

Appendix G - WWT Asset Renewal Program
Spending Detail

Asset Renewal 2014

Year	Name	Location	PO Amount	failure/planned
2014	2014-10A MuC Effluent Pump 3 Repair.pdf	Muddy Creek	\$ 10,438.00	failure
2014	2014-10B MC CMF Stores Dock Leveler Upgrade.pdf	Mill Creek	\$ 6,149.00	failure
2014	2014-12C Critically Silenced Pump.pdf	Pump Stations	\$ 55,000.00	planned
2014	2014-12D Springleaf PS Submersible Pump Replacement.pdf	Pump Stations	\$ 19,391.00	failure
2014	2014-12E MC Sludge Pump Building Crane Replacement.pdf	Mill Creek	\$ 7,830.00	failure
2014	2014-12F TC PS Pump Replacement.pdf	Taylor Creek	\$ 30,000.00	failure
2014	2014-12G Pebble Creek Pump Replacement.pdf	Pump Stations	\$ 17,700.00	failure
2014	2014-12H Locust View Pump Replacement.pdf	Pump Stations	\$ 23,800.00	failure
2014	2014-12I Kleeman Green Pump Replacement.pdf	Pump Stations	\$ 22,385.00	failure
2014	2014-12K PR OTT Diffuser Mini BCE.pdf	Polk Run	\$ 115,000.00	planned
2014	2014-12L MC Power Factor Correction Mini BCE.pdf	Mill Creek	\$ 400,000.00	planned
2014	2014-12M PR Generator Replacement Mini BCE.pdf	Polk Run	\$ 260,000.00	failure
2014	2014-12N Wastewater Treatment Safety Upgrades Mini BCE.pdf	Multiple	\$ 150,000.00	failure
2014	2014-12O MC Odowatch Mini BCE.pdf	Mill Creek	\$ 250,000.00	planned
2014	2014-12P MC Primary Settling Tank Limit Switch and Conduit Upgrade Mini BCE.pdf	Mill Creek	\$ 225,000.00	planned
2014	2014-12Q MC Bar Screen Elevator Upgrade.pdf	Mill Creek	\$ 20,000.00	failure
2014	2014-1A TC RSP1.pdf	Taylor Creek	\$ 25,724.00	failure
2014	2014-1B MuC Effluent Gate Repair.pdf	Muddy Creek	\$ 33,806.25	failure
2014	2014-1C LM Incinerator Refractory Repair.pdf	Little Miami	\$ 30,000.00	planned
2014	2014-2A TC Aeration Tank 1 Bridge Repair.pdf	Taylor Creek	\$ 23,163.00	failure
2014	2014-2B MC Potable Water Line Repair.pdf	Mill Creek	\$ 12,574.00	failure
2014	2014-2D SSO700 Backflow Preventer Repair.pdf	Other	\$ 18,978.00	failure
2014	2014-2F MC Incinerator 1 Quencher Repair.pdf	Mill Creek	\$ 1,454.56	failure
2014	2014-2G Incinerator 2 and 3 Heat Exchanger Repair.pdf	Mill Creek	\$ 76,000.00	failure
2014	2014-2H LM RTC Gate Repair.pdf	Little Miami	\$ 20,778.54	failure
2014	2014-2I MC Incinerator 3 Expansion Joint Installation.pdf	Mill Creek	\$ 85,000.00	failure
2014	2014-2J MC Storm Drain Reroute.pdf	Mill Creek	\$ 70,000.00	planned
2014	2014-2K MC Dewatering Centrifuge Backdrive VFD Repair.pdf	Mill Creek	\$ 20,803.00	failure
2014	2014-3B MC Centrate Line Repair and Modification.pdf	Mill Creek	\$ 25,000.00	failure
2014	2014-6A MC Bar Screen 2 Top Mounting Repair.pdf	Mill Creek	\$ 40,000.00	failure
2014	2014-6B Britney Acres PS Repair.pdf	Pump Stations	\$ 20,749.00	failure
2014	2014-7A LM Incinerator Repair.pdf	Little Miami	\$ 165,600.00	failure
2014	2014-8A MC RAS Header Leak Repair.pdf	Mill Creek	\$ 10,000.00	failure
2014	2014-8B Muddy Creek PS Influent Gate Repair.pdf	Pump Stations	\$ 5,547.33	failure
2014	2014-8C MC Potable Water Line Valving Replacement.pdf	Mill Creek	\$ 9,895.00	failure
2014	2014-9A MC RAS Tunnel Ceiling Concrete Repair.pdf	Mill Creek	\$ 14,507.00	failure
Total:			\$ 2,322,272.68	

Assumptions:
Planned work was expected a year in advance
Purchase of spare equipment is considered "planned"
Upgrades of plant processes where no failure currently exists are considered "planned"

Project Category	Money Spent	Percentage of Total Money Spent
Pump Replacement/Refurbishment	\$ 204,438.00	9%
Centrifuge Rotating Assembly Refurbishment	\$ -	0%
HVAC System Replacements and Upgrades	\$ -	0%
Electrical Equipment Replacement and Upgrades	\$ 645,803.00	28%
Generator Replacements	\$ 260,000.00	11%
Instrumentation Replacements and Upgrades	\$ -	0%
Gate and Actuator Replacements/Refurbishments	\$ 60,132.12	3%
Process Area Safety and Security Enhancements	\$ 289,235.00	12%
Raw Sewage Pump Refurbishment (Mill Creek)	\$ -	0%
Other Process Equipment Replacements/Upgrades	\$ 862,664.56	37%

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Year	Name	Location	PO Amount	failure/plann
2015	2015-12A MC DIW Chiller Repiping Upgrade.pdf	Little Miami	\$ 24,900.00	failure
2015	2015-1A MC Incinerator 2 Expansion Joint Installation.pdf	Mill Creek	\$ 23,452.50	planned
2015	2015-3A MC Incinerator 1 Expansion Joint Installation.pdf	Mill Creek	\$ 24,900.00	planned
2015	2015-3B MC Incinerator 2 Primary Heat Exchanger Upgrade.pdf	Mill Creek	\$ 22,250.00	failure
2015	2015-6B Stratford Lake PS Concrete Rehabilitation.pdf	Pump Stations	\$ 13,838.00	failure
2015	2015-7A MC Grit Sump Pump Upgrades.pdf	Mill Creek	\$ 17,550.00	failure
2015	2015-7B Syc Tertiary Pump Propeller Upgrade.pdf	Sycamore	\$ 17,700.00	failure
2015	2015-7C LM Four Mile PS Fire Suppression Upgrade.pdf	Little Miami	\$ 8,446.36	failure
2015	2015-8A LM Hydroxide Odor Pump.pdf	Little Miami	\$ 21,887.00	failure
2015	2015-8B LM Hypochlorite Odor Pumps.pdf	Little Miami	\$ 24,909.00	failure
2015	2015-8C Eastern Avenue PS Pump Replacement.pdf	Pump Stations	\$ 13,318.00	failure
2015	2015-8D LM Secondary Lighting Upgrade.pdf	Little Miami	\$ 23,494.94	planned
2015	2015-9C MuC Equipment Access Hatch Replacement.pdf	Muddy Creek	\$ 8,800.00	failure
2015	2015-9D Syc Raw Sewage Pump 3 Refurbishment.pdf	Sycamore	\$ 12,000.00	failure
2015	2015-9E MuC Levee Access Stairway Installation.pdf	Muddy Creek	\$ 15,900.00	planned
Total:			\$ 273,345.80	

Assumptions:

- Planned work was expected a year in advance
- Purchase of spare equipment is considered "planned"
- Upgrades of plant processes where no failure currently exists are considered "planned"

Project Category	Money Spent	Percentage of Total Money Spent
Pump Replacement/Refurbishment	\$ 107,364.00	39%
Centrifuge Rotating Assembly Refurbishment	\$ -	0%
HVAC System Replacements and Upgrades	\$ 24,900.00	9%
Electrical Equipment Replacement and Upgrades	\$ -	0%
Generator Replacements	\$ -	0%
Instrumentation Replacements and Upgrades	\$ -	0%
Gate and Actuator Replacements/Refurbishments	\$ -	0%
Process Area Safety and Security Enhancements	\$ 70,479.30	26%
Raw Sewage Pump Refurbishment (Mill Creek)	\$ -	0%
Other Process Equipment Replacements/Upgrades	\$ 70,602.50	26%

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Asset Renewal 2016

Year	Name	Location	Budget Estimate	failure/planned
2016	10280186 2016-7C MC East-West Tunnel valve Access Upgrade.pdf	Mill Creek	\$ 17,850.00	planned
2016	10280186 2016-4F Mill Creek Electrical Building – Redundant Cooling System.pdf	Mill Creek	\$ 150,000.00	failure
2016	10280186 2016-1A Wesselman PS Raw Sewage Pump.pdf	Pump Stations	\$ 12,208.00	failure
2016	10280186 2016-1B MC Dewatering Centrifuge Rotating Assembly.pdf	Mill Creek	\$ 300,000.00	failure
2016	10280186 2016-1C LM Four Mile PS Power Switchgear Contactor.pdf	Little Miami	\$ 16,251.00	failure
2016	10280186 2016-1D LM Influent Auto Sampler.pdf	Little Miami	\$ 6,114.58	failure
2016	10280186 2016-1E MC NPW Pumps.pdf	Mill Creek	\$ 91,452.00	failure
2016	10280186 2016-2A MC Dewatering Odor Control Chemical Feed Pumps.pdf	Mill Creek	\$ 8,564.98	failure
2016	10280186 2016-2B Miamitown PS Pumps Purchase.pdf	Pump Stations	\$ 22,446.00	failure
2016	10280186 2016-2C TC Influent Flow Meter.pdf	Taylor Creek	\$ 13,162.00	failure
2016	10280186 2016-3A Colerain Bevis PS Submersible Pump.pdf	Pump Stations	\$ 37,200.00	failure
2016	10280186 2016-3B MC Spare Grit Pump.pdf	Mill Creek	\$ 17,808.40	planned
2016	10280186 2016-3C MC Sodium Hypochlorite Containment Piping Installation.pdf	Mill Creek	\$ 22,655.50	planned
2016	10280186 2016-3E Muddy Creek Pump Station Generator Replacement.pdf	Pump Stations	\$ 42,436.00	failure
2016	10280186 2016-4A Muddy Creek PS Raw Sewage Pump Base Replacement.pdf	Pump Stations	\$ 24,964.00	failure
2016	10280186 2016-4B LM Primary Settling Tank 2 Skim Trough Actuator Replacement.pdf	Little Miami	\$ 6,025.00	failure
2016	10280186 2016-4C LM Grit Tank Influent Gate Actuator Replacements.pdf	Little Miami	\$ 18,945.00	failure
2016	10280186 2016-4D LM Primary Skim Pump 2 Replacement.pdf	Little Miami	\$ 6,400.00	failure
2016	10280186 2016-4E MC Dewatering Odor Control Reverse Osmosis Filtration System Purchase.pdf	Mill Creek	\$ 21,000.00	failure
2016	10280186 2016-6B Addyston PS Spare Pump.pdf	Pump Stations	\$ 15,668.00	planned
2016	10280186 2016-6C Bahama Gardens PS Spare Pump.pdf	Pump Stations	\$ 16,812.00	planned
2016	10280186 2016-6D Carpenter's Run PS Spare Pump.pdf	Pump Stations	\$ 14,877.00	planned
2016	10280186 2016-6E Gil Volz PS Spare Pump.pdf	Pump Stations	\$ 15,886.00	planned
2016	10280186 2016-6F Glenview PS Spare Pump.pdf	Pump Stations	\$ 17,425.00	planned
2016	10280186 2016-6G Kemper Mill Village PS Spare Pump.pdf	Pump Stations	\$ 15,128.00	planned
2016	10280186 2016-6H Timbers PS Spare Pump.pdf	Pump Stations	\$ 14,137.00	planned
2016	10280186 2016-6I MC SRS Trench Drain.pdf	Mill Creek	\$ 24,625.25	planned
Total:			\$ 970,040.71	

Assumptions:
"Planned" projects were expected a year in advance
Purchase of spare equipment is considered "planned"
Upgrades of plant processes where no failure currently exists are considered "planned"

Project Category	Money Spent	Percentage of Total Money Spent
Pump Replacement/Refurbishment	\$ 330,976.38	34%
Centrifuge Rotating Assembly Refurbishment	\$ 300,000.00	31%
HVAC System Replacements and Upgrades	\$ 150,000.00	15%
Electrical Equipment Replacement and Upgrades	\$ 16,251.00	2%
Generator Replacements	\$ 42,436.00	4%
Instrumentation Replacements and Upgrades	\$ 19,276.58	2%
Gate and Actuator Replacements/Refurbishments	\$ 24,970.00	3%
Process Area Safety and Security Enhancements	\$ 65,130.75	7%
Raw Sewage Pump Refurbishment (Mill Creek)	\$ -	0%
Other Process Equipment Replacements/Upgrades	\$ 21,000.00	2%

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OTEA 2014

Name	Location	PO Amount	planned/failure
OTEA 2014-10A SSO 700 RSP 2 Repair.pdf	Other	\$ 7,486.00	failure
OTEA 2014-10B Springleaf PS Pump Replacement.pdf	Pump Stations	\$ 44,260.00	failure
OTEA 2014-2A IC Aeration Blower 1 Replacement.pdf	Indian Creek	\$ 23,726.00	failure
OTEA 2014-3A LM Schwing Poppet Pressure Valve Housing Replacement.pdf	Little Miami	\$ 11,758.00	failure
OTEA 2014-4A Syc Tertiary Disk Filter Parts.pdf	Sycamore	\$ 148,410.00	failure
OTEA 2014-4B MuC Primary Sludge Pump 1 Replacement.pdf	Muddy Creek	\$ 11,979.00	failure
OTEA 2014-5A Pump Station Spare Channel Monster Purchase.pdf	Pump Stations	\$ 44,731.00	planned
OTEA 2014-5B IC Influent Pump 1 Replacement.pdf	Indian Creek	\$ 17,410.20	failure
OTEA 2014-5C MC Headworks and Primary Odor Control Water Softener Replacement.pdf	Mill Creek	\$ 9,386.74	failure
OTEA 2014-5D MC NPW Pump Parts.pdf	Mill Creek	\$ 139,292.00	failure
OTEA 2014-6A Syc Instrumentation Upgrade.pdf	Sycamore	\$ 65,218.83	failure
OTEA 2014-6B MuC Backup Disinfection Chemical Induction Mixer Replacement.pdf	Muddy Creek	\$ 13,250.00	failure
OTEA 2014-6C MC Jerome H2S Meter Purchase.pdf	Mill Creek	\$ 33,594.00	planned
OTEA 2014-6D Miamitown PS Channel Monster Replacement.pdf	Pump Stations	\$ 21,270.00	failure
OTEA 2014-6E IC RAS Submersible Pump Replacement.pdf	Indian Creek	\$ 14,645.00	failure
OTEA 2014-6F MuC Effluent Pump 2 Repair.pdf	Muddy Creek	\$ 10,229.44	failure
OTEA 2014-7A Muddy Creek and Westbourne HRTU Dewatering Pump Repair.pdf	Other	\$ 13,700.00	failure
OTEA 2014-7B MC Primary Skimmings Wetwell Level Sensor.pdf	Mill Creek	\$ 6,400.00	failure
OTEA 2014-7B MuC Grit Escalator Gearmotor Replacement.pdf	Muddy Creek	\$ 11,948.57	failure
OTEA 2014-7C MC Grit Drain Pump Motor Replacement.pdf	Mill Creek	\$ 6,460.00	failure
OTEA 2014-7D MuC PS Generator Fuel Tank Replacement.pdf	Mill Creek	\$ 16,068.67	failure
OTEA 2014-7E Taylor Creek PS Raw Sewage Pump 2 Replacement.pdf	Mill Creek	\$ 27,669.00	failure
OTEA 2014-8A Syc Aeration Tank 1 Mixer Replacement.pdf	Sycamore	\$ 21,000.00	failure
OTEA 2014-8B MC Schwing Gearbox Replacement.pdf	Mill Creek	\$ 28,759.80	failure
OTEA 2014-8C MC Centrifuge Rotating Assembly Repair.pdf	Mill Creek	\$ 53,443.81	failure
OTEA 2014-8D IC Grit Pump and Drop Leg Replacement.pdf	Mill Creek	\$ 6,398.00	failure
OTEA 2014-8E MC 7W South RAS Pump Check Valve Replacement.pdf	Mill Creek	\$ 13,176.48	failure
OTEA 2014-8F Muddy Creek and Westbourne HRTU Effluent Sampler Replacement.pdf	Other	\$ 5,588.85	failure
OTEA 2014-8G SSO 700 Influent Flow Meter Replacement.pdf	Mill Creek	\$ 20,514.00	failure
OTEA 2014-8H MC Ash Slurry Pump 3A VFD Replacement.pdf	Mill Creek	\$ 8,336.16	failure
OTEA 2014-9A Syc RSP 3 Repair.pdf	Sycamore	\$ 10,940.00	failure
OTEA 2014-9B MC Muffin Monster Replacement.pdf	Mill Creek	\$ 44,615.00	failure
OTEA 2014-9C LM Secondary Thickening HVAC VFD Replacement.pdf	Little Miami	\$ 7,486.00	failure
OTEA 2014-9D MC NPW Pump Casing Replacement.pdf	Mill Creek	\$ 37,602.00	failure
OTEA 2014-9E LM Ash Slurry Pump Replacement.pdf	Mill Creek	\$ 19,809.00	failure
OTEA 2014-9G LM Chemical Storage and Secondary HVAC.pdf	Little Miami	\$ 27,480.00	failure
OTEA 2014-9H Dry Run PS Spare Pump.pdf	Pump Stations	\$ 54,353.00	planned
OTEA 2014-9I Hunterton PS Generator Replacement.pdf	Pump Stations	\$ 63,190.00	failure
OTEA 2014-9J MC Incinerator 1 and 2 Expansion Joint Replacement.pdf	Mill Creek	\$ 145,000.00	planned
OTEA 2014-9K MC ASP 2A VFD Repair.pdf	Mill Creek	\$ 8,336.16	failure
OTEA 2014-9L SSO 700 Flow Meter Spool Piece.pdf	Other	\$ 7,400.00	failure
OTEA 2014-9M MC Propane Air and Air Mixer Repair.pdf	Mill Creek	\$ 32,107.00	failure
Total:		\$ 1,314,427.71	

Assumptions:
"Planned" projects were expected a year in advance
Purchase of spare equipment is considered "planned"
Upgrades of plant processes where no failure currently exists are considered "planned"

Project Category	Money Spent	Percentage of Total Money Spent
Pump Replacement/Refurbishment	\$ 422,232.64	32%
Centrifuge Rotating Assembly Refurbishment	\$ 53,443.81	4%
HVAC System Replacements and Upgrades	\$ 27,480.00	2%
Electrical Equipment Replacement and Upgrades	\$ 24,158.32	2%
Generator Replacements	\$ 79,258.67	6%
Instrumentation Replacements and Upgrades	\$ 138,715.68	11%
Gate and Actuator Replacements/Refurbishments	\$ -	0%
Process Area Safety and Security Enhancements	\$ -	0%
Raw Sewage Pump Refurbishment (Mill Creek)	\$ -	0%
Other Process Equipment Replacements/Upgrades	\$ 569,138.59	43%

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OTEA 2015

Name	Location	PO Amount	Failure/pla
OTEA 2015-8D LM Four Primary Sludge Pumps.pdf	Little Miami	\$ 53,136.00	failure
OTEA 2014-9A Syc RSP 3 Repair - 2015 Expenditure.msg	Mill Creek	\$ 2,325.00	failure
OTEA 2015-10A MC WAS West Wetwell Actuator Replacement.pdf	Mill Creek	\$ 6,385.00	failure
OTEA 2015-10B MC Hypo Chemical Induction Mixer Replacement.pdf	Mill Creek	\$ 34,500.00	failure
OTEA 2015-11C MC DIW Chiller Purchase.pdf	Mill Creek	\$ 143,879.00	failure
OTEA 2015-11D MC Odor Monitoring Equipment Replacement.pdf	Mill Creek	\$ 44,428.00	failure
OTEA 2015-11E Syc Disk Filter Panels.pdf	Sycamore	\$ 92,220.00	failure
OTEA 2015-12A Bruestles PS Spare Pump Purchase.pdf	Pump Stations	\$ 30,195.00	planned
OTEA 2015-12C MC Machine Shop Lathe Purchase.pdf	Mill Creek	\$ 65,689.00	failure
OTEA 2015-12G Outlying Plants Machine Guarding and Safety Equipment.pdf	Multiple	\$ 200,000.00	failure
OTEA 2015-12H MC Paint Storage Trailer Purchase.pdf	Mill Creek	\$ 51,323.00	planned
OTEA 2015-12I PR WAS Thickened Sludge Pump Purchase.pdf	Polk Run	\$ 16,339.36	failure
OTEA 2015-1A Pleasant Run East PS RSP3 Soft Start Replacement.pdf	Pump Stations	\$ 6,889.00	failure
OTEA 2015-1B Primary Thickening Grinder Gear Assembly Replacement.pdf	Mill Creek	\$ 7,368.00	failure
OTEA 2015-1E Cleves PS Grinder Replacement.pdf	Pump Stations	\$ 21,856.00	failure
OTEA 2015-1F Pump Replacement Legendary Ridge.pdf	Pump Stations	\$ 6,365.00	failure
OTEA 2015-2A Barrington Hills Spare Pump Purchase.pdf	Pump Stations	\$ 7,205.00	planned
OTEA 2015-2C Spring Leaf Spare Pump.pdf	Pump Stations	\$ 20,998.00	planned
OTEA 2015-2D Stanberry Park Spare Pump.pdf	Pump Stations	\$ 19,451.40	planned
OTEA 2015-3B MC Digester Drain Pump Check Valve Replacement.pdf	Mill Creek	\$ 5,397.19	failure
OTEA 2015-3C Cleves PS RSP4 Replacement.pdf	Pump Stations	\$ 16,000.00	failure
OTEA 2015-3D MuC Concentrated Sludge Pump 2 Replacement.pdf	Muddy Creek	\$ 17,268.00	failure
OTEA 2015-3E Anderson Ferry PS Motor 2 Replacement.pdf	Pump Stations	\$ 6,252.00	failure
OTEA 2015-4B MC Temperature Well Calibrator Replacement.pdf	Mill Creek	\$ 9,349.00	failure
OTEA 2015-4C MC WAS Inlet Control Valve Replacement.pdf	Mill Creek	\$ 12,750.00	failure
OTEA 2015-4D Cleves PS RSP2 Replacement.pdf	Pump Stations	\$ 16,000.00	failure
OTEA 2015-5A LMTP Crossover Gate Actuator Replacement.pdf	Little Miami	\$ 7,485.00	failure
OTEA 2015-6A MC Centrifuge Rotating Assembly Refurbishment.pdf	Mill Creek	\$ 103,060.05	failure
OTEA 2015-6B MC Odor Control Equipment.pdf	Mill Creek	\$ 25,500.00	planned
OTEA 2015-6C Camargo Canyon PS Spare Pumps.pdf	Pump Stations	\$ 11,895.00	planned
OTEA 2015-6E Weller Woods PS Spare Pumps.pdf	Pump Stations	\$ 14,812.00	planned
OTEA 2015-8B MuC Portable Flow Meter Purchase.pdf	Mill Creek	\$ 8,951.96	failure
OTEA 2015-9A MC Remote Breaker Racking System Purchase.pdf	Mill Creek	\$ 39,807.00	failure
OTEA 2015-9B LM Service Water Pump 3 VFD Panel.pdf	Little Miami	\$ 19,099.00	failure
OTEA 2015-9C MC ICE MACHINE.pdf	Mill Creek	\$ 5,286.05	planned
	Total:	\$ 1,149,464.01	

Assumptions:
"Planned" projects were expected a year in advance
Purchase of spare equipment is considered "planned"
Upgrades of plant processes where no failure currently exists are considered "planned"

Project Category	Money Spent	Percentage of Total Money Spent
Pump Replacement/Refurbishment	\$ 231,989.76	20%
Centrifuge Rotating Assembly Refurbishment	\$ 103,060.05	9%
HVAC System Replacements and Upgrades	\$ 143,879.00	13%
Electrical Equipment Replacement and Upgrades	\$ 32,240.00	3%
Generator Replacements	\$ -	0%
Instrumentation Replacements and Upgrades	\$ 18,300.96	2%
Gate and Actuator Replacements/Refurbishments	\$ 13,870.00	1%
Process Area Safety and Security Enhancements	\$ 296,416.05	26%
Raw Sewage Pump Refurbishment (Mill Creek)	\$ -	0%
Other Process Equipment Replacements/Upgrades	\$ 309,708.19	27%

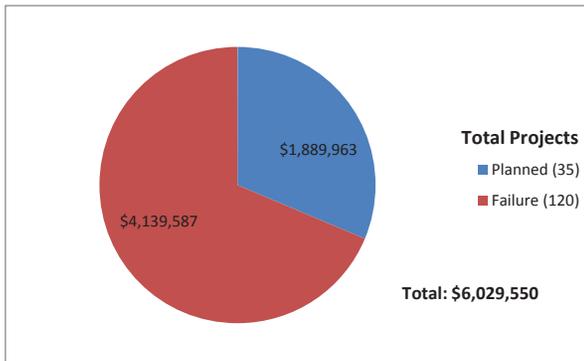
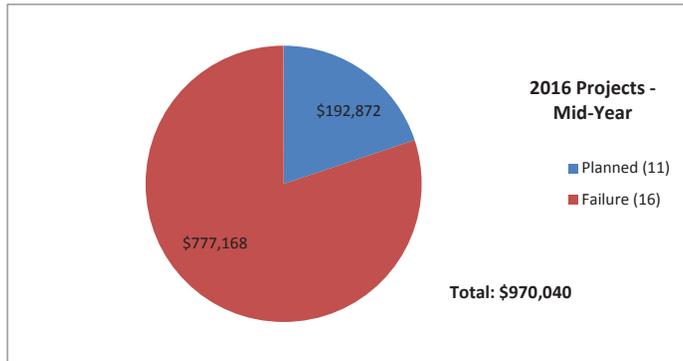
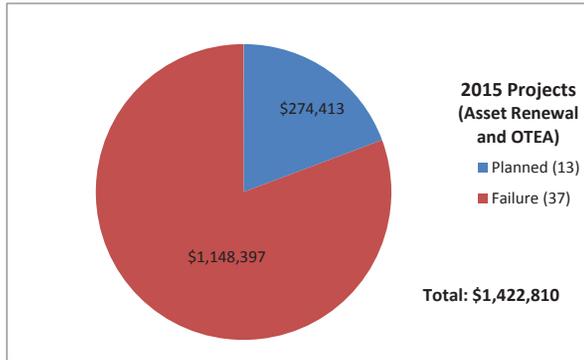
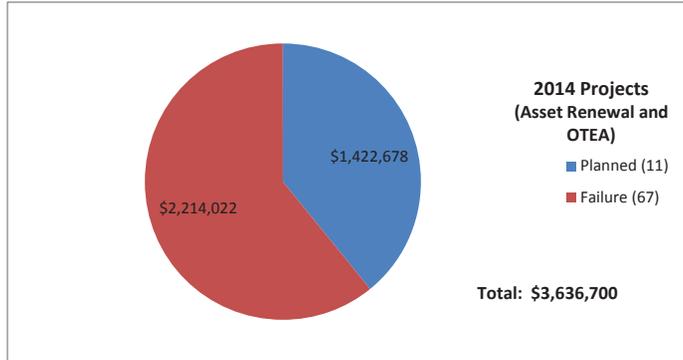
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2014 Projects	
Planned (11)	Failure (67)
\$ 1,422,678	\$ 2,214,022

2015 Projects	
Planned (13)	Failure (37)
\$ 274,413	\$ 1,148,397

2016 Projects	
Planned (11)	Failure (16)
\$ 192,872	\$ 777,168

Total Projects	
Planned (35)	Failure (120)
\$ 1,889,963	\$ 4,139,587



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2014 Projects by Plant	
Mill Creek	35
Little Miami	6
Muddy Creek	6
Taylor Creek	4
Sycamore	4
Polk Run	2
Indian Creek	0
Pump Stations	12
Multiple	1
Other	5

2015 Projects by Plant	
Mill Creek	20
Little Miami	8
Muddy Creek	3
Taylor Creek	0
Sycamore	3
Polk Run	1
Indian Creek	0
Pump Stations	14
Multiple	1
Other	0

2016 Projects by Plant	
Mill Creek	9
Little Miami	5
Muddy Creek	0
Taylor Creek	1
Sycamore	0
Polk Run	0
Indian Creek	0
Pump Stations	12
Multiple	0
Other	0

2016 Projects by Plant	
Mill Creek	64
Little Miami	19
Muddy Creek	9
Taylor Creek	5
Sycamore	7
Polk Run	3
Indian Creek	0
Pump Stations	38
Multiple	2
Other	5

