

**Application of Pennsylvania-American Water Company for Acquisition of Assets of  
The Municipal Authority of the City of McKeesport  
66 Pa. C.S. §1329  
Application Filing Checklist – Water/Wastewater  
Docket No. A-2017-\_\_\_\_\_**

15. Plant in Service.
- a. Provide an inventory of the used and useful plant assets to be transferred. Identify separately any utility plant that is held for future use.<sup>3</sup>

**RESPONSE:**

- a. See enclosed Engineer's Assessment required by 66 Pa. C.S. § 1329(a)(4).

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<sup>3</sup> The inventory is to be developed from available records, maps, work orders, debt issue closing documents funding construction projects, and other sources to ensure an accurate listing of utility plant by utility account.

**THE MUNICIPAL AUTHORITY OF THE  
CITY OF MCKEESPORT**

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**Assessment of Tangible Assets  
Pursuant to PUC Code §1329(A)(4)**



**KLH**

5173 CAMPBELLS RUN ROAD  
PITTSBURGH, PA 15205-9733

# ***Acquisition of the The Municipal Authority of the City of McKeesport***

## **BACKGROUND**

The Municipal Authority of the City of McKeesport (the Authority) provides wastewater service to approximately 64,000 people, or about 22,000 accounts, located in McKeesport, Duquesne, Dravosburg, West Mifflin, and Port Vue, all within Allegheny County, Pennsylvania.

## **OVERVIEW OF THE AUTHORITY'S FACILITIES**

The Authority's assets to be acquired consist of facilities for the collection and treatment of wastewater flows from its customers as well as the assets in Dravosburg, Duquesne, and Port Vue (surrounding communities that the Authority acquired). The Authority's collection system consists of approximately 869,531 linear feet of 6" to 72" pipe, manholes, and 10 pump stations. The Authority has 3 (three) wastewater treatment plants – McKeesport plant, Duquesne plant, and Dravosburg plant.

### ***McKeesport Plant***

The McKeesport plant has an average daily capacity of 13 mgd and peak instantaneous of 56 mgd. This is achieved by implementing a split treatment process. Raw sewage enters the WWTP and is pumped to the headworks building where it is preliminarily treated through screening and grit removal before being split between the two treatment processes. Flow is split to both the activated sludge and chlorine disinfection processes, and SBRs and UV disinfection process before being combined to one common outfall in an open flume that discharges into the Monongahela River.

### ***Duquesne Plant***

The Duquesne plant has a design capacity of 5.0 mgd and has a contact stabilization style activated sludge treatment plant that provides secondary treatment. Influent comes from the combined sewer system, which serves the City of Duquesne and a handful of customers in West Mifflin. There are four (4) flow regulators within the collection system, but none at the treatment plant. Influent flow combines at a manhole within the treatment plant site and flows through the plant in the following manner.

The flow enters the Parshall Flume, which continuously records flow using an ultrasonic flow meter and seven-day chart recorder. It then travels through a mechanically cleaned bar screen, or during times of maintenance, a manually cleaned bar screen. From there, it flows through an aerated grit chamber for grit removal, utilizing a mechanical removal

system and into contact tanks No. 1 & 2, where it is processed by activated stabilized sludge. After that process, the flow is divided into the two (2) clarifier tanks where biological flow and heavy particles settle out. The treated sewage is then chlorinated as it proceeds to the chlorine contact tank before final discharge into the Monongahela River near the mouth of Thompson Run.

### ***Dravosburg Plant***

The Dravosburg plant has a design capacity of 0.48 mgd. Raw sewage enters the plant through a comminutor for the grinding of solids before the flow enters the wet well. Three (3) raw sewage pumps in the wet well pump the sewage to the plant's receiving trough. The flow enters an aerated grit tank for the removal of heavy solids. The flow then enters another trough where return activated sludge (RAS) is introduced into the sewage. The wastewater is treated in dual extended aeration tanks before continuing into dual final settling tanks, in which sludge and floatable material is removed. The plant utilizes dual chlorine contact tanks for disinfection. The treated effluent is discharged to the Monongahela River.

## **OVERVIEW OF THE STUDY**

The Engineer's inventory assessment of the Authority's assets was determined primarily by an insurance appraisal conducted by Industrial Appraisal Company. Other sources used were the Authority's books of account, construction records, and the data bank. A combination of all provided reasonable data as to the tangible assets still in service.

The assets were grouped together using the National Association of Regulatory Utility Commissioners (NARUC) guidelines. The following accounts were used:

- Account 353 – Land and Land Rights
- Account 354 – Structures & Improvements
- Account 355 – Power Generation Equipment
- Account 360 – Collection Sewers
- Account 361 – Gravity Mains
- Account 364 – Flow Metering Devices
- Account 371 – Pumping Equipment
- Account 380 – Treatment & Disposal Equipment
- Account 390 – Office Furniture and Equipment
- Account 391 – Transportation Equipment
- Account 394 – Laboratory Equipment
- Account 396 – Communication Equipment
- Account 398 – Other Tangible Plant

Attached to the document are spreadsheets detailing the assets, the year they were put in service, and their respective NARUC account.

ASSET INVENTORY

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**The Municipal Authority of the City of McKeesport  
Inventory of Assets**

NARUC #	ASSET	DESCRIPTION	YEAR BUILT
353	Land & Land Rights - 28th Avenue PS 28th Ave & Walnut St.	Acres - .2	Block/Lot # 464-E-157
353	Land & Land Rights - Cliff Street PS 1915 Cliff Street	Acres - .2	Block/Lot # 380-B-141
353	Land & Land Rights - Dravosburg STP 160 Washington Ave	Acres - 1.2	Block/Lot # 309-M-160
353	Land & Land Rights - Duquesne STP North 1st Street	Acres - 2.8	Block/Lot # 309-M-395
353	Land & Land Rights - Long Run PS 3706 Walnut Street	Acres - .3	Block/Lot # 463-R-325
353	Land & Land Rights - Long Run PS 3728 Walnut Street	Acres - .1	Block/Lot # 555-C-203
353	Land & Land Rights - McKeesport Office Bldg 2800 Walnut St.	Acres - 1.2	Block/Lot # 464-E-210
353	Land & Land Rights - McKeesport Office Bldg 2800 Walnut St.	Acres - .3	Block/Lot # 464-E-180
353	Land & Land Rights - McKeesport STP 100 Atlantic Ave	Acres - 8.6	Block/Lot # 308-G-109
353	Land & Land Rights - McKeesport STP 100 Atlantic Ave	Acres - 3.1	Block/Lot # 308-G-132
353	Land & Land Rights - McKeesport STP 100 Atlantic Ave	Acres - .2	Block/Lot # 308-G-145
353	Land & Land Rights - Ripple Road PS Ripple Road	Acres - .3	Block/Lot # 463-S-010
354.3	28th Avenue Pump Station	Subbasement	1960
354.3	28th Avenue Pump Station	Subbasement	2015
354.3	28th Avenue Pump Station	Throughout	1960
354.3	28th Avenue Pump Station	Electrical Room	1960
354.3	28th Avenue Pump Station	Electrical Room	2015
354.3	28th Avenue Pump Station	Throughout First Floor	1960

354.3	Bettis Road Pump Station	Lift Station	2006
354.3	Cliff Street Pump Station	Wet Well	1960
354.3	Cliff Street Pump Station	Wet Well - Refurbished	2015
354.3	Cliff Street Pump Station	Pump Room	1960
354.3	Cliff Street Pump Station	Pump Room - Refurbished	2015
354.3	Cliff Street Pump Station	Throughout	1960
354.3	Cliff Street Pump Station	First Floor	1960
354.3	Cliff Street Pump Station	First Floor - Refurbished	2015
354.3	Dravosburg Sewage Plant	Pump Room - Basement	1965
354.3	Dravosburg Sewage Plant	Pump Room - Subbasement	1965
354.3	Long Run Pump Station	Pump Pit - Refurbished	2015
354.3	Long Run Pump Station	Basement - Refurbished	2015
354.3	Long Run Pump Station	First Floor - Refurbished	2015
354.3	Long Run Pump Station	Pump Pit	1960
354.3	Long Run Pump Station	Basement	1960
354.3	Long Run Pump Station	Throughout Bar Screen	1960
354.3	Long Run Pump Station	First Floor	1960
354.3	Long Run Pump Station	Generator Building	1968
354.3	Long Run/Elizabeth Valve Vault	Valve Vault - Item Process Piping	2013
354.3	MACM Sewage Treatment Plant - Pump Station	Wet Well	1960
354.3	MACM Sewage Treatment Plant - Pump Station	Wet Well - Refurbished	2015
354.3	MACM Sewage Treatment Plant - Pump Station	Pump Room	1960
354.3	MACM Sewage Treatment Plant - Pump Station	Pump Room - Refurbished	2015
354.3	MACM Sewage Treatment Plant - Pump Station	Throughout	1960
354.3	MACM Sewage Treatment Plant - Pump Station	Hoist Room	1960
354.3	MACM Sewage Treatment Plant - Pump Station	Hoist Room - Refurbished	2015
354.3	MACM Sewage Treatment Plant - Pump Station	Control Room	1960
354.3	MACM Sewage Treatment Plant - Pump Station	Control Room - Refurbished	2015
354.3	MACM Sewage Treatment Plant - Secondary Pump Station	Basement	1975
354.3	MACM Sewage Treatment Plant - Secondary Pump Station	Throughout	1975
354.3	MACM Sewage Treatment Plant - Secondary Pump Station	First Floor	1975
354.3	Perry Street Pump Station	Pump Station	1960
354.3	RIDC Park Pump Station #1	RIDC 1	1970
354.3	RIDC Park Pump Station #2	RIDC 2	1995
354.3	RIDC Park Pump Station #2	Generator Building	1995



354.3	Ripple Road Pump Station	Pump Station	2015
354.3	Ripple Road Pump Station	Controls	2015
354.3	Ripple Road Pump Station - Control Building	Throughout Building	2015
354.3	West Shore Pump Station	Wet Well	2015
354.3	West Shore Pump Station	Pump Station	2015
354.3	West Shore Pump Station	Pump Room	2015
354.3	West Shore Pump Station	Throughout	2015
354.3	West Shore Pump Station	Valve Vault	2015
354.4	Dravosburg Sewage Plant	Blower Room	1965
354.4	Dravosburg Sewage Plant	Chlorine Room	1965
354.4	Dravosburg Sewage Plant	Garage	1965
354.4	Dravosburg Sewage Plant	Lab	1965
354.4	Dravosburg Sewage Plant	Chlorine Contact Tank	1965
354.4	Dravosburg Sewage Plant	Grit Chamber	1965
354.4	Duquesne Sewage Plant	Plant - Basement	1963
354.4	Duquesne Sewage Plant	Throughout	1963
354.4	Duquesne Sewage Plant	Office	1963
354.4	Duquesne Sewage Plant	Lab	1963
354.4	Duquesne Sewage Plant	Belt Press Room	1963
354.4	Duquesne Sewage Plant	Blower Room	1963
354.4	Duquesne Sewage Plant	Chlorine Room	1963
354.4	Duquesne Sewage Plant	Electric Room	1963
354.4	Duquesne Sewage Plant	Lab	1963
354.4	Duquesne Sewage Plant	Locker Room	1963
354.4	Duquesne Sewage Plant	Parts Room	1963
354.4	Duquesne Sewage Plant	Storage Room	1963
354.4	Duquesne Sewage Plant	Plant - First Floor	1963
354.4	Duquesne Sewage Plant	Parshall Flume	1963
354.4	Duquesne Sewage Plant	Effluent Split	1963
354.4	Duquesne Sewage Plant	Chlorine Contact Tank	1963
354.4	MACM Office and Maintenance Building	Locker Room	1926
354.4	MACM Office and Maintenance Building	Garage	1926
354.4	MACM Office and Maintenance Building	Office Area	1926
354.4	MACM Office and Maintenance Building	Office	1926
354.4	MACM Office and Maintenance Building	Garage	2012



354.4	MACM Sewage Treatment Plant	Gas Meter House	1960
354.4	MACM Sewage Treatment Plant	Garage/Shop	1960
354.4	MACM Sewage Treatment Plant	Garage/Shop - Refurbished	1975
354.4	MACM Sewage Treatment Plant	Garage/Shop - Refurbished	2001
354.4	MACM Sewage Treatment Plant	Headworks Building	2015
354.4	MACM Sewage Treatment Plant	Process Air Building	2015
354.4	MACM Sewage Treatment Plant	Chlorine	2015
354.4	MACM Sewage Treatment Plant	Digester Air	2015
354.4	MACM Sewage Treatment Plant	UV Structure	2015
354.4	MACM Sewage Treatment Plant	Storage Shed	1990
354.4	MACM Sewage Treatment Plant	Influent Chamber	1960
354.4	MACM Sewage Treatment Plant	Final Clarifier #1 - Clarifier size 115" Dia w/ collector arm speed reduction driven by 3/4 Hp Tefc Motor, Center Collection Well, 1- Outer ring fiberglass cover - Westech	2008
354.4	MACM Sewage Treatment Plant	Final Clarifier #2 - Clarifier size 115" Dia w/ collector arm speed reduction driven by 3/4 Hp Tefc Motor, Center Collection Well, 1- Outer ring fiberglass cover - Westech	2008
354.4	MACM Sewage Treatment Plant	Chlorine Contact Tank - Flowmeter Usonic-R Digital Readout - Drexelbroo	1975
354.4	MACM Sewage Treatment Plant	Vactor Receiving Station	1990
354.4	MACM Sewage Treatment Plant	Valve Vault	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Lunchroom	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Lunchroom - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Lunchroom - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Conference Room	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Conference Room - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Conference Room - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	File Room 1	1960
354.4	MACM Sewage Treatment Plant - Admin Building	File Room 1 - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	File Room 1 - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	File Room 2	1960
354.4	MACM Sewage Treatment Plant - Admin Building	File Room 2 - Refurbished	1975

354.4	MACM Sewage Treatment Plant - Admin Building	File Room 2 - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Hall	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Hall - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Hall - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Superintendent	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Superintendent - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Superintendent - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Business Office	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Business Office - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Business Office - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Human Resources	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Human Resources - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Human Resources - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Spare Office	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Spare Office - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Spare Office - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Controller	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Controller - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Controller - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Multipurpose Room	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Multipurpose Room - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Multipurpose Room - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Admin Building	Furnace Room	1960
354.4	MACM Sewage Treatment Plant - Admin Building	Furnace Room - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Admin Building	Furnace Room - Refurbished	2015
354.4	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Pipe Tunnel - Pump Double Disc Duplex Type Vertical Belt Driven by 10HP -02C83A	1975
354.4	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Basins 1, 2, 5, and 6	1975
354.4	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Digester Tank 1 10835D 52x52 w/4-6" pvc headers 52' long w.24-flex air 84P Magnum diffusers 1- Submersible Type Mixed Model 4670 Hoist - MFG-Environmen	1975

354.4	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Digester Tank 2 10835D 52x52 w/4-6" pvc headers 52' long w.24-flex air 84P Magnum Diffusers 1- Submersible Type Mixed Model 4670 Hoist - MFG-Environmen	1975
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 3 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	1960
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 3 - Refurbished- Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 4 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	1960
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 4 - Refurbished - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 5 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	1960



354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 5 - Refurbished - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 6 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	1960
354.4	MACM Sewage Treatment Plant - Aerobic Digester	Number 6 - Refurbished - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
354.4	MACM Sewage Treatment Plant - Control Building	Basement	1960
354.4	MACM Sewage Treatment Plant - Control Building	Basement - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Basement - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Throughout	1960
354.4	MACM Sewage Treatment Plant - Control Building	SCADA	1960
354.4	MACM Sewage Treatment Plant - Control Building	SCADA - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	SCADA - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Filter Press	1960
354.4	MACM Sewage Treatment Plant - Control Building	Filter Press - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Filter Press - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Shop	1960
354.4	MACM Sewage Treatment Plant - Control Building	Shop - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Shop - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Hall	1960
354.4	MACM Sewage Treatment Plant - Control Building	Hall - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Hall - Refurbished	2015

354.4	MACM Sewage Treatment Plant - Control Building	Garage	1960
354.4	MACM Sewage Treatment Plant - Control Building	Garage - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Garage - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Locker	1960
354.4	MACM Sewage Treatment Plant - Control Building	Locker - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Locker - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Lab	1960
354.4	MACM Sewage Treatment Plant - Control Building	Lab - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Lab - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Control Building	Second Floor	1960
354.4	MACM Sewage Treatment Plant - Control Building	Second Floor - Refurbished	1975
354.4	MACM Sewage Treatment Plant - Control Building	Second Floor - Refurbished	2015
354.4	MACM Sewage Treatment Plant - Digester Decant Box	Digester Decant Box #1	2015
354.4	MACM Sewage Treatment Plant - Digester Decant Box	Digester Decant Box #2	2015
355	Duquesne Generators - Duquesne STP	Detroit - Emergency 265Kw 331 KVA, STL Skid Mounted w/ 275 GAL Welded STL Tank	2010
355	MACM Generators - 28th Street Pump Station	Cummins 300KW Driven by Diesel Engine 1 Tramont STL Fuel Tank 1- Transfer Switch DQHB-1203421	2015
355	MACM Generators - Long Run Pump Station	Cummins - 750Kw 937.5 KVA Driven by 6 Cylinder Diesel Engine 1,000 GAL Fuel Tank Eaton Transfer Switch	2015
355	MACM Generators - Perry Street Pump Station	Cummins 20KW 4 Cylinder Natural Gas Fired Transfer Switch, Wiring & Controls Model# GBDB-5668647	2004
355	MACM Generators - RIDC #1 Pump Station	Onan - 35Kw Driven by 6 Cylinder Liquid Propane w/ 1-Transfer Switch	1991
355	MACM Generators - RIDC #2 Pump Station	Generac - 20Kw Driven by 4 Cylinder Liquid Propane w/ 1-Transfer Switch	2002
355	MACM Generators - Ripple Road Pump Station	Cummins - 300Kw Driven by Diesel Engine 1-Tramont STL Fuel Tank 1-Transfer Switch	2015
355	MACM Generators - West Shore Pump Station	Cummins - 1000Kw 3 Phase Driven by 6 Cylinder Diesel Engine 1050 GAL Fuel Tank	2012

360	Collection Sewers (8") - Attached	McKeesport	
360	Collection Sewers (8") - Attached	Duquesne	
360	Collection Sewers (8") - Attached	Dravosburg	
360	Collection Sewers (8") - Attached	Port Vue	
361	Gravity Mains (Above 8") - Attached	McKeesport	
361	Gravity Mains (Above 8") - Attached	Duquesne	
361	Gravity Mains (Above 8") - Attached	Dravosburg	
361	Gravity Mains (Above 8") - Attached	Port Vue	
364	Flow Metering Devices - Attached	McKeesport	
364	Flow Metering Devices - Attached	Duquesne	
364	Flow Metering Devices - Attached	Dravosburg	
364	Flow Metering Devices - Attached	Port Vue	
371	28th Avenue Pump Station	Bar Screen Manual SS 5X6	2015
371	28th Avenue Pump Station	Bank of 3 Centrifugal Pumps 8518-4B, S.O. #7517-901205, 2760 GPM, 99.4 Head Ft Vertical Shaft 150 Ho 1190 RPM Motor	2015
371	28th Avenue Pump Station	Flowmeter Size 20" Digital Readout MFG Krohne	2015
371	28th Avenue Pump Station	Process Piping	2015
371	28th Avenue Pump Station	Power Feed Mains	2015
371	28th Avenue Pump Station	Hoist Wire Rope 2 Ton Capacity Ceiling Mounted	2015
371	28th Avenue Pump Station	Hoist Wire Rope 1/2 Ton Capacity Ceiling Mounted	2015
371	28th Avenue Pump Station	Panel SCADA STL 5X5X1X6 Panelview Control MFG-LANCO	2015
371	28th Avenue Pump Station	Lot Misc Equipment	2015
371	Bettis Road Pump Station	Duplex Sewage Station 2-Submersible Sewage Pumps 6X6 10 HP Motor ITT FLYGT 1-Master Control Panel STL 30X12X36 1-Auto Dialer, Lifting Rails, Wiring & Controls, Piping & Connections	2006
371	Cliff Street Pump Station	Bar Screen SS 5X6	2012



371	Cliff Street Pump Station	Flowmeter Size 20" Digital Readout MFG Krohne	2015
371	Cliff Street Pump Station	Bank of 3 Centrifugal Pumps Size 1, 2576 GPM, 71.2 HD FT, Vertical Shaft Driven by 100 HP 1188 RPM Motor, Wiring & Controls, Piping and Connections Serial # 7517001205 MFG - YOEMANS MOD# 8515/4A	2015
371	Cliff Street Pump Station	Process Piping	2015
371	Cliff Street Pump Station	Power Feed Mains	2015
371	Cliff Street Pump Station	Hoist Wire Rope 2 Ton Capacity Ceiling Mounted MFG-YALE	2015
371	Cliff Street Pump Station	Hoist Wire Rope 1/2 Ton Capacity Ceiling Mounted MFG-YALE	2015
371	Cliff Street Pump Station	Panel SCADA 5X5X1X6 Panelview Control MFG-LANCO	2015
371	Long Run Pump Station	Bank of 3 Wilo Submersible Pumps Model No FA20.78D 270HP 1788 RMP Rail Mounted Wiring&Controls Piping & Connections	2015
371	Long Run Pump Station	Monorail 30' Long I-Beam Rail 4 Ton Capacity Wire Rope Hoist with Power Trolley & I Beam Supports	2015
371	Long Run Pump Station	Gauge Rain No 674	2015
371	Long Run Pump Station	Flowmeter Size 20" Digital Readout MFG Krohne	2015
371	Long Run Pump Station	Bar Screen travelling SS 2X40 Speed Reduction Driven Project 2292 w/ DX washer compactor serial 109-1112-w2292-3, Control Panel SS Project 2292 with wiring	2012
371	Long Run Pump Station	Process Piping	2015
371	Long Run Pump Station	Monorail 8" I Beam Rail 20' Long, Yale 1 Ton Capacity Wire Rope Hoise, Manual Trolley	2015
371	MACM Pump Station	2-Transmitter Signal	2005

371	MACM Pump Station	Bank of 4 Yeomans Centrifugal Pumps 12422-5 5675 GPM 90.6 HD.FT Vertical Shaft Driven Baldor 200HO 855 RPM Motor 7517001208	2015
371	MACM Pump Station	Process Piping	2015
371	MACM Pump Station	Power Feed Mains	2015
371	MACM Pump Station	Hoist Wire Rope 3 Ton Capacity Ceiling Mounted MFG-YALE	2015
371	MACM Pump Station	Readout Flowmeter Explosion Proof Type GK-4064D MFG-KROHNE	2015
371	MACM Pump Station	Bar Screen SS 6x10	2015
371	MACM Secondary Pump Station	Pump Bearing Cooling System 1-STL Tank 2' DIAx3 1/2' HI 2-Centrifugal Pumps 1HP motor 1 1/2x1 1/2 wiring & controls	1985
371	MACM Secondary Pump Station	Panel Pump Control	2015
371	MACM Secondary Pump Station	Pump Centrifugal 3HD97142 10 7/16" Diameter impeller 1750 RPM, Rated 500 GPM 100' TDH Coupled Drive by 25HP 1760 RPM 230/460 Volt 3 Phase 60 Cycle 70/35AMP Pacemaker Motor Conduit & Wiring 2677326-1/2678601	1975
371	MACM Secondary Pump Station	Pump Centrifugal 3HD97142 10 7/16" Diameter impeller 1750 RPM, Rated 500 GPM 100' TDH Coupled Drive by 25HP 1760 RPM 230/460 Volt 3 Phase 60 Cycle 70/35AMP Pacemaker Motor Conduit & Wiring 2677326-1/2678608	1975
371	MACM Secondary Pump Station	Pump Centrifugal XH602707 12 7/8" Diameter Impeller 1750 RPM Rate 550 GPM 168' TDH Couple Drive by Louis-Allis 50 Hp 1775 RPM 230/460Volt 3 Phase 60 Cycle 126/63AMP Pacemaker Motor Conduit & Wiring	1975

371	MACM Secondary Pump Station	Pump Centrifugal 12x22 4000 GPM 26' Head 700 RPM Coupled Drive by GE 40 HP 720 RPM 230/460 V 3 Phase 60 Cycle Induction 74-13516-3	1975
371	MACM Secondary Pump Station	Pump Centrifugal 12x22 4000 GPM 26' Head 700 RPM Coupled Drive by GE 40 HP 720 RPM 230/460 V 3 Phase 60 Cycle Induction 74-13516-2	1975
371	MACM Secondary Pump Station	Pump Centrifugal 12x22 4000 GPM 26' Head 700 RPM Coupled Drive by GE 40 HP 720 RPM 230/460 V 3 Phase 60 Cycle Induction 74-13516-1	1975
371	MACM Secondary Pump Station	Pump Centrifugal 4x12 Type 611 SF 30 GPM 38' Head 1150 RPM coupled drive by US Electrical 10HP Vari-Drive MotorType VEU-TF 230/460 V 74-6589-2	1975
371	MACM Secondary Pump Station	Pump Centrifugal 4x12 Type 611 SF 30 GPM 38' Head 1150 RPM coupled drive by US Electrical 10HP Vari-Drive MotorType VEU-TF 230/460 V 74-6589-1	1975
371	MACM Secondary Pump Station	Panel Control	1975
371	MACM Secondary Pump Station	Process Piping	1975
371	MACM Secondary Pump Station	Power Feed Mains	1975

371	MACM Secondary Pump Station	Blower Centrifugal GS25375A 4000 ICFM Air to discharge, pressure 8.0 PSIG at elevated 740 Degrees and 100 degrees F. Air temperature, coupled drive by GE 200HP 3560 RPM 460 V 3 Phase 30 Cycle 230 Amp induction motor air intake roof mounted filter bif 14" sure sealed butterfly valve actuator piping & fittings 107437 MOD#38506B	1975
371	MACM Secondary Pump Station	Blower Centrifugal GS25375A 4000 ICFM Air to discharge, pressure 8.0 PSIG at elevated 740 Degrees and 100 degrees F. Air temperature, coupled drive by GE 200HP 3560 RPM 460 V 3 Phase 30 Cycle 230 Amp induction motor air intake roof mounted filter bif 14" sure seal rubber sealed butterfly valve actuator, piping & fittings conduit wiring and controls 107439 MOD#38506B	1975
371	MACM Secondary Pump Station	Blower Centrifugal GS25375B 1125 ICFM Air to discharge, pressure 2.25 PSIG at Elevated 740 Degrees and 100 Degrees F. Air Temperature, coupled drive by Louis-Allis 40 HP 3510 RPM 230/460V 3 Phase 60 Cycle 99/49 Amp Pacemaker Motor, Roof Mounted Air Intake Filter 8" Blast Gate, Piping & Fittings Conduit, Wiring & Controls 107441 MOD #38304B1	1975

371	MACM Secondary Pump Station	Blower Centrifugal GS25375B 1125 ICFM Air to dischard, pressure 2.25 PSIG at Elevated 740 Degrees and 100 Degrees F. Air Temperature, coupled drive by Louis-Allis 40 HP 3510 RPM 230/460V 3 Phase 60 Cycle 99/49 Amp Pacemaker Motor, Roof Mounted Air Intake Filter 8" Blast Gate, Piping & Fittings Conduit, Wiring & Controls 117440 MOD #38304B1	1975
371	MACM Secondary Pump Station	Hoist Chain Electric 2 Ton Capactiy Motorized Trolley, Floor Pendant Control 24' Lift, Wiring & Controls	1975
371	MACM Secondary Pump Station	5 - Manometer 30" Range 0-10 PSIG, Wall Mounted Conduit & Tubing MOD# 30EB25WM	1975
371	MACM Secondary Pump Station	2- Pump Submersible size 4X4 3HP Motor Flowmeter 4", wiring & controls piping & connections	1975
371	Perry Street Pump Station	Tank 4x3 1/2x5	2004
371	Perry Street Pump Station	Submersible Sewage Pumps Size 6" 5Hp Submersible Pumps, Wiring & Controls (2)	2004
371	Perry Street Pump Station	Flowmeter Size 6" Digital Readout Krohne	2004
371	Perry Street Pump Station	Generator Building	2004
371	RIDC #1 Pump Station	Bank of 2 Submersible Pumps - 6" 10Hp	1991
371	RIDC #1 Pump Station	Generator Building	1991
371	RIDC #1 Pump Station	Pump Control Panel - 2 Pump Cap 2- Allen Bradley Programmable Control	1991
371	RIDC #1 Pump Station	Generator - 35 KW 6 Cylinder Liquid Propane 1 Transfer Switch	2002
371	RIDC Park Pump Station #2	Bank of 2 Submersible Pumps - 5Hp Motor Size 4 1- Master Contol Panel E24866	2002
371	RIDC Park Pump Station #2	Process Piping	2002



371	Ripple Road Pump Station	Monorail - 1-10" I-Beam Rail 60' Long 1-Wire Rope Hoist	2015
371	Ripple Road Pump Station	Muffin Monster Shp Motor - 10830221	2015
371	Ripple Road Pump Station	Flowmeter - Size 12" Explosion Proof Krohne - GK42637	2015
371	Ripple Road Pump Station	Bank of 3 Submersible Pumps - Size 6" 79 Hp Rail Mounted Wilo - FA15772	2015
371	Ripple Road Pump Station	Camera Video Surveillance	2011
371	Ripple Road Pump Station	Process Piping	2011
371	West Shore Pump Station	Manual Bar Screen - SS 5x10	2015
371	West Shore Pump Station	Detector Gas Polytron (2) Drawger	2015
371	West Shore Pump Station	Bank of 4 Centrifugal Pumps - 7300GPM Vertical Shaft Driven by Baldor 200Hp 885RPM Wiring & Controls	2015
371	West Shore Pump Station	Process Piping	2012
371	West Shore Pump Station	Power Feed Mains	2012
371	West Shore Pump Station	Traveling Bar Screen 1- Screen Compactor 1- Screw Type Take Off Conveyor 1-Inclinded Rubber Belt	2015
371	West Shore Pump Station	Monorail 1- 8" I Beam Rail 20' Long 1-Yale Wire Rope Hoist 1-12" I Beam Rail 42' Long 1-Yale Wire Rope Hoist	2015
371	West Shore Pump Station	Panel SCADA w/ Panelview Control	2015
380	Dravosburg Sewage Plant - Blower Room	Misc Equipment	1980
380	Dravosburg Sewage Plant - Blower Room	Monitor, Multigas, Case MFG - Industrial MOD# TMX412	2006
380	Dravosburg Sewage Plant - Blower Room	Chlorine Scale 2 Cylinder Capacity Digital Readout 2 - Siemens Model W3T97930 MFG-Scaletron	2006
380	Dravosburg Sewage Plant - Blower Room	Chlorine Contact Tank Sampler Sampler Refridgerated all weather Enclosure MFG-SIGMA MOD#-SD900	2010



380	Duquesne Sewage Plant	Press Belt Filter 1.0M Belt Width J-Belt Model BFP 2000-1.0M-PN	1963
380	Duquesne Sewage Plant	2-Grundfos Type CR8-6B Wash Water Pumps, Size 2X2 5HP Motor	1963
380	Duquesne Sewage Plant	1-Incline Belt Conveyor Motor Driven 18" Widthx24 Linft	1963
380	Duquesne Sewage Plant	1-Master Control Panel SS 36X12X42 P.L.C. -ABB Panelview 500	1963
380	Duquesne Sewage Plant	1-Aluminum Work Platform, Piping & Controls & Connections JF0044	1963
380	Duquesne Sewage Plant	2- Clarifier 20' dia 15' depth 1HO Drive Motor	1963
380	Duquesne Sewage Plant	Bank of 2 Door-Oliver Densludge Thickeners 20' dia bottom mounted rake arm 5' dia x 6' high stl influent well permimeter mounted stl plate weir driven by 1/3 HO 1725 RPM Motor 12" reinforced concrete bridge 25x3 stl pipe railings master control panel, wiring and controls.	1963
380	Duquesne Sewage Plant	Bubble Diffuser System 4- Size 20x25 Treatment Tanks Fine Bubble Diffusers 4- Size 20x25 Digester Tanks, Coarse Bubble Diffusers	1963
380	Duquesne Sewage Plant	Bar Screen Inclined 84 Degree Heavy Duty Project No 20891-01 Chain Driven SS 36' Width x 12 1/2' 7.6 MGD CAP at 1- 10' Depth, Master Control Panel	1963
380	Duquesne Sewage Plant	Bar Screen Bypass 1 1/2x3/8" Bars 2" on Center, Aluminum 42"Widex 54"	1963

380	Duquesne Sewage Plant	Grit Removal System US Filter Air Lift Grit Washer Model SW 12" DIAx 12' Long Project 2089-1-301 Driven by 1HP 1800 RPM Motor 58 GPM Flow 1- Simplex swingfusers type B-1 Aerators, 9 Diffusers, 2- air lift grit pumps 3" dia 1 - Master Control Panel 2x1x2	1963
380	Duquesne Sewage Plant - Belt Press Room	Belt Press Filter	1963
380	Duquesne Sewage Plant - Belt Press Room	Polymer Feed System	1963
380	Duquesne Sewage Plant - Blower Room	Centrifugal Blower 100 HP Motor STL Skid Mounted Wiring & Controls Piping & Connections M116460 Hoffman 73207A6	1963
380	Duquesne Sewage Plant - Blower Room	Centrifugal Blower 100 HP Motor STL Skid Mounted Wiring & Controls Piping & Connections M116470 Hoffman 73207A6	1963
380	Duquesne Sewage Plant - Blower Room	Centrifugal Blower 100 HP Motor STL Skid Mounted Wiring & Controls Piping & Connections M116450 Hoffman 73207A6	1963
380	Duquesne Sewage Plant - Chlorine Contact Tank	Chlorination Controller MFG Stantrol MOD 890	1963
380	Duquesne Sewage Plant - Chlorine Contact Tank	Monitor Level Ultrasonic Datum UI1500	1963
380	Duquesne Sewage Plant - Chlorine Contact Tank	Refrigerated Sampler MFG-ISCO Model 3700FR	1963
380	Duquesne Sewage Plant - Chlorine Contact Tank	Lot Process Piping	1963
380	Duquesne Sewage Plant - Chlorine Room	Scale Chlorine Platform Type 4,000# Capacity Chlor-Scale w/ Century 12D40A Wall Mounted Gauge	1963
380	Duquesne Sewage Plant - Parshall Flume	Monitor Level Ultrasonic Datum UT1500 MFG-ABB	1963
380	MACM Sewage Treatment Plant	Sludge Concetrate Tank	1960

380	MACM Sewage Treatment Plant	SBR Tank - Duel Mode Batch Reactors 4 Pre react zones 24 2/3' X80' Long w/ 6 Air Distributors 4- Basins 80x134 18- Air distributors by grid, 8 - Flygt Sub Type Mixers 4670 SS w/ 20 Hp Motor 4 - Flygt Sub type Mixers 3 1/8" 3 HP Motor 8- Hatch Model SC1000 PH Meters 1 - Thern Portable Jib Crane ss 1 Ton, Wiring & Controls	2015
380	MACM Sewage Treatment Plant	Chlorine Contact Tank	2011
380	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Recorder Chart 12" DIA 2 Pen w/ dissolve oxygen meter MFG-Chessell	2003
380	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Flowmeter Size 8" Digital Readout	2003
380	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Basins 1, 2, 5, and 6 Fine Bubble aeration system for tanks w/ feed pipe manifold system & diffusers	1999
380	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Digester Tank 1 10835D 52x52 w/4-6" pvc headers 52' long w.24-flex air 84P Magnum diffusers 1- Submersible type mixed model 4670 Hoist - MFG-Environmen	2007
380	MACM Sewage Treatment Plant Aerobic Basin/Digester Tank	Digester Tank 2 10835D 52x52 w/4-6" pvc headers 52' long w.24-flex air 84P Magnum diffusers 1- Submersible type mixed model 4670 Hoist - MFG-Environmen	2007
380	MACM Sewage Treatment Plant - Aerobic Digester	Number 4 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015

380	MACM Sewage Treatment Plant - Aerobic Digester	Number 5 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
380	MACM Sewage Treatment Plant - Aerobic Digester	Number 6 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
380	MACM Sewage Treatment Plant - Aerobic Digester	Number 3 - Coarse Bubble Aeration System Project 16901 Tank Size 29x155' Long 3-6" SS Couplings 3-6" X4 Schedule 40 PVC Schedule 40 Air Header 29' Long SS Ridged Pipe Supports 56-Max Air duplex diffuser assembly - Environmen	2015
380	MACM Sewage Treatment Plant - Chlorine Building	Scale Chlorine Cyliner - 2-Cylinder Cradles 1- Wizard 4000 Digital Readout - Force Flow	2015
380	MACM Sewage Treatment Plant - Chlorine Building	12" I Beam Rail - 45" Long 1-Wire base hoise 2 ton Cap w/ Power Trolley	2015
380	MACM Sewage Treatment Plant - Chlorine Building	Misc Machinery C/O Chlorinator, Signal Transmitters, Gas Detector, Chlorine Analyzer	2015
380	MACM Sewage Treatment Plant - Chlorine Building	Chlorination System C/O 1-Wallace & Tiernan Model SFCSC Controller, Piping & Connections	2015
380	MACM Sewage Treatment Plant - Chlorine Building	Breathing Apparatus - Self Contained	2015
380	MACM Sewage Treatment Plant - Chlorine Building	Power Feed Mains	2015
380	MACM Sewage Treatment Plant - Control Building	Muffin Monster Model 3000411T-1204 w/wiring and controls, piping & connections	2015
380	MACM Sewage Treatment Plant - Control Building	Air Compressor - Vertical Belt Driven 3Hp, Vertical tank mounted. Wiring & Controls	2015

380	MACM Sewage Treatment Plant - Control Building	Air Compressor - Vertical Belt Driven 15Hp, Vertical tank mounted. Wiring & Controls	2000
380	MACM Sewage Treatment Plant - Control Building	Air Compressor - Vertical Belt Driven 15Hp Horizontal Tank Mounted w/ wiring & Controls	1960
380	MACM Sewage Treatment Plant - Control Building	Air Compressor - Vertical Belt Driven 2Hp Horizontal Tank Mounted w/ wiring & Controls	1960
380	MACM Sewage Treatment Plant - Control Building	SCADA System 1 - CPU Cabinet STL 2x4x7 Controls & Power Supply 4- Allen Bradley 750R Servers 4-UPS 2-CPU Monitors 1-LG 55" Plant Monitor 11- Color Surveillance Cameras 1- DVR	2015
380	MACM Sewage Treatment Plant - Control Building	Tower Belt Filter Press - Type 2253SH Size 2.2 Meter Width #244 Year 2000 Serpentix Pathwinder w/Takeoff conveyor	2015
380	MACM Sewage Treatment Plant - Control Building	Press Rotary Sludge 6 Station 13-4044, Speed Reduction Driven by 20 Hp 1450 RPM Motor 1-Base Mounted Screw Conveyor 1-Raised Work Platform 1-3" Flowmeter	2015
380	MACM Sewage Treatment Plant - Digester Air Building	4- Blower Rotary Heliflow Model HYFLMBA CATNo. HF624 3300RPM Direct Driven By Baldor200Hp Motor w. 2 Silencers Gardner - S370893, S370894, S370891, S370892	2015
380	MACM Sewage Treatment Plant - Final Clarifier Tank 1	Final Clarifier #1 - Clarifier size 115" Dia w/ collector arm speed reduction driven by 3/4 Hp Tefc Motor, Center Collection Well, 1- Outer ring fibrgls cover - westech	2008



380	MACM Sewage Treatment Plant - Final Clarifier Tank 2	Final Clarifier #2 - Clarifier size 115" Dia w/ collector arm speed reduction driven by 3/4 Hp Tefc Motor, Center Collection Well, 1- Outer ring fibrgls cover - westech	2008
380	MACM Sewage Treatment Plant - Headworks	Grit Collection System - 2- Duperon Mechanical Bar Screens 1- Serpintix Pathwinder Type P2 1- SS Manual Bar Screen 1-Pista Turbo Grit Chamber 1- Pista Turbo Grit Washer	2015
380	MACM Sewage Treatment Plant - Headworks	Flowmeter (3) - Open Channel	2015
380	MACM Sewage Treatment Plant - Process Air Building	Blower Rotary (6) - Model HYFLMBA Vertical Belt Driven 125 Hp S366440, S366444, S366441, S366443, S366442 S343340	2015
380	MACM Sewage Treatment Plant - Secondary Pump Station	Blower Centrifugal (5) Blower Centrifugal GS25375A 4000 ICFM Air to discharge, pressure 8.0 PSIG at elevated 740 Degrees and 100 degrees F. Air temperature, coupled drive by GE 200HP 3560 RPM 460 V 3 Phase 30 Cycle 230 Amp induction motor air intake roof mounted filter bif 14" sure sealed butterfly valve actuator piping & fittings	1975
380	MACM Sewage Treatment Plant - UV Treatment Chamber	UV System Aquaray - 9- Aquaray 3X VLS High Output Modules 3 per channel 9- UV intensity sensors 12 - Mounting Rails 27 - Power interconnect cables 18 - Data Interconnect cables 3- Power supply units 1- Automatic Cleaning System 1 - Cable Tray 1 - Flowmeter 1 - Emergency Shower	2015
390	Office Furn & Equip - Admin Bldg	EDP Equipment	2015
390	Office Furn & Equip - Admin Bldg - Business Office	Misc Furniture & Equipment	2015



390	Office Furn & Equip - Admin Bldg - Conference	Furniture	2015
390	Office Furn & Equip - Admin Bldg - Controller	Misc Furniture & Equipment	2015
390	Office Furn & Equip - Admin Bldg - Controller	Misc EDP Equipment	2015
390	Office Furn & Equip - Admin Bldg - File Room 1	Misc Equipment	1998
390	Office Furn & Equip - Admin Bldg - File Room 1	Copier Blueprint	2010
390	Office Furn & Equip - Admin Bldg - File Room 1	Copier Sharp	2013
390	Office Furn & Equip - Admin Bldg - File Room 2	Misc Files, Tables, Equipment	2000
390	Office Furn & Equip - Admin Bldg - File Room 2	Server Proliant	2013
390	Office Furn & Equip - Admin Bldg - Furnace Room	Minor Equipment	2015
390	Office Furn & Equip - Admin Bldg - Hall	Misc Chairs and Tables	1995
390	Office Furn & Equip - Admin Bldg - HR	Misc Furniture & Equipment	2015
390	Office Furn & Equip - Admin Bldg - HR	Misc Office Machines & Devices	2015
390	Office Furn & Equip - Admin Bldg - Lunch	Misc Appliances & Equipment	2015
390	Office Furn & Equip - Admin Bldg - Spare Office	Misc Furniture & Equipment	1985
390	Office Furn & Equip - Admin Bldg - Superintendent	Misc Furniture & Equipment	1998
390	Office Furn & Equip - Admin Bldg - Throughout	Telephone System	2004
390	Office Furn & Equip - Dravosburg STP - Blower Room	Misc Furniture & Equipment	1980
390	Office Furn & Equip - Dravosburg STP - Blower Room	Monitor Multigas Case	2006
390	Office Furn & Equip - Dravosburg STP - Garage	Misc Maint & General Equipment	1995
390	Office Furn & Equip - Dravosburg STP - Lab	Misc Furniture & Equipment	1980
390	Office Furn & Equip - Dravosburg STP - Lab	Misc EDP Equipment	2011
390	Office Furn & Equip - Duquesne STP - Belt Press Room	Misc General Equipment	2010
390	Office Furn & Equip - Duquesne STP - Electric Room	Misc Equipment	2010
390	Office Furn & Equip - Duquesne STP - Lab	Misc Furniture & Equipment	2010
390	Office Furn & Equip - Duquesne STP - Lab	Misc EDP Equipment	2010
390	Office Furn & Equip - Duquesne STP - Locker	Misc Furniture & Equipment	2010
390	Office Furn & Equip - Duquesne STP - Office	Misc Furniture & Equipment	2010
390	Office Furn & Equip - Duquesne STP - Parts Room	Misc Furniture & Equipment	2010
390	Office Furn & Equip - Duquesne STP - Plant	Misc Maint & General Equipment	2010
390	Office Furn & Equip - Duquesne STP - Storage Room	Misc Minor Equipment	2010
390	Office Furn & Equip - MACM STP - Control Bldg 2 Floor	Misc Equipment	1995
390	Office Furn & Equip - MACM STP - Control Bldg Garage	Misc Equipment	1995
390	Office Furn & Equip - MACM STP - Control Bldg Hall	Misc Equipment	2010
390	Office Furn & Equip - MACM STP - Control Bldg Locker	Misc Equipment	1990
390	Office Furn & Equip - MACM STP - Control Bldg Shop	Misc Equipment	1990

390	Office Furn & Equip - MACM STP - Control Building	Misc Furniture	2015
390	Office Furn & Equip - MACM STP - Garage	Misc Shop Tools and Equipment	1990
390	Office Furn & Equip - Office & Maint Bldg - Locker	Misc Lockers & Benches	2013
390	Office Furn & Equip - Office & Maint Bldg - Office	Misc Machines & Devices	2010
390	Office Furn & Equip - Office & Maint Bldg - Office	Misc EDP Equipment	2013
390	Office Furn & Equip - Office & Maint Bldg - Office	Telephone System	2010
390	Office Furn & Equip - Office & Maint Bldg - Office	Item EDP Equipment	2013
390	Office Furn & Equip - Office & Maint Bldg - Office	Minor Office Furniture & Equipment	2009
390	Office Furn & Equip- 28th Ave PS - Throughout	Misc Equipment	2015
390	Office Furn & Equip- Admin Bldg - Multi Purpose	Misc Furniture & Equipment	2015
390	Office Furn & Equip- MACM STP - Control Building	Minor Equipment	2010
390	Office Furn & Equip- Office & Maint Bldg - Office	Misc Furniture & Equipment	2009
391	Transportation Equipment	Ford Truck F350	2003
391	Transportation Equipment	Ford Truck F250	2004
391	Transportation Equipment	Ford Truck F750	2009
391	Transportation Equipment	Ford Truck F150	2009
391	Transportation Equipment	Ford Truck F350	2011
391	Transportation Equipment	Ford Truck F150	2011
391	Transportation Equipment	Ford Truck F750	2012
391	Transportation Equipment	Chevrolet 1500	2010
391	Transportation Equipment	Chevrolet Silverado	2011
391	Transportation Equipment	Chevrolet Silverado	2013
391	Transportation Equipment	Chevrolet Silverado	2014
391	Transportation Equipment	Chevrolet Tahoe	2012
391	Transportation Equipment	Chevrolet Van	2015
391	Transportation Equipment	Chevrolet Trailblazer	2008
391	Transportation Equipment	GMC Van 3500	2010
391	Transportation Equipment	Vactor Truck	2010
391	Transportation Equipment	Vactor Truck	2014
391	Transportation Equipment	Sprinter Truck	2007
391	Transportation Equipment	Caterpillar Backhoe	2011
391	Transportation Equipment	Caterpillar Backhoe	2012
391	Transportation Equipment	Chevrolet Silverado	2016
391	Transportation Equipment	Chevrolet Cutaway 3500	2015
391	Transportation Equipment	International Van	2010





SEWER SYSTEM PIPING

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# MACM Sewer System

## McKeesport

Piping Size	Linear Feet	Service Date
8	47,086	1959
10	30,762	1959
12	62,339	1959
15	26,574	1959
16	2,557	1959
18	8,936	1959
20	979	1959
24	24,729	1959
30	11,733	1959
36	225	1959
<b>Total</b>	<b>215,920</b>	
8	92,567	1976
10	10,108	1976
12	22,833	1976
15	1,780	1976
16	9,864	1976
24	12,932	1976
30	3,944	1976
<b>Total</b>	<b>154,028</b>	
8	70,433	1989
10	17,064	1989
15	1,817	1989
24	10,245	1989
<b>Total</b>	<b>99,559</b>	
8	17,838	1999
10	4,403	1999
18	21,090	1999
<b>Total</b>	<b>43,331</b>	
8	213	2008
12	173	2008
15	66	2008
20	31	2008
21	758	2008
24	1,623	2008
36	382	2008
42	252	2008
48	462	2008
60	485	2008
72	219	2008
<b>Total</b>	<b>4,664</b>	
30	2,300	2009
36	16,000	2009
<b>Total</b>	<b>18,300</b>	
8	23,000	2010
24	865	2011
30	1,169	2011
54	238	2011
72	1,963	2011
<b>Total</b>	<b>4,235</b>	
<b>Other</b>		
Manholes	2,490	1911
Manholes	51	2008
Manholes	13	2011

# MACM Sewer System

## Duquesne

Piping Size	Linear Feet	Service Date
8	19,000	1959
10	8,314	1959
12	16,895	1959
15	7,200	1959
16	691	1959
18	2,415	1959
20	273	1959
24	7,356	1959
30	3,487	1959
36	164	1959
<b>Total</b>	<b>65,795</b>	
8	25,018	1976
10	2,732	1976
12	6,171	1976
15	481	1976
16	2,666	1976
24	3,495	1976
30	1,066	1976
<b>Total</b>	<b>41,629</b>	
8	19,036	1989
10	4,612	1989
15	491	1989
24	2,769	1989
<b>Total</b>	<b>26,908</b>	
8	4,821	1999
10	1,190	1999
18	5,700	1999
<b>Total</b>	<b>11,711</b>	
<b>Other</b>		
4.5' x3'	6,237	1963
Manholes	396	1963
Large Manholes	23	1963
Manholes	280	1976
Manholes	128	1989
Manholes	39	1999



# MACM Sewer System

## Dravosburg

Piping Size	Linear Feet	Service Date
6	1,100	1962
8	21,114	1962
10	7,957	1962
12	7,396	1962
15	320	1962
18	2,376	1962
20	360	1962
24	1,440	1962
60	428	1962
72	2,227	1962
Eggshape	613	1962
<b>Total</b>	<b>45,331</b>	
8	2,017	1980
8	1,446	1984
<b>Other</b>		
Manholes	269	1962

# MACM Sewer System

## Port Vue

Piping Size	Linear Feet	Service Date
6	1,898	1919,1928,1949,1960
8	72,309	1919,1928,1949,1960
10	14,232	1919,1928,1949,1960
12	6,985	1919,1928,1949,1960
15	8,661	1919,1928,1949,1960
18	1,317	1919,1928,1949,1960
21	3,944	1919,1928,1949,1960
24	1,650	1919,1928,1949,1960
27	661	1919,1928,1949,1960
<b>Total</b>	<b>111,657</b>	
Manholes	597	1919,1928,1949,1960

## FLOW METERING DEVICES

# MACM

## Flow Metering Devices

Sewage Treatment Plant	Number	Service Date
McKeesport	27	2010
Duquesne	4	2011
Dravosburg	1	2010
Port Vue	4	2016



COLLECTION SEWERS - FORCE

# MACM

## Collection Sewers - Force

Sewage Treatment Plant	Linear Feet	Service Date
McKeesport	27,537	2015
Port Vue	150	
Air Release Manholes	16	2015

CSO STRUCTURES

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# MACM

## CSO Structures

Sewage Treatment Plant	Number	Service Date
McKeesport	27*	1960
Duquesne	4	1959
Dravosburg	1	1962
Port Vue	4	1960

\* 16 were rebuilt in 2008



CSO STRUCTURES DETAIL

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# MACM Sewer System

## CSO Structures Detail

CSO Number	Location	Size (LxW)	Pipe Size IN	Pipe Size OUT
003	Long Run	5 Diameter MH	30	18
004	Rebecca Street	12 x 11	36	36
005	Erie Street	17 x 11.5	15	15
006	Ann Street	17 x 11.5	24	24
007	Dale Street	17 x 11.5	24	24
008	Perry Street	17 x 11.5	18	18
009	Windsor Street	17 x 11.5	20	20
010	Morgan Alley	17 x 11.5	18	18
012	Fourth Ave	12 x 8	24	24
013	Fifth Ave	12 x 8	24	24
014	Sixth Ave	12 x 8	21	21
015	Seventh Ave	12 x 8	24	24
018	Ninth Ave	16 x 12	60	60
020	Eleventh Ave	12 x 8	24	24
021	Twelfth Ave	16 x 12	48	48
022	Thirteenth Ave	12 x 8	36	36
023	Twenty-Eighth Ave	21 x 16	60	60
024	Eden Park Ave	17 x 11.5	24	24
025	Walnut Street	18 x 13	36	36
026	Walnut Street	21 x 15	60x34	60x34
027	Huey Street	16x11	42	42
028	Martin Street	18 x 13	3.67 x 2.92	3.67 x 2.92
029	Center Street	12 x 11.5	15	15
030	Evans Street	15.5 x 14	72	72
031	White Street	12 x 11.5	18	18
032	Cliff Street	17 x 18	18	18
033	Cliff Street	20 x 14	24	24