



PHASE II LONG TERM CONTROL PLAN

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Appendix A

Lawrence Street WPCF Large Pump Stations

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Appendix A
City of Lancaster
Phase II LTCP
Large Pump Stations

Table A1 - Large Pump Station Operation Summary

Pump Station	Pump Number	HP	Ground El	Wet Well El	Discharge Elevation	Pump Capacity	TDH	Set Point 1 On	Set Point 1 Off	Set Point 2 On	Set Point 2 Off
YMCA	4	20	816.5	790.17	804.5	1300	53	9	5		9.6
	3	35	816.5	790.17	804.5	2200	52	11	7		
	2	77	816.5	790.17	804.5	3500	70	7	5.5		
	1	77	816.5	790.17	804.5	3500	70	13	9		
S. Broad St	1	20	815	787.33	800.17	1000	40	7.8	4		
	2	20	815	787.33	800.17	1000	40	9.5	5		
	3	20	815	787.33	800.17	1000	40				
Wheeling	1	10	818	798.49	806.82	900	21	6.3	3.8		
	2	10	818	798.49	806.82	900	21	8.3	4.8		
	3	10	818	798.49	806.82	900	21				
East Main St	1	10	826.5	802	815	800	33	7	5		
	2	10	826.5	802	815	800	33	9	6		
	3	10	826.5	802	815	800	33				

YMCA has multitrode poles: 10 sensors, 2' apart.

Pump 4 is always lead during normal flow. Pump 3 = lag.

In the event that pump 2 (always selected, due to 1 always needing bled) comes on, 4 drops out, 3 becomes lead, 2 lag. When 3 off point is met, then 4 comes back in as lead.

S. Broad St. has twin pressure transducers

lead, lag pumps alternate due to running time. There is no set point for the third pump. It is only initiated by "hand."

Wheeling has a pressure transducer and a 10' multitrode pole as a backup.

lead, lag pumps alternate due to running time. There is no set point for the third pump.

E Main St has a bubbler system. It has not been calibrated since before 1995 (to my knowledge it has never been calibrated since installation).

lead, lag pumps alternate due to running time. There is no set point for the third pump.

Table A2 - Large Pump Stations Pumping Capacity

Location	Pumps Operating	Pump Capacities		
		Modeled Pumping	Actual Metered	Planned Future
YMCA Pump Station	1	1,300	540	-
	2	2,200	660	-
	1+2			-
	3/4	3,500		-
	2 + 3/4		3,060	-
S. Broad Street Pump Station	1	1,000	1,200	1,560
	1 + 2	0	2,200	2,880
	1 + 2 + 3	0	2,600	3,740
Wheeling Pump Station	1	900	1,020	-
	1 + 2	0	1,740	-
	1 + 2 + 3	0	3,060	-
E. Main Street Pump Station	1	800	800	-
	1 + 2	0	1,440	-
	1 + 2 + 3	0		-

