57%	1	1.79%	0	0.00%
HC-2	109	5	4.59%	8	7.34%	15	13.76%	5	4.59%	1	0.92%
HC-3	19	0	0.00%	3	15.79%	4	21.05%	1	5.26%	0	0.00%
SWC-1	81	0	0.00%	7	8.64%	8	9.88%	7	8.64%	3	3.70%
LL-1	51	1	1.96%	1	1.96%	2	3.92%	0	0.00%	1	1.96%
LL-2	18	4	22.22%	7	38.89%	5	27.78%	0	0.00%	3	16.67%
Total	**828**	**30**	**3.62%**	**97**	**11.71%**	**104**	**12.56%**	**73**	**8.82%**	**27**	**3.26%**

1- Includes system repairs using BTG

Table 2-10
Evaluation of Needs

Needs Area	Soils	Geology	Density	System Repairs	Suspected Malfunctions	Confirmed Malfunctions	Confirmed/ Suspected Cesspools	Floodplain Restrictions	Limiting Isolation Distances	Overall Rating
SC-1	High	High	High	High	Moderate	Slight	Moderate	Slight	Moderate	Moderate
LC-1	High	High	High	Moderate	High	Slight	Slight	Slight	High	Moderate
LC-2	High	High	High	Moderate	High	Moderate	Slight	High	High	High
LC-3	Moderate	High	High	High	Moderate	Moderate	Moderate	Slight	High	Moderate
LC-4	High	High	Moderate	High	Moderate	Slight	Moderate	Slight	High	Moderate
LC-5	High	High	High	High	Slight	Slight	Moderate	Slight	High	Moderate
IC-1	High	Moderate	Moderate	High	Slight	Slight	Moderate	Slight	Moderate	Moderate
HC-1	High	Moderate	High	High	Slight	Slight	Slight	Slight	Slight	Moderate
HC-2	High	Moderate	High	High	Slight	Slight	Slight	Slight	High	Moderate
HC-3	High	Moderate	High	High	Moderate	Slight	Slight	Slight	High	Moderate
SWC-1	High	High	High	High	Slight	Slight	Slight	Slight	High	Moderate
LL-1	High	Moderate	High	High	Slight	Slight	Slight	Slight	High	Moderate
LL-2	High	Moderate	High	High	High	High	Moderate	Slight	High	High
Risk Classifications										
High	(1)	(2)	<0.50/acre	>20%	>20%	>20%	>20%	>20%	>20%	
Moderate	(1)	(3)	0.5-2.0/acre	10-20%	10-20%	10-20%	10-20%	10-20%	10-20%	
Low	(1)	(4)	> 2.0/acre	<10%	<10%	<10%	<10%	<10%	<10%	

1 - Estimated average soil condition for area based SCS soil data
2- Areas underlain by carbonate rock
3 - Areas on the fringe of areas underlain by carbonate rock
4 - Areas not underlain by carbonate rock

Table 2-11
Summary of Detailed 2005 Needs Analysis
Village of Vera Cruz Area

Total Number of Properties	318	
Vacant	33	
Category	**Number**	**% *(1)***
Confirmed Malfunctions	99	37.22%
Suspected Malfunctions	52	19.55%
Potential Malfunctions	78	29.32%
No Malfunctions	37	13.91%
Total Surveyed	**266**	**100.00%**

(1) % of surveyed properties
(2) As per 07/13/05 meeting, deleted lots in PSA-1 That were in the Saucon Creek drainage basin

* Results based upon data provided by Brian Miller
UNiT SEO

Table 2-12
Existing Sewer Service Areas
Summary of Existing Sewer Users

ESA	Residential Customers	Total Residential EDU's (edu's)	Total Residential Population	Commerical Customers	Total Commerical EDU's (edu's)	Total Customers	Total EDU's (edu's)
1	2	2	6	0	0	2	2
2	8	8	25	0	0	8	8
3	30	30	92	0	0	30	30
4	45	45	138	1	3.62	46	48.62
5	1	1	3	0	0	1	1
6	57	66	203	10	8.63	67	74.63
7	26	26	80	0	0	26	26
8	202	211	648	32	97.11	234	308.11
9	2	2	6	0	0	2	2
10	3	3	9	0	0	3	9
Total	**373**	**391**	**1200**	**43**	**109.36**	**416**	**500.36**

EDU Flow Rate	275 gpd/edu
Occupancy Rate	3.07 people/house

Table 2-13
Proposed Sewer Service Areas
Summary of Existing Sewer Users

Proposed Sewer Service Area	Residential Population Projections				Commercial Users	Total Users
	Single Family (units)	Multi Family (units)	Total (units)	Estimated Population (mgd)	Total Units (units)	(units)
PSA - 1	23	0	23	71	0	**23**
PSA - 2	35	2	37	114	2	**39**
PSA - 3	139	38	177	543	21	**198**
PSA - 4	35	4	39	120	0	**39**
PSA - 5	40	2	42	129	1	**43**
PSA - 6	86	4	90	276	6	**96**
PSA - 7	126	2	128	393	1	**129**
PSA - 8	57	0	57	175	0	**57**
PSA - 9	99	11	110	338	4	**114**
PSA - 10	18	0	18	55	1	**19**
PSA - 11	72	7	79	243	15	**94**
PSA - 12	48	4	52	160	1	**53**
PSA - 13	16	5	21	64	0	**21**
PSA - 14	11	0	11	34	0	**11**
Total	**805**	**79**	**884**	**2715**	**52**	**936**

Occupancy rate 3.07 people/ household
Note: PSA1 through PSA4 Service Areas reflect users within defined Project Area that will receive initial sewer service

TABLE 2-14
PROPOSED SEWER SERVICE AREAS
REASONS FOR NEED

Service Area	2003 Needs Survey Area Designation	2003 Needs Survey Risk Factor	Request for Service
PSA - 1	SC-1	Moderate	N/A
PSA - 2	LC-1	Moderate	N/A
PSA - 3	LC-2	High	N/A
PSA - 4	LC-3	Moderate	N/A
PSA - 5	LC-4	Moderate	N/A
PSA - 6	LC-5	Moderate	N/A
PSA - 7	IC-1	Moderate	N/A
PSA - 8	HC-1	Moderate	N/A
PSA - 9	HC-2	Moderate	N/A
PSA - 10	HC-3	Moderate	N/A
PSA - 11	SWC-1	Moderate	N/A
PSA - 12	LL-1	Moderate	N/A
PSA - 13	LL-2	High	N/A
PSA-14	N/A	N/A	X

Note:
PSA 13 will be addressed using a PADEP Sewage Planning Module for a Minor Act 537 Revision
PSA 14 will be addressed by a Private Developer using a PADEP Planning Module

Table 2-16
New Housing Building Permits

Year	Number of New Housing Permits
1990	28
1991	29
1992	30
1993	39
1994	31
1995	57
1996	47
1997	58
1998	43
1999	36
2000	35
2001	31
2002	14 [1]
Average	38.7

1- Issued to date as of July 25, 2002

Average Annual Popluation Increase	119

Table 2-18
Existing Sewer Service Areas
Summary of Future Sewer Users

ESA	Residential Customers (edu's)	Total Residential Population (people)	Total Commerical EDU's (edu's)	Total EDU's (edu's)
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	200	614	0	200
6	2	6	0	2
7	0	0	0	0
8	300	921	5	305
9	0	0	0	0
10	0	0	0	0
Total	**502**	**1541**	**5**	**507**

EDU Flow Rate	275 gpd/edu
Occupancy Rate	3.07 people/house

Table 2-19
Proposed Sewer Service Areas
Summary of Future Projected Sewer Users

Proposed Sewer Service Area	Residential Users		Commercial Users	Total Users
	Housing Units	Estimated Population	Total Units	
	(units)		(units)	(units)
PSA - 1	0	0	0	**0**
PSA - 2	1	3	0	**1**
PSA - 3	26	80	5	**31**
PSA - 4	6	18	0	**6**
PSA - 5	40	123	0	**40**
PSA - 6	10	31	10	**20**
PSA - 7	20	61	5	**25**
PSA - 8	15	46	0	**15**
PSA - 9	10	31	10	**20**
PSA - 10	10	31	0	**10**
PSA - 11	10	31	20	**30**
PSA - 12	10	31	0	**10**
PSA - 13	10	31	0	**10**
PSA-14	3	9	0	**3**
Total	**171**	**525**	**50**	**221**

Occupancy rate 3.07 people/ household

Note: The are 11 future users within the Defined Project Area within PSA1 through PSA4

Table 2-21
Existing Service Area Flow Projections

Proposed Sewer Service Area	Existing Total Units (units)	Existing Estimated Flow (mgd)	Future Total Units (units)	Future Estimated Flow (mgd)	Commercial Flow Projections: Existing Total Units (units)	Commercial Flow Projections: Existing Estimated Flow (mgd)	Commercial Flow Projections: Future Total Units (units)	Commercial Flow Projections: Future Estimated Flow (mgd)	Industrial Flow Projections: Existing Total Units (units)	Industrial Flow Projections: Existing Estimated Flow (mgd)	Industrial Flow Projections: Future Total Units (units)	Industrial Flow Projections: Future Estimated Flow (mgd)	Total Flows: Existing (mgd)	Total Flows: Future (mgd)	Total Flows: Design (mgd)
ESA-1	2	0.001	0	0.000	0	0.0000	0	0.000	0	0.000	0	0.000	0.001	0.000	0.001
ESA - 2	8	0.002	0	0.000	0	0.0000	0	0.000	0	0.000	0	0.000	0.002	0.000	0.002
ESA - 3	30	0.008	0	0.000	0	0.0000	0	0.000	0	0.000	0	0.000	0.008	0.000	0.008
ESA - 4	45	0.012	0	0.000	1	0.0003	0	0.000	0	0.000	0	0.000	0.013	0.000	0.013
ESA - 5	1	0.000	200	0.055	0	0.0000	0	0.000	0	0.000	0	0.000	0.000	0.055	0.055
ESA - 6	66	0.018	2	0.001	10	0.0028	0	0.000	0	0.000	0	0.000	0.021	0.001	0.021
ESA - 7	26	0.007	0	0.000	0	0.0000	0	0.000	0	0.000	0	0.000	0.007	0.000	0.007
ESA - 8	211	0.058	300	0.083	32	0.0088	5	0.001	59.34	0.016	99.834	0.027	0.083	0.111	0.194
ESA - 9	2	0.001	0	0.000	0	0.0000	0	0.000	0	0.000	0	0.000	0.001	0.000	0.001
ESA-10	3	0.001	0	0.000	0	0.0000	0	0.000	0	0.000	0	0.000	0.001	0.000	0.001
Total	**394**	**0.108**	**502**	**0.138**	**43**	**0.012**	**5**	**0.001**	**59**	**0.016**	**100**	**0.027**	**0.136**	**0.167**	**0.303**

1- Flow included in existing EDU flow rate

Estimated residential Flow 275 gpd/edu

Table 2-22
Proposed Service Area Flow Projections

Proposed Sewer Service Area	Existing Residential Flow Projections		Future Residential Flow Projections		Existing Commercial Flow Projections		Future Commercial Flow Projections		Infiltration/Inflow		Total Flows		
	Total Units (units)	Estimated Flow (mgd)	Total Units (units)	Estimated Flow (mgd)	Total Units (units)	Estimated Flow (mgd)	Total Units (units)	Estimated Flow (mgd)	Existing (mgd)	Future (mgd)	Existing (mgd)	Future (mgd)	Design (mgd)
PSA - 1	23	0.004	0	0.000	1	0.0002	0	0.000	0.001	0.000	0.006	0.000	0.006
PSA - 2	37	0.007	1	0.000	1	0.0002	0	0.000	0.002	0.000	0.009	0.000	0.009
PSA - 3	177	0.033	26	0.005	11	0.0020	5	0.001	0.009	0.002	0.044	0.007	0.052
PSA - 4	39	0.007	6	0.001	0	0.0000	0	0.000	0.002	0.000	0.009	0.001	0.011
PSA - 5	42	0.008	40	0.007	1	0.0002	0	0.000	0.002	0.002	0.010	0.009	0.020
PSA - 6	90	0.017	10	0.002	6	0.0011	10	0.002	0.005	0.001	0.023	0.005	0.027
PSA - 7	128	0.024	20	0.004	1	0.0002	5	0.001	0.006	0.001	0.030	0.006	0.036
PSA - 8	57	0.011	15	0.003	0	0.0000	0	0.000	0.003	0.001	0.013	0.004	0.017
PSA - 9	110	0.020	10	0.002	4	0.0007	10	0.002	0.006	0.001	0.027	0.005	0.032
PSA - 10	18	0.003	10	0.002	1	0.0002	0	0.000	0.001	0.001	0.004	0.002	0.007
PSA - 11	79	0.015	10	0.002	15	0.0028	20	0.004	0.005	0.002	0.022	0.007	0.029
PSA - 12	52	0.010	10	0.002	1	0.0002	0	0.000	0.003	0.001	0.013	0.002	0.015
PSA - 13	21	0.004	10	0.002	0	0.0000	0	0.000	0.001	0.001	0.005	0.002	0.007
PSA-14	11	0.002	3	0.001	0	0.0000	0	0.000	0.001	0.000	0.003	0.001	0.003
Total	**884**	**0.164**	**171**	**0.032**	**42**	**0.008**	**50**	**0.009**	**0.046**	**0.011**	**0.216**	**0.051**	**0.267**

Estimated residential Flow	186
I/I flow	50

99-2

Table 2-23
Design Wastewater Flow Projections
Liebert Creek Drainage Basin

	Year 2003		Year 2008		Year 2013		Year 2018		Year 2023	
	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)
Residential [1]	1,253	0.076	1,316	0.080	1,380	0.084	1,444	0.087	1,507	0.091
Minor Commercial		0.004		0.004		0.005		0.006		0.007
Inflow/Infiltration		0.021		0.023		0.024		0.025		0.026
Total		**0.101**		**0.107**		**0.113**		**0.118**		**0.124**

1- Includes Saucon creek drainage basin area

Occupancy Rate 3.07 persons/unit

Table 2-24
Design Wastewater Flow Projections
Hosensack Creek Drainage Basin

	Year 2003		Year 2008		Year 2013		Year 2018		Year 2023	
	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)
Residential [1]	568	0.034	595	0.036	622	0.038	649	0.039	675	0.041
Minor Commercial		0.001		0.001		0.002		0.002		0.003
Inflow/Infiltration		0.010		0.010		0.011		0.011		0.012
Total		**0.045**		**0.047**		**0.050**		**0.053**		**0.055**

1- Includes Saucon creek drainage basin area

Occupancy Rate 3.07 persons/unit

Table 2-25
Design Wastewater Flow Projections
Existing Sewer Service Areas

	Year 2003		Year 2008		Year 2013		Year 2018		Year 2023	
	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)	Service Population	Flow (mgd)
Residential [1]	1,210	0.108	1,595	0.143	1,980	0.177	2,365	0.212	2,751	0.246
Minor Commercial		0.012		0.012		0.013		0.013		0.013
Major Industrial/ Commercial		0.016		0.016		0.016		0.016		0.016
Future Industrial/ Commercial		0.000		0.007		0.014		0.021		0.027
Total		**0.136**		**0.178**		**0.220**		**0.262**		**0.303**

1- Includes Saucon creek drainage basin area

Occupancy Rate 3.07 persons/unit