MAIDENCREEK TOWNSHIP AUTHORITY

Meeting on January 14, 2015

Engineer's Report

1. Sewer Treatment Plant

Systems Design Engineering is working with the General Manager on other projects as requested:

1. RAS/WAS Pump seals – ongoing with Pat D. on pump evaluations
2. Sludge dewatering system – Preliminary design reviewed with Pat D. After further evaluation, we have decided to combine the centrifuge test with Hamburg Municipal Authority's WWTP to be cost efficient.
3. Plant operations and the UV system.

2. Utility Water Project

The Utility Water Project bids were received on May 7, 2014.

The responsible low bid is:

Blooming Glenn Contractors
901 Minsi Trail
Blooming, PA 18911

Contracts A & B Combined - $91,366.50

Construction is complete and the system is operating. Final documentation is being completed for final payment.

3. Phosphorus Building Project

The Phosphorus Building Project bids were received and contracts are being compiled.

The responsible low bids are:

Advanced Rehabilitation Technology
Contracts A - $414,000

Eastern Environmental Constractors, Inc.
Contracts B - $38,380

4. **Well 6 Property**

Systems Design is proceeding with bid documents for the construction of Wells 6 and 7. SDE has also begun work on how to handle all the water that will be created from the drilling and drawdown tests.

5. **GIS Project**

Systems Design has continues to develop the GIS system with base plans and data.

Work accomplished this month is as follows:

- Populating information within the database for both water and sewer.
- Scanning historical data to link to the database.

- **Subdivision / Land Development Plans**

Bradley Subdivision
Systems Design Engineering, Inc. will present a review on this proposed subdivision.

PennDOT SR 222 Project
Systems Design is assisting with providing information to PennDOT on their proposed project and how is effects the Authority's water and sewer utilities.

- **Project Closeouts**

Melrose Place - The closeout letter presented in September was sent to the Developer. Punchlist items are progressing.

Villages at Summit Crest Phases I and II - Systems Design Engineering is supporting continuing efforts of the Solicitor on the project.

Esbenshades Greenhouse – An inspection is being scheduled to view the backflow devices installed.

Report written 1/14/15
I:\Projects\Old Projects\Greg's Computer\Documents\Maidencreek\Meetings\2015\150114.doc

MAIDENCREEK TOWNSHIP AUTHORITY

FIVE YEAR
FINANCIAL PLAN

2015 - 2019

MAIDENCREEK TOWNSHIP AUTHORITY
FIVE YEAR PROJECTIONS

			2015	2016	2017	2018	2019
Income:		**Total Beginning Balance**	**5,352,730**	**3,772,870**	**454,091**	**74,942**	**(188,573)**
		Rentals	**1,675,000**	**1,708,500**	**1,742,670**	**1,777,523**	**1,813,074**
		Income, Misc	108,985	111,165	113,388	115,656	117,969
		Total Operating Income	1,783,985	1,819,665	1,856,058	1,893,179	1,931,043
			5 EDUS	5 EDUS	5 EDUS	5 EDUS	5 EDUS
		New Laterals, Tapping Fees	26,310	26,310	26,310	26,310	26,310
		Total All Income	**1,810,295**	**1,845,975**	**1,882,368**	**1,919,489**	**1,957,353**
Expenses:							
4000	Salaries		367,222	378,239	389,586	401,273	413,312
4010	Utilities (20 % YR)		170,000	204,000	244,800	293,760	352,512
4015	Gas Vehicles		11,000	13,200	15,840	19,008	22,810
4020	Chemicals		95,000	97,850	100,786	103,809	106,923
4030	Insurance		70,000	72,100	74,263	76,491	78,786
4040	Maintenance & Repair		270,000	278,100	286,443	295,036	303,887
4043	I/I Program		20,000	20,600	21,218	21,855	22,510
4045	Sludge Removal		123,000	126,690	130,491	134,405	138,438
4050	Postage		9,500	9,785	10,079	10,381	10,692
4060	Office Expense		20,000	20,600	21,218	21,855	22,510
4080	Legal		30,000	30,900	31,827	32,782	33,765
4085	Lawsuits		-	-	-	-	-
4090	Engineering		50,000	51,500	53,045	54,636	56,275
4100	Miscellaneous		12,000	12,360	12,731	13,113	13,506
4105	Employee Mileage Expense		800	824	849	874	900
4110	Advertising		2,500	2,575	2,652	2,732	2,814
4130	Accounting Fees		9,600	9,888	10,185	10,490	10,805
4135	Software/Consulting		12,000	12,360	12,731	13,113	13,506
4141	SCADA		15,000	15,450	15,914	16,391	16,883
4150	Lab Fees		30,000	30,900	31,827	32,782	33,765
4160	Payroll Taxes		28,873	29,739	30,631	31,550	32,497
4180	Service Charge		500	515	530	546	563
4200	Employee Benefits (10 % YR)		76,060	83,666	92,033	101,236	111,359
4205	Pension Plan		40,000	41,200	42,436	43,709	45,020
4210	Communication Expense		15,000	15,450	15,914	16,391	16,883
4220	Uniforms		3,000	3,090	3,183	3,278	3,377
4260	Trash Removal		4,000	4,120	4,244	4,371	4,502
4270	Maintenance Agreements		20,000	20,600	21,218	21,855	22,510
4280	Office Rent		15,000	15,450	15,914	16,391	16,883
4291	Water Meter & Parts		10,000	10,300	10,609	10,927	11,255
4291	Remetering Expense		-	-	-	-	-
4300	Dues Subscriptions		6,100	6,283	6,471	6,666	6,866
4305	Seminars		4,100	4,223	4,350	4,480	4,615
4320	Donations		1,500	1,545	1,591	1,639	1,688
4390	Bad Check Expenses		-	-	-	-	-
4400	Eye and Dental		8,400	8,652	8,912	9,179	9,454
4330	Director's Fees		-	-	-	-	-
4380	Depreciation Expense		-	-	-	-	-
		Total Operating Expenses	**1,550,155**	**1,632,754**	**1,724,517**	**1,827,003**	**1,942,071**
		Operating Income Less Operating Expenses	*260,140*	*213,221*	*157,851*	*92,486*	*15,282*
		Less Capital Project	**1,840,000**	**3,532,000**	**537,000**	**356,000**	**205,000**
		Ending Fund Balance	**3,772,870**	**454,091**	**74,942**	**(188,572)**	**(378,291)**

MAIDENCREEK TOWNSHIP AUTHORITY

CONNECTION HISTORY

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	TOTALS
SEWER CUSTOMERS TOTAL # OF UNITS CONNECTED	1980	2091	2171	2268	2359	2428	2555	2799	3000	3070	**3067**	**3058**	**3106**	**3140**	**3208**	**3236**	
# OF UNITS ADDED PER YEAR		111	80	97	91	69	127	244	201	70	25	31	48	34	68	28	**1324**
% INCREASE PER YEAR		5.61%	3.83%	4.47%	4.01%	2.92%	5.23%	9.55%	7.18%	2.33%	0.81%	1.01%	1.57%	1.11%	2.19%	0.89%	**63.43%**
WATER CUSTOMERS TOTAL # OF UNITS CONNECTED	1672	1727	1807	1967	2059	2141	2233	2497	2606	2661	**2644**	**2624**	**2662**	**2688**	**2738**	**2746**	
# OF UNITS ADDED PER YEAR		55	80	160	92	82	92	264	109	55	25	31	38	26	50	8	**1167**
% INCREASE PER YEAR		3.29%	4.63%	8.85%	4.68%	3.98%	4.30%	11.82%	4.37%	2.11%	0.94%	1.17%	1.45%	0.99%	1.88%	0.30%	**64.23%**

NOTE: CHANGED BILLING METHOD IN 2008. THIS RESULTED IN A REDUCTION IN UNIT COUNT FOR COMMERICAL AND INDUSTRIAL USERS.

PERMIT AND CONNECTION STATUS

PROJECTIONS FOR ESTIMATING

FUTURE TAPPING FEES AND OPERATING REVENUE

2015

	OUTSTANDING PERMITS AS OF NOV 2014	2015 PROJECTIONS
APPROVED PLANS:		
MEADOWBROOK, ALL PHASES	0	
VILLAGES OF MAIDENCREEK	0	
MELROSE PLACE	26	2
MELROSE COMMERCIAL	4	1
CROSSING AT MAIDENCREEK, HILL ROAD	7	1
LARKEN SHOPPING CENTER	2	1
TOTAL	**47**	**5**
MTA PROJECTS WITH PLANS:		
VILLAGES OF SUMMIT CREST	88	0
TOTAL	**88**	**0**
ADDITIONS TO OPERATING REVENUE:		
OTMA	**134**	**8**

MAIDENCREEK TOWNSHIP AUTHORITY

2015

BUDGET

MAIDENCREEK TOWNSHIP AUTHORITY

BUDGET

FOR YEAR ENDING SEPTEMBER 30, 2015

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1. OPERATING BUDGET
2. CAPITAL PROJECT BUDGET
3. 5 YR CAPITAL PROJECT PROJECTIONS.

MAIDENCREEK TOWNSHIP AUTHORITY BUDGET

YEAR ENDING SEPTEMBER 30, 2015

Income:			
3000 3005 3007	Sewer Rentals		$1,070,000
3010 3012	Sewer Tap In Fees		$17,840
3015	Commercial Sewer Excess Use Fees		$0
3020 3050	Permit and Certification Fees Sewer		$2,575
3300 3305	Water Rentals		$657,500
3310	Water Tap In Fees		$8,470
3315	Commercial Water Excess Use Fees		$0
3320	Permit Fees Water		$75
3325 30 35 70	Water Meter Sales and Use Fees		$2,400
3100 10 20 30 75 80	Interest		$22,375
3040 3041	Miscellaneous		$2,750
	From Savings and CD's		$1,606,170
		Total Income	**$3,390,155**
Expenses:			
4000	Salaries		$367,222
4010	Utilities		$170,000
4015	Gas Vehicles		$11,000
4020	Chemicals		$95,000
4030	Insurance		$70,000
4040	Maintenance & Repairs		$270,000
4043	Infiltration/Inflow		$20,000
4045	Biosolids Removal		$123,000
4050	Postage		$9,500
4060	Office Expenses		$20,000
4080	Legal Expenses		$30,000
4090	Engineering Expenses		$50,000
4095	New Building Expense		$0
4100	Miscellaneous		$10,000
4103	Township Expenses		$2,000
4105	Employee Mileage Expense		$800
4110	Advertising		$2,500
4130	Accounting Fees		$9,600
4135	Software/Consulting		$12,000
4136	SCADA		$15,000
4150	Lab Fees		$30,000
4160	Payroll Taxes		$28,873
4180	Service Charges		$500
4200	Employee Benefits		$76,060
4205	Pension Plan		$40,000
4210	Communication Expense		$15,000
4220	Uniforms		$3,000
4260	Trash Removal		$4,000
4270	Maintenance Agreements		$20,000
4280	Office Rent		$15,000
4291	Water Meters & Parts		$10,000
4292	Remetering Expense		$100,000
4300	Dues Subscriptions		$6,100
4305	State Operator Traiining		$4,100
4310	Penalties & Fines		$0
4320	Donations		$1,500
4330	Director's Fees		$0
4390	Bad Check Expense		$0
4400	Eye & Dental		$8,400
	Capital Expenses		$1,740,000
		Total Expenses	**$3,390,155**
	Revenue Minus Expenses		($0)

MAIDENCREEK TOWNSHIP AUTHORITY

CAPITAL PROJECTS

FOR YEAR ENDING SEPTEMBER 30, 2015

		2014 YTD ACTUAL	2015 OPERATING FUNDS	2015 CERTIFICATE OF DEPOSITS
Capital Projects:				
C1566-1	New Equipment Sewer	$ 35,191		
C1566-2	New Equipment Water	$ 532		
C1567-3	New Equipment Combined	$ 1,243		
C1568-2	Purchase of Well # 6 Land and Beg. Improve.	$ 411,335		
C1617-1	CIP Sludge Processing Building	$ 12,468		
C1620-1	CIP Phosphorus Removal/Utility Water	$ 50,082	$ 69,500	$ 530,500
C1621-1	CIP Oxidation Ditch Rehab	$ 221,214		
C1622-2	CIP Well # 6	$ 64,493	$ 269,500	$ 530,500
C16??-1	GIS SYSTEM		$ 25,000	
5008.01	TV Inspections of Sewer Lines		$ 20,000	
5009.01	Tank Coating Maintenance		$ 20,000	
5010.01	Right of Way Clearing		$ 10,000	
5011.01	UV Bulb Replacement		$ 25,000	
5012.01	Install Flex Pro MXU		$ 100,000	
5013.01	Clean Water Tanks		$ 25,000	
5014.01	Water Valve Replacement		$ 25,000	
5015.01	Safety Equipment		$ 15,000	
5016.01	Replace Ras Pumps (2 Pumps)		$ 50,000	
5017.01	Well # 2 Block Wall Repair		$ 25,000	
5020.01	Township Road Repairs		$ 50,000	
5023.01	Stream Bank Improvements		$ 5,000	
5024.01	New Lab Equipment		$ 5,000	
5025.01	Computer Upgrades Well # 5		$ 5,000	
5026.01	New Vehicle		$ 35,000	
	Total Expenses	$ 796,559	$ 779,000	**$ 1,061,000**

MAIDENCREEK TOWNSHIP AUTHORITY FIVE YEAR PLAN FOR CAPITAL IMPROVEMENTS

ITEM	PROJECT	AMOUNT	STATUS	2015	2016	2017	2018	2019
1	**FERRIC/DEWATERING BUILDING PROJECT**	$ 1,500,000	BID 2015	$ 500,000	$ 1,000,000			
2	**PHOSPHORUS REMOVAL & UTILITY WATER SYSTEMS**	$ 100,000	BID	$ 100,000				
3	**REPLACE RAS PUMPS**	$ 50,000	BID	$ 50,000				
4	TV INSPECTING OF SEWER LINES	$ 100,000	OPERATING EXP	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000
5	TANK COATING MAINTENANCE	$ 100,000	BID	$ 20,000	$ 20,000	$ 20,000	$ 20,000	$ 20,000
6	RIGHT OF WAY CLEARING, TWP	$ 50,000	ANNUAL MAINT.	$ 10,000	$ 10,000	$ 10,000	$ 10,000	$ 10,000
7	STREAM BANK IMPROVEMENTS WWTP OUTFALL	$ 15,000	IN HOUSE PROJECT	$ 5,000	$ 5,000	$ 5,000		
8	UV BULBS AND CIRCUIT BOARDS	$ 50,000	OPERATING EXP	$ 25,000			$ 25,000	
9	**WELL # 2 BLOCK REPAIR**	$ 25,000	PROPOSALS	$ 25,000				
10	**WELL # 6 DEVELOPMENT**	$ 2,000,000	BID/PROPOSALS	$ 800,000	$ 1,200,000			
11	**INSTALL FLEX MXUS , EXTENDING OLD BLANDON**	$ 300,000	ONGOING	$ 100,000	$ 100,000	$ 100,000		
12	TRUCK MOUNTED VALVE EXERCISER	$ 25,000	NEW EQUIP.			$ 25,000		
13	CLEAN WATER TANKS	$ 25,000	OPERATING EXP	$ 25,000				
14	VALVE REPAIR AND REPLACEMENT	$ 75,000	OPERATING EXP	$ 25,000	$ 25,000	$ 25,000		
15	INSTALL 12" LINE IN IND. PARK	$ 150,000	ON HOLD					$ 150,000
16	TOWNSHIP ROAD REPAIRS	$ 100,000	TWP TO BIDFOR US	$ 50,000	$ 50,000			
17	**222 PROJECT**	$ 1,000,000	PLANNING STAGE		$ 1,000,000			
18	NEW OFFICE BUILDING	$ 400,000	PLANNING STAGE			$ 200,000	$ 200,000	
19	NEW COMPUTER SERVER, EQUIPMENT	$ 20,000	BUDGET REPLACE.	$ 5,000			$ 15,000	
20	NEW VEHICLE FOR OFFICE/MANAGER	$ 35,000	STATE CONTRACTS	$ 35,000				
21	SAFETY EQUIPMENT	$ 15,000	WHEN NEEDED	$ 15,000				
22	CONVERT MAPS TO A GIS SYSTEM	$ 75,000	APPROVED 2014	$ 25,000	$ 25,000	$ 25,000		
23	TRACTOR, BRUSHOG AND TRAILER	$ 50,000				$ 50,000		
24	POLE BUILDING	$ 40,000				$ 40,000		
25	WATER TANK MAINTENANCE PROGRAM	$ 60,000			$ 12,000	$ 12,000	$ 36,000	
26	NEW LAB EQUIPMENT	$ 25,000	OPERATING EXP	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000
27	SMALL SEWER TV CAMERA	$ 10,000			$ 10,000	$ -		
28	SMALL USED DUMP TRUCK W/ TOWING P.	$ 25,000					$ 25,000	
29	ABANDON INDUSTRIAL PARK WATER TANK PIT	$ 50,000			$ 50,000			
30	FLUSHING TRUCK, SMALL JET VAC	?						
	TOTALS	$ 6,470,000		$ 1,840,000	$ 3,532,000	$ 537,000	$ 356,000	$ 205,000
31	INCREASE INTERCEPTOR LINE SIZE	$ 3,500,000	PAID BY DEVELOPERS					

SEWER BILLING INFORMATION BY CUSTOMER TYPE

2014

	# OF ACCOUNTS	# OF UNITS	GALLONS	GALLONS PER DAY		AMOUNT BILLED
1ST QTR						
JAN 1, 2014 BILLING						
COMMERCIAL	125	179	3,582,000	**39,800**	$	20,873.00
INDUSTRIAL	9	9	584,110	**6,490**	$	3,126.55
MULTI-UNITS	18	54	402,000	**4,467**	$	3,274.00
RESIDENTIAL	2,765	2,921	30,248,000	**336,089**	$	231,169.12
SUMMIT M. PARK	58	58	379000	**4,211**	$	3,268.29
TOTAL	**2,975**	**3,221**	**35,195,110**	**391,057**	**$**	**261,710.96**
2ND QTR						
APR 1, 2014 BILLING						
COMMERCIAL	127	181	3,093,000	**34,367**	$	19,302.00
INDUSTRIAL	9	9	389,240	**4,325**	$	2,144.20
MULTI-UNITS	18	54	324,000	**3,600**	$	2,934.00
RESIDENTIAL	2,776	2,934	26,100,600	**290,007**	$	212,305.41
SUMMIT M. PARK	58	58	305000	**3,389**	$	2,982.00
TOTAL	**2,988**	**3,236**	**30,211,840**	**335,687**	**$**	**239,667.61**
3RD QTR						
JULY 1, 2014 BILLING						
COMMERCIAL	129	183	4,451,000	**49,456**	$	25,646.92
INDUSTRIAL	9	9	522,000	**5,800**	$	2,804.00
MULTI-UNITS	18	54	392,000	**4,356**	$	3,228.00
RESIDENTIAL	2,772	2,932	32,941,900	**366,021**	$	244,414.44
SUMMIT M. PARK	58	58	328,697	**3,652**	$	3,067.79
TOTAL	**2,986**	**3,236**	**38,635,597**	**429,284**	**$**	**279,161.15**
4TH QTR						
OCT 1, 2014 BILLING						
COMMERCIAL	128	182	3,217,000	**35,744**	$	20,300.21
INDUSTRIAL	9	9	429,670	**4,774**	$	2,352.35
MULTI-UNITS	18	54	405,000	**4,500**	$	3,280.00
RESIDENTIAL	2,769	2,933	32,864,000	**365,156**	$	233,645.49
SUMMIT M. PARK	58	58	425,000	**4,722**	$	3,503.00
TOTAL	**2,982**	**3,236**	**37,340,670**	**414,896**	**$**	**263,081.05**
YEAR END TOTALS						
COMMERCIAL	128	182	14,343,000	**39,296**	$	86,122.13
INDUSTRIAL	9	9	1,925,020	**5,274**	$	10,427.10
MULTI-UNITS	18	54	1,523,000	**4,173**	$	12,716.00
RESIDENTIAL	2,769	2,933	122,154,500	**334,670**	$	921,534.46
SUMMIT M. PARK	58	58	1,437,697	**3,939**	$	12,821.08
2014 TOTAL	**2,982**	**3,236**	**141,383,217**	**387,351**	**$**	**1,043,620.77**
2013 YEAR END	2,972	3,208	144,794,870	396,698	$	1,063,524.52
GROSS ANNUAL CHANGE	**10**	**28**	**-3,411,653**	**-9,347**	**$**	**(19,903.75)**
% CHANGE	**0.34%**	**0.87%**	**-2.36%**	**-2.36%**		**-1.87%**

WATER BILLING INFORMATION BY CUSTOMER TYPE

2014

	# OF ACCOUNTS	# OF UNITS	GALLONS	GALLONS PER DAY		AMOUNT BILLED
1ST QTR						
JAN 1, 2014 BILLING						
COMMERCIAL	90	96	2,940,800	**32,676**	$	13,179.20
INDUSTRIAL	9	9	588,110	**6,535**	$	2,788.44
MULTI-UNITS	16	51	378,000	**4,200**	$	2,195.00
RESIDENTIAL	2,585	2,586	30,002,000	**333,356**	$	140,744.14
TOTAL	**2,700**	**2,742**	**33,908,910**	**376,766**	**$**	**158,906.78**
2ND QTR						
APR 1, 2014 BILLING						
COMMERCIAL	91	97	2,353,700	**26,152**	$	11,511.80
INDUSTRIAL	9	9	390,240	**4,336**	$	1,982.96
MULTI-UNITS	16	51	310,000	**3,444**	$	2,011.00
RESIDENTIAL	2,598	2,599	25,924,600	**288,051**	$	127,329.37
TOTAL	**2,714**	**2,756**	**28,978,540**	**321,984**	**$**	**142,835.13**
3RD						
JULY 1, 2014 BILLING						
COMMERCIAL	94	100	3,734,002	**41,489**	$	16,710.56
INDUSTRIAL	9	9	512,000	**5,689**	$	2,476.00
MULTI-UNITS	16	51	372,000	**4,133**	$	2,179.00
RESIDENTIAL	2,591	2,592	32,654,900	**362,832**	$	150,286.52
TOTAL	**2,710**	**2,752**	**37,272,902**	**414,143**	**$**	**171,652.08**
4TH						
OCT 1, 2014 BILLING						
COMMERCIAL	93	99	3,317,301	**36,859**	$	15,644.20
INDUSTRIAL	9	9	429,670	**4,774**	$	2,152.68
MULTI-UNITS	16	51	390,000	**4,333**	$	2,215.00
RESIDENTIAL	2,587	2,587	32,677,000	**363,078**	$	142,631.07
TOTAL	**2,705**	**2,746**	**36,813,971**	**409,044**	**$**	**162,642.95**
YEAR END TOTALS						
COMMERCIAL	93	99	12,345,803	33,824	$	33,282.36
INDUSTRIAL	9	9	1,920,020	5,260	$	9,400.08
MULTI-UNITS	16	51	1,450,000	3,973	$	8,600.00
RESIDENTIAL	2,587	2,587	121,258,500	332,215	$	560,991.10
2014 TOTAL	**2,705**	**2,746**	**136,974,323**	**375,272**	**$**	**612,273.54**
2013 YEAR END	2,697	2,738	140,576,670	385,142	$	634,362.36
GROSS ANNUAL CHANGE	**8**	**8**	**-3,602,347**	**-9,870**	**$**	**(22,088.82)**
% CHANGE	**0.30%**	**0.29%**	**-2.56%**	**-2.56%**		**-3.48%**