

TOTAL PROJECT COSTS		
ID	Project Title	Total Project Cost
J01006	JI Preliminary Facility Upgrade	\$22,571,815
J01008	Upgrade Primary Clarifier Mechanisms	\$5,332,894
J01015	JI Primary Clarifier Channel Improvements	\$2,766,148
J01016	Primary Effluent Division Chamber Sampler	\$113,844
J01019	JI Force Main Assessment	\$633,986
J02004	PACs Electrical Switch Gear	\$1,521,469
J02007	Secondary Clarifier Drive Replacement	\$12,532,705
J02008	JI Aeration System Enhancements	\$7,539,067
J02012	Aeration System Diffusers Replacement	\$3,749,450
J02013	East Plant RAS Header and Pump Replacement	\$1,522,122
J03004	JI Effluent Pump Replacement	\$2,905,086
J04013	D&D VFD's Replacement	\$1,624,003
J04017	Milorganite Dryer Improvements	\$2,924,040
J04029	E/B Tank Mixing Compressor Replacement	\$592,585
J04031	Biosolids/Energy Instrumentation Upgrade	\$706,473
J04033	D&D Drainage Piping & Quench Chambers Rehabilitation	\$1,698,003
J04036	Main Recycle Screw Conveyor #1 Replacement	\$1,285,409
J04037	Wet Weather Gravity Belt Thickener	\$1,213,528
J04039	D&D Building Explosion Relief Panel Replacement	\$2,947,272
J04040	D&D Freight & Passenger Elevator Rehab	\$2,610,431
J04041	Milorganite Facilities Improvement - Phase III	\$5,561,575
J04043	Replace Wet Recycle Screws 1 & 2	\$1,882,690
J04046	D&D Energy Conservation Efforts	\$1,403,141
J04047	Install Winches at Chaff Load out Bay	\$260,804
J04050	Dryer Feed and Discharge Screw Replacement	\$3,311,703
J04051	MRAB Feed Screw Replacements	\$782,428
J04052	Milorganite Facilities Improvements Phase IV	\$3,078,742
J04058	Dryer Exhaust Evaluation	\$214,866
J04059	Milorganite Product Cooler Replacement	\$1,659,090
J04060	Sludge Cake Transport	\$4,467,936
J04061	D&D PLC 5 Upgrades	\$7,337,279
J06022	Site Settlement	\$1,744,691
J06026	JI Site Lighting Upgrade	\$966,242
J06032	JI Geotechnical Structural Analysis	\$578,501
J06034	Head Tank Wall Extension	\$2,094,757
J06037	Gas Turbine Replacement	\$43,867,751
J06044	W3 & W4 Water Strainer Improvements	\$591,926
J06045	HVAC for Computer Room in Ops Building	\$395,565
J06047	Implementation of Safety Recommendations	\$311,655
J06049	JI Field Operations Building Rehab (#278)	\$674,447
J06050	JI I&C Improvements	\$1,772,550
J06051	JI Building Roof Replacement	\$5,882,999
J06052	Building Piping Inventory & Rehabilitation	\$945,193
J06054	ISS Crane Rehabilitation	\$3,657,932
J06055	Alternative Power Feed to Operations Building	\$201,363
J06056	Turbine Extended Service Agreement	\$15,474,831
J06057	VFD's for RAS WP, Service Water & WAS Receiving	\$1,791,492
J06058	JI Building Roof Replacement - Phase II	\$3,017,922
J06061	Duct Burner/Dryer Conversion for Additional LFG	\$8,800,605
J06062	Re-Commission GE Turbine #2	\$318,330
J06063	Tunnel & Gallery System Hazardous Rating Improvements	\$298,290
J06064	Gaseous Fire Suppression Systems	\$945,065
J06065	Rolling Stock & Other Equipment	\$14,142,175
J06066	JI Power Supply Optimization	\$801,872
J06068	JI & SS Network Optimizations	\$1,266,653
J06069	JI Building Roof Replacement - Phase 3	\$6,219,886
J06070	D&D Lighting Upgrade	\$1,162,367

J06073	Harbor Siphons Area Settlement Mitigation	\$513,712
S01009	Scum System Improvements	\$1,809,269
S01010	Influent Channel Sampler	\$556,700
S01012	SS Influent Odor Control System	\$16,413
S02005	Secondary Clarifier Upgrade	\$11,200,684
S02008	SS Capacity Improvements	\$6,448,930
S02009	SS Aeration Control System Upgrade	\$1,717,169
S02010	RAS VFD Replacements	\$1,168,854
S02012	Biological Phosphorous Removal	\$4,750,215
S02013	Aeration Galleries RAS Header Piping Rehab	\$3,097,487
S02014	Secondary Clarifier Idling Control	\$572,473
S03003	Post-Secondary Capacity Improvements	\$5,847,696
S04010	Thickening Process Capacity Enhancements	\$2,834,272
S04020	Digester Mixing and Piping Replacement	\$5,034,552
S04023	Aeration Basin Concrete Rehab - Phase II	\$2,611,766
S04024	Digester Gallery Piping Rehab	\$1,197,816
S04025	HW Boiler Control Systems Improvements	\$598,024
S04027	WAS Digesting Study	\$88,376
S04028	Remove Grass Cover at Digesters	\$287,843
S04030	Aeration Basin Concrete Rehab - Phase III	\$6,803,607
S04031	Digester Gas Treatment System	\$4,675,206
S06010	SS Site Lighting Upgrade	\$719,382
S06015	SS Geotechnical Structural Analysis	\$544,620
S06019	Replace W3 Flushing Water Pumps	\$993,505
S06022	Building 326 Site Improvements	\$1,351,780
S06023	SS Drainage Channel Improvements	\$347,616
S06024	SS Building Roof Replacement	\$1,426,932
S06026	SS Building Roof Replacement - Phase II	\$830,285
S06027	Tunnels Concrete Rehabilitation	\$1,783,941
S06028	Central Control Building H2S Removal System	\$1,036,136
S06029	Med Voltage Switchgear Replacement	\$4,535,066
S06032	SS Rolling Stock & Other Equipment	\$11,259,041
S06033	Upgrade Medium & Low Voltage MCC's	\$4,389,966
S06036	Gas Compressor 5 DG Enhancements	\$54,514
P01003	Interplant Pipeline Improvements at South Shore	\$2,779,170
P01005	Interplant Pipeline Improvements - Phase II	\$11,880,777
P02002	West Shore Pipeline	\$10,177,647
P02003	LFG Pipeline Pigging Station	\$940,390
P02004	Landfill Gas System - Metro Landfill	\$8,379,961
	<b>Total Water Reclamation Facilities Projects</b>	<b>\$349,937,437</b>

ID	Project Title	Total Project Cost
C02008	Force Main Rehabilitations	\$2,825,775
C02010	Force Main Franklin Muskego Rehabilitation Project	\$1,005,534
C02011	Force Main Greenfield Park Rehabilitation Project	\$3,455,765
C03008	Underwood Creek Force Main Rehab	\$9,110,390
C03009	107th St. MIS Improvement	\$17,381,465
C03012	ZIC MIS Lining & Manhole Reconfiguration	\$1,113,295
C04007	Vliet Street/100 Street MIS Rehabilitation	\$3,500,545
C04010	Mill/Green Bay/Green Tree MIS Relief	\$56,528,646
C05041	CMIS - Auer to Hampton Phase II: H (C016)	\$8,222,998
C05051	Edgewood MIS/NSC Extension	\$5,721,046
C06019	Burnham St. 52nd to Electric Ave MIS Rehab	\$1,278,996
C06021	S. 27th Howard to Euclid MIS Rehab	\$5,024,874
C07010	CMIS - Harbor Siphons [HS]: A, B, D, E, G, & H	\$45,077,956
C07034	Menomonee River MIS Rehab	\$201,728
C07036	Siphons Assessment/Inspection	\$1,735,676
C07037	South Shore Force Main Assessment	\$967,481
C98041	Conveyance Pump Station Upgrade Phase II	\$5,205,028

C98042	SS Force Main Drainage Station Rehab	\$822,724
C98044	MIS Abandonment	\$725,650
C98045	Conveyance Gate Rehab	\$6,860,728
C98047	Access Hatch Covers	\$1,810,131
C98051	Conveyance Gate Rehab, Phase 3	\$3,681,874
C98052	Miscellaneous Sewer Rehab	\$612,769
C98053	Conveyance Gate Rehab, Phase 4	\$3,367,780
C98054	Force Main Cathodic Protection	\$745,693
C98055	Conveyance Equipment Replacement	\$600,000
I03003	CSO Rehab - Hawley Rd (C001)	\$856,570
I03009	CSOs 125 & 134 Backflow Devices	\$312,588
I06001	NS12 Collector System Improvements	\$4,000,126
K01008	SCADA Back-up Communication Systems	\$760,529
K01010	Wet Weather Peak Flow Measurement System	\$16,354,326
K01012	Conveyance SCADA Upgrade	\$7,253,889
K01013	Replace Level Sensors in ISS Structures	\$563,866
K01014	Replace Level Sensors in ISS Structures-Phase II	\$465,914
	<b>Total Conveyance Projects</b>	<b>\$218,152,355</b>
ID	Project Title	Total Project Cost
W10001	Milwaukee River Flood Mgt	\$44,920,001
<u>W10002</u>	<u>Estabrook Dam</u>	<u>\$2,000,000</u>
W11030	E - North 30th Street Corridor Wet Weather Relief - East	\$15,057,419
W11031	W - North 30th Street Corridor Wet Weather Relief - West	\$23,065,913
W13001	Indian Creek (W020) Flood Management	\$7,228,994
W13002	Indian Creek Improvements	\$75,000
W20003	Lower Wauwatosa Flood Control & Restoration Floodproofing	\$29,663,549
W20004	Milwaukee County Grounds (W017) Detention Basins	\$89,620,832
W20018	Concordia Avenue	\$4,924,409
W20020	Menomonee Valley Flood Mgt (Falk)	\$980,919
W20021	Menomonee River Stream Management - CR	\$5,930,000
W20023	Phase II Menomonee River Stream Mgt	\$3,179,897
W20025	Removal of 5 Low Gradient Barriers	\$1,477,787
W20027	Western Milwaukee Phase 2A	\$2,270,870
W20028	Western Milwaukee Phase 2B	\$21,961,581
W20029	Western Milwaukee Real Estate & Environmental Assessment	\$8,442,595
W20031	Menomonee River Estuary Study	\$86,527
W21005	Phase I - Underwood Creek Reach 1 - CR	\$4,517,340
W21006	Phase II - Underwood Creek Reach 1, Phase II - CR	\$7,786,491
W21007	Underwood Creek Reach 2 - CR	\$16,114,430
W21008	Underwood Creek Reach 1 Phase II Wetland	\$4,570
W22001	Underwood Creek S. Branch, Reach 1 - CR	\$12,617,226
W24005	Honey Creek Watercourse Mgmt. Plan & BMPs	\$295,709
W24006	Honey Creek USACE Habitat Improvement Feasibility Study	\$600,001
W24008	Honey Creek Streambank Stabilization	\$2,000,001
W26004	Grantosa Parkway	\$4,837,942
W28001	Schoonmaker Creek	\$10,001,638
W28002	Daylighting Schoonmaker Creek	\$5,528,092
W34001	W. Branch Root River Flood Management	\$490,990
W40002	KK River Flood Management - Mainstem Work (W026) - CR	\$78,898,782
W40007	KK River Reach 3 - CR	\$10,688,428
W40008	KK River S. 6th to S. Chase Flood Mgt	\$5,814,485
W40010	KK River Watershed	\$1,965,900
W40011	KK River I-94 to Becher	\$7,563,474
W41001	KK River Flood Management - Lyons Creek (W026)	\$13,422,338
W45002	Wilson Park Creek Reach 3 - CR	\$18,658,521
W50005	Oak Creek Flood Management - Floodproofing/Acquisition	\$6,610,361
W50006	Oak Creek Watershed Restoration Plan	\$394,586

W62002	Burnham Canal	\$8,779,469
W91001	Phase II Corridor & SEWRPC Studies	\$2,765,012
W96001	Fresh Coast Implementation	\$8,890,494
W97003	Working Soils® Program & Milwaukee River Watershed Conservation Partnership (MRWCP)	\$3,201,585
	<b>Total Watercourse &amp; Flood Management Projects</b>	<b>\$49,34,334,158</b>

ID	Project Title	Total Project Cost
M01011	NFPA Study	\$730,566
M01012	Milw River Flushing Station Building Rehab	\$906,134
M01016	Parking Lot Replacement at 13th & College	\$547,470
M01019	Safe Atmosphere Monitoring	\$1,280,785
M01024	ADA Improvements to HQ & Lab	\$284,000
M01023	Wharf Wall Improvements	\$1,705,266
M01027	Reconfigure 2nd Floor	\$65,000
M01026	HQ & Lab Heat & Power Generation System	\$510,223
M01028	Laboratory Fume Hood Removal	\$88,500
M01029	North HQ Wharf Wall Evaluation	\$174,927
M01030	Headquarters and Laboratory Office Remodel and Reconfiguration	\$330,000
M01031	Replace Laboratory Chiller	\$200,000
M03016	Post 2020 FP Implementation Evaluation & Planning	\$34,960,580
M03028	Corridor Study, Phase 4	\$4,987,447
M03029	Water Quality Studies	\$6,031,676
M03036	Continuous Water Quality Monitoring Stations	\$319,232
M03037	2050 Facilities Planning - Ultimate Build-out	\$8,961,033
M03042	Real Time WQ Monitoring Stations	\$1,890,397
M03043	Greenhouse Gas Planning Study	\$1,618,308
M03048	Regional Green Roof Initiative	\$4,992,395
M03051	Alternative Energy Planning	\$980,460
M03059	TMDL Studies	\$1,885,784
M03060	Phosphorous Reduction Demo	\$439,766
M03062	Integrated Regional Stormwater Mgt Plan	\$2,254,838
M03063	Private Lateral Inspection and Engineering	\$9,810,188
M03064	Fresh Coast Green Solutions	\$8,140,874
M03072	Energy Plan	\$599,642
M03074	MMSD Force Main Condition Assessment	\$400,827
M03088	Corridor Study, Phase 5	\$2,238,845
M03089	Bacteria BMP	\$45,574
M03091	Ad Hoc Water Quality Studies 2017-2021	\$6,479,624
M03092	Regional Resiliency Infrastructure Plan	\$750,000
M06011	Information Technology Software Systems	\$419,895
M06012	Network Equipment Replacement	\$599,252
M06013	Capital Program Management System	\$1,485,899
M06014	WRF Building Information Modeling	\$742,808
M06015	Real Estate Software	\$150,000
L090002	Replacement Laboratory Equipment	\$387,590
	<b>Total Other Projects</b>	<b>\$108,395,805</b>