



**Lehigh County Authority**

1053 Spruce Road \* PO Box 3348 \* Allentown, PA 18106-0348  
(610)398-2503 \* FAX (610)398-8413

---

**LETTER OF TRANSMITTAL**

---

**Date:** 28 August 2002

**To:** Karl E Schreiter, Jr., PE  
7 Raleigh Drive  
Downingtown, PA 19335

**Subject:** Upper Milford Sewer System Information

<u>No. of Copies</u>	<u>Date</u>	<u>Description</u>
1 ea.	7/12/99	System Capacity Spread Sheets & Map

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> As Requested | <input type="checkbox"/> Approved                  |
| <input type="checkbox"/> For Your Information    | <input type="checkbox"/> Approved As Noted         |
| <input type="checkbox"/> For Your Comments       | <input type="checkbox"/> Revise And Resubmit       |
| <input type="checkbox"/> For Action By You       | <input checked="" type="checkbox"/> For Your Files |

As discussed, the enclosed was used to verify capacity in the LCA gravity system to for the Vera Cruz pump station proposed with the "LCA" Option of Schoor & DePalma's preliminary ACT 537 Study.

Please note that the enclosed data is provided as a courtesy. The Authority assumes no responsibility for any inaccuracies.

If you have any questions or require additional information, please call me at (610)398-2503.

Sincerely,

Frank Leist  
Capital Works Manager

enclosure.

7/12/99

**UPPER MILFORD SEWER SYSTEM**

**Main Area Segment Capacities / Current & Projected (1) Cumulative flows**

Seg #	From MH # (low)	To MH # (high)	Size Pipe	Linear Feet	Slope	Segment Capacity		Current / Projected Cumulative Peak Flow GPD	Net Result (surcharge) GPD
						GPD	CFS		
<b>Route 29</b>									
R-4	R-5		10	324	0.014	2,426,552	3.75		
R-5	R-6		10	98	0.013	2,338,284	3.62	721,520	1,705,032
R-6	R-21		8	207	0.010	1,131,095	1.75	721,520	1,616,764
R-21	R-22		8	333	0.009	1,073,051	1.66	515,895	615,200
R-22	R-23		8	330	0.010	1,131,095	1.75	515,895	557,156
R-23	R-24		8	242	0.031	1,991,498	3.08	510,645	620,450
R-24	R-25		8	348	0.024	1,752,284	2.71	510,645	1,480,853
R-25	R-26		8	342	0.011	1,186,302	1.84	425,700	1,326,584
R-26	R-27		8	173	0.007	946,342	1.46	425,700	760,602
R-27	R-28		8	301	0.011	1,186,302	1.84	425,700	520,642
R-28	RH-1		8	130	0.020	1,599,609	2.48	420,200	766,102
								417,200	1,182,409



<b>Ramer Heights</b>									
RH-1	RH-2		8	142	0.018	1,496,298	2.32	412,700	1,083,598
RH-2	RH-3		8	54	0.048	2,475,522	3.83	400,200	2,075,322
RH-3	RH-4		8	64	0.049	2,511,438	3.89	376,200	2,135,238
RH-4	RH-5		8	144	0.004	715,367	1.11	376,200	339,167
RH-5	RH-6		8	259	0.054	2,616,230	4.05	373,200	2,243,030
RH-6	RH-7		8	400	0.065	2,888,170	4.47	367,200	2,520,970
RH-7	RH-8		8	162	0.030	1,942,719	3.01	353,700	1,589,019
RH-8	RH-9		8	102	0.037	2,175,704	3.37	349,200	1,826,504
RH-9	RH-10		8	121	0.010	1,131,095	1.75	349,200	781,895
RH-10	SR-1		8	32	0.010	1,131,095	1.75	349,200	781,895

<b>Salem Ridge</b>									
SR-1	SR-2		8	86	0.017	1,492,016	2.31	349,200	1,142,816
SR-2	SR-4		8	432	0.008	1,005,339	1.56	314,700	690,639
SR-4	SR-5		8	156	0.025	1,802,668	2.79	290,700	1,511,968
SR-5	SR-6		8	106	0.015	1,362,018	2.11	274,200	1,087,818
SR-6	JS-1		8	320	0.034	2,085,636	3.23	268,200	1,817,436

<b>Vera Cruz</b>									
P. Station to	JS-1							259,200	
(proposed w/ Vera Cruz project LCA Option) forcemain									

(1) NOTE: Projected flows from Vera Cruz Pump Station Discharge Only

7/12/99

**UPPER MILFORD SEWER SYSTEM**

**Main Area Segments / Flows / Peaks**

Residential 300 gpd Non-Residential As noted gpd

Peaking Factor 6 x flow

Seg. #	From MH # (low)	To MH # (high)	From Within Segment				From Drainage Areas		Total Flow (gpd)	Peak Flow (gpd)	Comments
			Residential		Non-Residential		Area	flow (gpd)			
			# conn.	flow (gpd)	# conn.	flow (gpd)					

**Route 29**

R-4	R-5	-	-	-	-	-	-	-	-	-	
R-5	R-6	-	-	-	-	F & G	41,125	41,125	205,625		
R-6	R-21	-	-	-	-	-	-	-	-		
R-21	R-22	-	-	1	1,050	-	-	1,050	5,250	Beverage Body & Trailer	
R-22	R-23	-	-	-	-	-	-	-	-		
R-23	R-24	-	-	1	16,989	-	-	16,989	84,945	Hatfield @ MH-23	
R-24	R-25	-	-	-	-	-	-	-	-		
R-25	R-26	-	-	-	-	-	-	-	-		
R-26	R-27	-	-	-	-	E	1,100	1,100	5,500	Area "E": R27, R30 to R32	
R-27	R-28	2	600	-	-	-	-	600	3,000		
R-28	RH-1	1	300	-	-	D	600	900	4,500	Area "D": RH-1 to R-29 @ MHRH1	

**Ramer Heights**

RH-1	RH-2	-	-	1	2,500	-	-	2,500	12,500		
RH-2	RH-3	-	-	-	-	C	4,800	4,800	24,000	Area "C": Ramer & Charles Rd @ MH RH3	
RH-3	RH-4	-	-	-	-	-	-	-	-		
RH-4	RH-5	2	600	-	-	-	-	600	3,000		
RH-5	RH-6	4	1,200	-	-	-	-	1,200	6,000		
RH-6	RH-7	9	2,700	-	-	-	-	2,700	13,500		
RH-7	RH-8	3	900	-	-	-	-	900	4,500		
RH-8	RH-9	-	-	-	-	-	-	-	-		
RH-9	RH-10	-	-	-	-	-	-	-	-		
RH-10	SR-1	-	-	-	-	-	-	-	-		

**Salem Ridge**

SR-1	SR-2	2	600	-	-	A	6,300	6,900	34,500	Area "A": W. Minor St., Newport Dr. @ MH SR2	
SR-2	SR-4	16	4,800	-	-	-	-	4,800	24,000		
SR-4	SR-5	5	1,500	-	-	B	1,800	3,300	16,500	Area "B": Newport Dr. @ MH SR5	
SR-5	SR-6	4	1,200	-	-	-	-	1,200	6,000		
SR-6	JS-1	6	1,800	-	-	-	-	1,800	9,000		

**Vera Cruz**

P. Station JS-1	180 gpm	(180x1440, no peaking factor)	259,200	259,200
-----------------	---------	-------------------------------	---------	---------

<b>TOTALS</b>			<b>392,789</b>	<b>927,145</b>
---------------	--	--	----------------	----------------

7/14/99

UPPER MILFORD SEWER SYSTEMDrainage Areas

Residential 300.00 gpd Non-Residential As noted gpd

Seg. #	From MH # (low)	To MH # (high)	From Within Segment				Total Flow (gpd)
			Residential		Non-Residential		
			# conn.	flow (gpd)	# conn.	flow (gpd)	

AREA "A"

SR-2	SR-8	8	2,400	-	-	2,400
SR-8	SR-9	7	2,100	-	-	2,100
SR-8	SR-10	6	1,800	-	-	1,800
<b>Totals</b>		<b>22</b>	<b>6,300</b>	<b>-</b>	<b>-</b>	<b>6,300</b>

AREA "B"

SR-5	SR-7	6	1,800	-	-	1,800
<b>Totals</b>		<b>6</b>	<b>1,800</b>	<b>-</b>	<b>-</b>	<b>1,800</b>

AREA "C"

RH-3	RH-11	4	1,200	-	-	1,200
RH-11	RH-12	4	1,200	-	-	1,200
RH-12	RH-13	4	1,200	-	-	1,200
RH-13	RH-14	4	1,200	-	-	1,200
<b>Totals</b>		<b>16</b>	<b>4,800</b>	<b>-</b>	<b>-</b>	<b>4,800</b>

AREA "D"

RH-1	R-29	-	-	2	600	600
<b>Totals</b>		<b>-</b>	<b>-</b>	<b>2</b>	<b>600</b>	<b>600</b>

AREA "E"

R-27	R-30	-	-	-	-	-
R-30	R-31	-	-	1	300	300
R-31	R-32	-	-	2	800	800
<b>Totals</b>		<b>-</b>	<b>-</b>	<b>3</b>	<b>1,100</b>	<b>1,100</b>

**Summary of UMiT Commercial/Industrial Allocation**  
*Flowing into Rt. 29 System*

Acct #	First Name	Last Name	Company Name	(gpd) Allocation	Address	Manhole Run
<b><u>AREA "F"</u></b>						
343	Larry	Lafrenz	Rose Bowl (F)	725	4651 Colebrook	R10-R11
146	Pastor Doug	Hammett	LV Baptist Church	1,900	4702 Colebrook	R11-R12
?	Robert	Johnson	Old IGA	300	4501 Colebrook	R12-R15
180	Robert	Wellons	CR Friendly's	400	4002 Chestnut	R12-R15
151	James	Birdsall	Gun Shop	300	4045 Chestnut	R16-R17
433	Nancy	Birdsall	Walter's Monument (E)	300	4051 Chestnut	R16-R17
153	Joyce	Santos	Computer Store	300	4033 Chestnut	R16-R17
147	Julius	Iacocca	Yocco's	500	4042 Chestnut	R16-R17
148	Barry	Woodring	Woodring's Market	300	4054 Chestnut	R18-R19
149	Dan	Fulmer	Texaco Station	300	4094 Chestnut	R18-R19
141	George	Marmarus	Trivit Restaurant	3,000	2001 Chestnut	R19-R20
150	Raymond	Eisenhard	V&C Accessories	400	4095 Chestnut	R19-R20
<b><u>AREA "D"</u></b>						
?	Robert	Johnson	Vacant property	600	3974 Chestnut	RH1-R29
<b><u>AREA "E"</u></b>						
179	Les	Sell	Sell's Trucks	300	4393 Ramer	R30-R31
503			Splendor Industries (H)	500	4355 Ramer	R31-R32
203	Richard	Reppert	Reppert Drywall	300	4181 Ramer	R31-R32
<b><u>MAIN ROUTE</u></b>						
491	(former Atlantico)		Beverage Body & Trailer (G)	1,050	4701 Colebrook	R21-R22
334	Scott	Clemens	Hatfield Meats	16,989	4591 Colebrook	R22-R23 @R23
502	(former Fat Boys)		Curry Holdings (D)	2,500	3941 Chestnut	RH1-RH2
<b>Total</b>				<b>30,964</b>		