



Green Bonds

Project Expenditure Report

as of June 30, 2023



Metropolitan Water Reclamation District of Greater Chicago

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Front Cover: Rock anchors and drain holes provide additional stability to key blocks of the rock wall at the Thornton Rock Dam.

Overview

The Metropolitan Water Reclamation District of Greater Chicago (MWRD) began to issue Green Bonds in 2014 to allow investors to invest directly in bonds which specifically or partially fund environmentally beneficial capital projects undertaken by the agency. Since then, the MWRD has issued nearly \$473 million in Green Bonds to fund a variety of sustainability-focused projects, including streambank stabilization efforts, construction of a phosphorus recovery facility, and a capital improvements project to improve energy efficiency and eliminate air pollution at various facilities. Green Bonds are secured by the full faith and credit of the MWRD, and therefore, holders of the bonds do not assume any specific project-related risk.

Green Bonds Issuance	Amount (millions)	Status
December 2014	\$ 225	fully expended
June 2016	104	partially expended
December 2021	144	partially expended
TOTAL: \$473		million

Four Categories of the MWRD’s Green Bonds

1. Tunnel and Reservoir Plan (TARP)

The MWRD’s innovative TARP or “Deep Tunnel” system is designed to reduce flooding and pollution caused by combined sewer overflows (CSOs). TARP was adopted in 1972 as a comprehensive pollution and flood control program; today it provides relief for approximately 3.75 million people living in a 360-square-mile area of combined sewer systems, collecting both sanitary sewage and stormwater. It is one of the country’s largest public works projects for pollution and flood control. The primary goals of TARP are to protect Lake Michigan – the area’s primary source of drinking water – from polluted backflows; clean area waterways; and provide an outlet for floodwaters to reduce basement flooding. Since it went online in 1985, the tunnel portion of TARP has reduced CSO pollution in our rivers by about 85%. Since the Thornton Composite Reservoir (TCR) went into service in

late 2015 and Stage 1 of the McCook Reservoir went into service in late 2017, the percent of CSOs captured has risen, and the amount of CSO volume has declined; this can be attributed to the addition of the reservoirs. TARP captures the heavily polluted first flush of combined sewage from storms and continues to capture diluted sewage mixed with stormwater throughout each storm until capacity is reached. The water captured by the TCR is eventually pumped to the Calumet Water Reclamation Plant for treatment, and the water captured by the McCook Reservoir is eventually pumped to the Stickney Water Reclamation Plant. In 2022, the MWRD pumped back 55.1 billion gallons of water for treatment from the tunnels and reservoirs, and even more water will be captured when McCook Reservoir Stage II comes into service.

(continued)

As a result of these water quality improvements, aquatic life in waterways has flourished. The MWRD conducts fish monitoring periodically throughout its service area, which includes the Chicago, Calumet, and Des Plaines River Systems. The number of fish species found in the Chicago Area Waterway System (CAWS) has drastically increased since the 1970s when monitoring of the fish population first began. From 10 known species in 1974, that number has ballooned to 77 through 2022, including 60 that have been found in the CAWS since 2000. Thanks

in part to advancements of TARP and MWRD water treatment operations, the waterways have experienced new life, a surge in recreational activity, and economic development.

Performance metrics for TARP projects include tracking the reduction in CSOs discharged into the Chicagoland waterways, total CSO captured in the reservoirs during rain events, reduced frequency of diverting polluted river water to Lake Michigan, and the quantity and diversity of fish species in the waterways measured over time.

2. Stormwater Management Program Projects

As the stormwater management authority for Cook County since 2004, the MWRD has been working to address streambank erosion and flooding issues throughout the county. In 2014, Phase II of the MWRD's Stormwater Management Program was initiated to address local drainage problems, develop stormwater master plans across Cook County, and establish a program for purchasing flood-prone and flood-damaged property on a voluntary basis. Through partnerships with local

communities and other government organizations, the MWRD has completed numerous stormwater projects to protect homes and businesses from erosion and flooding issues.

Performance metrics include linear feet of streambank stabilized, number of structures benefiting from flood control projects, and dollar value of flood damages prevented.

3. Resource Recovery Projects

By embracing sustainable and resilient practices, the MWRD is dedicated to fostering a healthy environment while also building a strong financial foundation. It successfully completed the construction of a phosphorus recovery facility to recover phosphorus to be sold as a valuable fertilizer. In addition to phosphorus recovery, the MWRD is actively engaged in enhancing the Lockport Powerhouse which produces green

electricity that is sold to the grid. It is also currently exploring innovative projects on process efficiency to maximize effluent water reuse, biogas production, and biogas utilization from anaerobic digestion processes.

The MWRD has established performance metrics, tracking progress toward energy neutrality and greenhouse gas reduction.

4. Water Reclamation Plant Expansions and System Improvements

The MWRD's seven water reclamation plants clean an average of 1.2 billion gallons of wastewater each day. The total wastewater treatment capacity is over two billion gallons per day. The MWRD's Capital Improvements Program includes replacing, remodeling, completing, altering, constructing, and enlarging water reclamation plants, water quality

improvement projects, or flood control facilities, and constructing pumping stations, tunnels, conduits, intercepting sewers, and outlet sewers. It also includes purchasing air pollution equipment and property as well as covering engineering expenses for the design and construction of these various projects. *(continued)*

Performance metrics include optimization of aeration processes to reduce energy consumption, water reuse by converting current use of potable

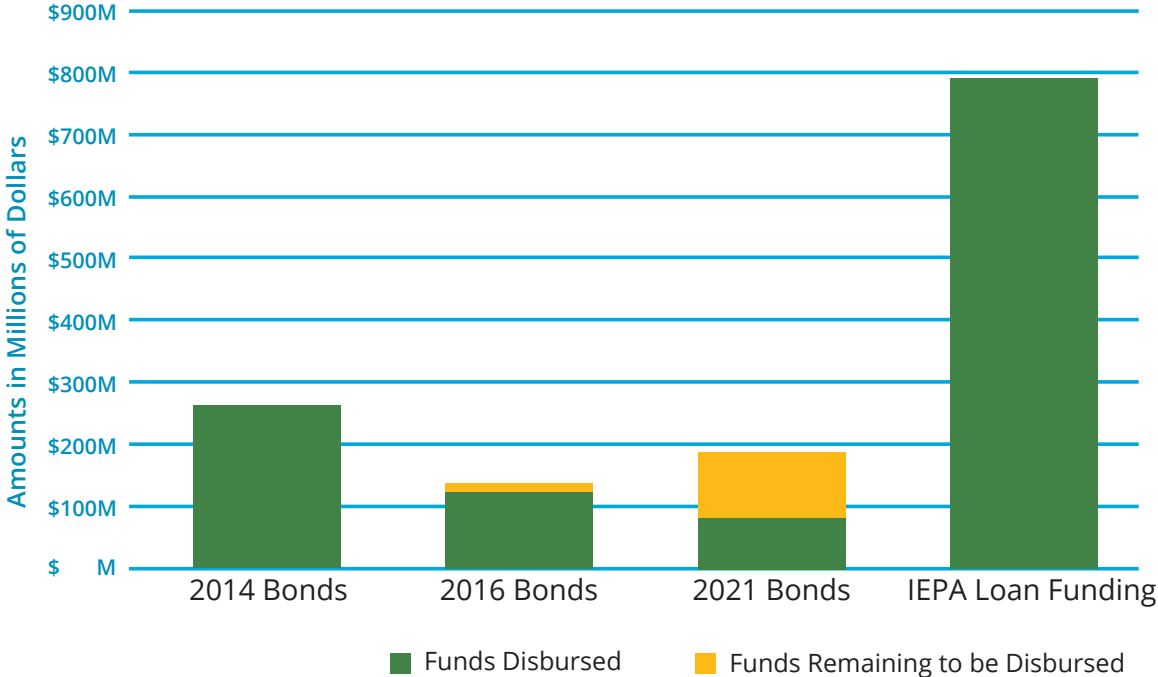
water in plant processes, and reduction in greenhouse gas emissions.

Use of proceeds

The following is a summary of the programs and projects funded by the Green Bonds as of June 30, 2023. In some cases, the Green Bonds may only provide partial funding for the specific program and/or project, or proceeds from both bond sales may be utilized to complete the funding of larger scale projects. Additional State Revolving Loan funding may have been, or will be, provided for use in funding the projects. All Green Bond proceeds have been segregated for use for the purposes

identified in the overview section of this report. Until the proceeds are expended, specific projects may be added or deleted. Any projects added will comply with the eligible categories described in this report. See the Appendix to this report which details total project spending to date for the bonds that have not been fully expended. This report will be updated annually for each series of the bonds until all bond proceeds have been disbursed.

Green Bond Funding
January 1, 2015 through June 30, 2023



Highlighted Projects

The status and description of some of the green bonds projects are provided below. Please see the Appendix for Complete Project Spending by Bond Sale for the bonds that have not been fully expended.

Melvina Ditch Reservoir Improvements

Storm events prior to these improvements had exceeded the capacity of the Melvina Ditch Reservoir, at 6500 W. 87th St., Burbank, resulting in flooding in nearby neighborhoods. Through public meetings, consensus was met to expand the reservoir within the existing reservoir footprint on MWRD property and by acquiring 15 nearby properties around the perimeter of the reservoir.

The expanded reservoir was designed to increase its holding capacity by nearly 64 million gallons, requiring the MWRD to remove more than 80,000 tons of dirt. The project also modified the pumping station to accommodate the expansion. A new emergency overflow weir was installed to prevent the reservoir from overtopping. Additional work on the reservoir included the installation of a stormwater chamber and culverts at the outlet of the pumping station. Construction extended to 87th Street to install the culverts and replace any disturbed utilities. Storm pumps were also removed and serviced, and impellers were lengthened. The water from the reservoir is now conveyed to an underground culvert that stretches from 87th Street to 95th Street where it empties into the Melvina Ditch.

The reservoir expansion was completed in 2023 and represents the culmination of an engaging public process that relied on the input of Burbank and Oak Lawn residents to

work toward a solution to severe flooding in their communities. The MWRD also worked with the Southwest Mayors Conference and Stickney Township to ensure multiple partners' flooding concerns were addressed. Combining this community outreach with highly skilled engineering work and funding assistance from partners in Springfield, the project made a critical difference in the quality of life for local residents who have in years past dealt with flooded basements and streets. Downstream communities such as Bridgeview, Chicago Ridge, Worth, and Stickney Township will also benefit indirectly from the reservoir. The expanded reservoir makes a positive regional impact and addresses local and regional government initiatives to mitigate flooding in these communities; as a result, approximately 430 residential properties now have a reduced risk of flooding during storms. The \$20-million project, funded primarily by the MWRD, also received a grant from the state of Illinois through its Build Illinois Bond Fund.



The MWRD removed more than 80,000 tons of dirt to expand the Melvina Ditch Reservoir in Burbank to more than double its storage capacity from 54 million gallons to 117.3 million gallons. The \$20-million project, funded primarily by the MWRD, also received a grant from the state of Illinois through its Build Illinois Bond Fund. As a result of this project, approximately 430 residential properties in Burbank and Oak Lawn will have a reduced risk of flooding during storms.

Chemical Addition Backup System at SWRP



Construction of the chemical addition backup system showing placement of the chemical storage tanks at the Stickney Water Reclamation Plant.

For the past several years, the Stickney Water Reclamation Plant (SWRP) has utilized Enhanced Biological Phosphorus Removal (EBPR) to reduce phosphorus in the plant's effluent to well below the permitted value. All four aeration batteries currently have EBPR implemented. The SWRP also has a sidestream phosphorus recovery process which assists in removing concentrated phosphorus from the recycle flows within the SWRP and creates a useful fertilizer product that is then sold through an MWRD partnership.

On occasion, influent conditions at the SWRP are unfavorable for EBPR to be fully effective thus requiring the use of a chemical backup system. A temporary system was put into place in the Fall of 2021 and a permanent system is currently under construction. This permanent chemical phosphorus removal system will include five metal salt storage tanks and a series of pumps and piping for dosing the chemical to

the final tank influent conduits in each battery to precipitate out phosphorus.

Limitations on the discharge of phosphorus for the SWRP and the MWRD's other WRPs is reducing nutrient loadings to the local waterways and the MWRD will continue to explore solutions on this issue to make further improvements as needed.

Thornton Rock Dam Treatment



Installation of rock anchors on the rock wall at the Thornton Rock Dam.

As Hanson Material Service (HMS) continued mining operations in the Main Lobe of the Thornton Quarry on the south side of the Thornton Rock Dam, partially exposing the toe of the dam, the MWRD prepared an assessment of the stability of the rock dam and key blocks on the HMS side. Based on the results of this report, the United States Army Corps of Engineers requested the MWRD perform additional treatment and stabilization measures for select key blocks. One treatment measure included the drilling of 40 horizontal drain holes and installation of slotted pipe into select key blocks to reduce internal hydrostatic rock pressure. Another treatment measure included the installation of 36 high-capacity, post-tension, corrosion-protected rock anchors to lock select key blocks into the surrounding rock mass. Additionally, to allow for future monitoring of the stability of the rock dam during Thornton Reservoir fill and dewatering events, a web-based, digital monitoring system was installed around the perimeter of the rock dam to report piezometer and inclinometer readings from existing geotechnical instrumentation. This system allows the MWRD to monitor rock pressure and movement in real-time, in lieu of mobilizing staff and equipment to the rock dam to perform in-person readings. The project is substantially complete as of December 2023.

The next report will be prepared and posted to the MWRD’s website detailing capital expenditures through June 30, 2024.

Appendix

Project Spending Report

**2016 Series E
General Obligation Unlimited Tax Bonds (Alternate Revenue Source)
July 1, 2016 through June 30, 2023
\$50,000,000 Principal**

Project Name	Project Number	Estimated Total Project Cost	Spending 7/1/2016 - 6/30/2023	Estimated Useful Life of Project (years)
Addison Creek Reservoir <i>Excavation and installation of flood control reservoir in Bellwood; includes control structure, inlet structure, spillway, piping and a pump station. This will reduce overbank flooding to approximately 2,200 structures along Addison Creek and serve as compensatory storage for a channel improvement project.</i>	111863F	\$ 109,542,000	\$ 19,740,412	50
Melvina Ditch Reservoir Improvements <i>Expansion of the existing Melvina Ditch Reservoir; modification of the pump station to accommodate the reservoir expansion, and installation of a new emergency overflow weir to reduce the likelihood of reservoir overtopping and help alleviate flooding in Burbank and Oak Lawn.</i>	142633F	\$ 21,452,000	\$ 10,376,295	50
Buffalo Creek Reservoir Expansion <i>Expansion and modification of the existing Buffalo Creek Reservoir project identified in the Lower Des Plaines Detailed Watershed Plan, including relocating trails and bridges above the reservoir's inundation level, with approximately 107 structures to receive flood protection.</i>	133703F	\$ 9,678,900	\$ 8,191,850	50
Albany Park Stormwater Diversion Tunnel <i>Installation of a stormwater diversion tunnel to alleviate overland flooding in the Albany Park neighborhood in Chicago to reduce overbank flooding affecting 336 structures in the area.</i>	140663F	\$ 24,750,000	\$ 6,745,388	50
Addison Creek Channel Improvements <i>Improvements to channel conveyance and stabilization such as open channel, gabions, sheet piles, riprap, and stream clearing in Northlake, Melrose Park, Stone Park, Bellwood, Westchester, and Broadview.</i>	111873F	\$ 48,133,000	\$ 3,091,392	50
Des Plaines Land Acquisition <i>Purchase of 49 flood-prone homes along the Des Plaines River as part of a cost-sharing agreement with the City of Des Plaines to reduce flood hazard risk.</i>	16IGA11	\$ 3,625,000	\$ 2,422,183	100
Flood Control Project on Midlothian Creek in Robbins (Design) <i>Design of a wetland lake/park and outfall channel to the Cal-Sag Channel to provide a 100-year storm level of protection for the 137th St. and Kedzie Ave. Project Area in Robbins, Illinois.</i>	142533F	\$ 1,815,130	\$ 1,730,604	50
Lyons Levee Flood Control Improvements <i>Restoration, improvement, and modernization of the Lyons Levee to provide flood protection and prevent overtopping by events up to a 100-year design flood, which will protect the ComEd substation located east of Forest View and lower the risk of power disruptions or failures at Midway Airport and the Stickney Water Reclamation Plant.</i>	131993F	\$ 3,500,000	\$ 1,673,597	50
Other Projects			\$ 1,656,700	
Project Expenditures 7/01/2016 - 6/30/2023			\$ 55,628,421	91%

Principal Amount of Bonds	50,000,000
Original Issue Premium	10,545,322
Costs of Issuance	(131,789)
Fund Transfer of Investment Earnings	(2,000,000)
Investment Income	2,933,362
Available for Spending	61,346,895

Remaining Available for Spending \$ 5,718,474 9%

**2021 Series A
General Obligation Limited Tax Capital Improvement Bonds
September 1, 2020 through June 30, 2023
\$113,935,000 Principal**

Project Name	Project Number	Estimated Total Project Cost	Spending 9/1/2020 - 6/30/2023	Estimated Useful Life of Project (years)
Replacement of Tailrace Stop Logs Headrace LPPH <i>Design, fabrication, and installation of tailrace stop logs for Bays 1 and 2. Replacement of headrace gates, tailrace stop logs, and associated hoist systems.</i>	158303D	\$ 13,171,928	\$ 10,626,770	20
Phosphorus Removal, Liquid Facilities, Fox River Water Reclamation District <i>Improvements at the FRWRD Pagorski WRF to the existing activated sludge process to incorporate biological phosphorus (Bio-P) removal processes. Construction of two primary sludge fermenters; a Fermenter Control Building; six mixing basins; a primary effluent/return activated sludge pump station; an odor control system; a splitter box; a flowmeter/valve vault; and other associated equipment and modifications. In 1974, as required by the USEPA for grant funding, the District entered into a master agreement with the FRWRD for treatment of wastewater flow from the District's Poplar Creek Basin, which required the District pay an annual cost for treatment of that wastewater based on measured flow to the facility, and to contribute capital funding for FRWRD projects that are necessary to increase or improve FRWRD's ability to treat wastewater flow to its facility. Based upon the percentage of the total treated waste attributable to the Poplar Creek Basin, the District is responsible for 36.20% of the Phosphorus Removal Liquid Facilities project. (Liquid stream projects have a larger percentage cost share, since solids projects also treat solids from other FRWRD facilities.)</i>	181GA36	\$ 9,761,692	\$ 5,954,145	20
Chemical Addition Backup System. SWRP <i>Construction of a secondary phosphorus removal system to ensure uninterrupted compliance with NPDES permit limits.</i>	191593P	\$ 7,940,000	\$ 4,134,134	20
Westside Circular Primary Tanks & Aerated Grit Tanks, SWRP - Professional Services <i>Consultant design services for the design of nine 160-foot diameter primary settling tanks and six 132-foot aerated grit tanks, associated support facilities, service tunnels, and conduits.</i>	041283P	\$ 8,335,118	\$ 3,046,673	20
Roof Replacement Lue Hing Complex, SWRP <i>Replacement of roof areas 1, 2, 3, 5, and 6 of the Monitoring & Research (M&R) laboratory at the Stickney WRP. Project scope includes complete tear-off of the existing roof membrane, replacement of the roof top equipment that has exceeded its useful life, removal of obsolete roof top equipment, and additional work associated with the M&R's east addition at SWRP.</i>	171353V	\$ 10,909,000	\$ 2,931,922	20
Structural Repairs Roof Replacement 95th Street, PS <i>Removal of all roofing and insulation at the upper and lower roof levels followed by installation of a steel roof deck. Repair or replacement of corroded steel roof beams at the lower roof level to restore lost structural capacity. Removal and replacement of corroded roof purlins at the upper roof level.</i>	172763D	\$ 4,600,000	\$ 2,439,436	20
Furnish, Deliver & Install Disc Filters, HPWRP <i>Replacement of two traveling filter beds with a design capacity of 2.5 MGD each, with two new disc filters having an increased capacity of 12 MGD each. Installation of two service water pumps along with three chemical tanks & containment for disinfection.</i>	2070131	\$ 3,600,000	\$ 2,330,896	20
Gravity Concentration Tank Rehabilitation, CWRP <i>Removal and replacement of four sludge concentration tank collector systems, miscellaneous piping, and related electrical work.</i>	1880332	\$ 2,343,420	\$ 2,262,420	30
Sludge Pumping Improvements, Various Locations <i>Replacement of existing screw-centrifugal pumps with non-clog centrifugal pumps in the waste activated and primary sludge pumping streams at the Stickney WRP; higher capacity sludge pumping systems and sludge piping replacement at the O'Brien WRP; and installation of variable frequency drives for selected pumping systems at the Calumet WRP.</i>	2160331	\$ 8,291,115	\$ 1,864,095	20
Rehabilitation of Elevator Shafts, MSPS <i>Rehabilitation of the Mainstream Pumping Station's six north and south elevator main and ventilation shafts, dewatering shaft, and discharge shaft to address groundwater infiltration in the shafts.</i>	181423H	\$ 2,379,331	\$ 1,861,451	20+
Furnish, Deliver & Install Three Fine Screens, KWRP <i>Replacement of three fine screens with new screens that have narrower openings to remove more debris; rehabilitation of grit drag out tanks.</i>	1870331	\$ 1,940,000	\$ 1,673,048	20
Furnish, Deliver & Install Replacement Gearboxes-SEPA's 2, 3, 5 <i>Installation of replacement gearbox and associated upper and lower bearings for the Sidestream Elevated Pool Aeration (SEPA) Stations #2, #3, #4, and #5 in the Calumet Service Area to help maintain the reliability of these stations and ensure the District continues to meet IEPA waterway dissolved oxygen requirements.</i>	2080131	\$ 1,898,000	\$ 1,622,290	20

**2021 Series A
General Obligation Limited Tax Capital Improvement Bonds
September 1, 2020 through June 30, 2023
\$113,935,000 Principal**

Project Name	Project Number	Estimated Total Project Cost	Spending 9/1/2020 - 6/30/2023	Estimated Useful Life of Project (years)
Phosphorus Removal, Struvite Facilities, Fox River Water Reclamation District <i>Improvements at the FRWRD Pagorski WRF to reduce the phosphorus recycled within the liquid stream by precipitating it in the form of struvite within the digested biosolids. Construction of a new Struvite Building with a below-grade mixing pump station; fluidized-bed struvite reactor; and odor control system. In 1974, as required by the USEPA for grant funding, the District entered into a master agreement with the FRWRD for treatment of wastewater flow from the District's Poplar Creek Basin, which required the District pay an annual cost for treatment of that wastewater based on measured flow to the facility, and to contribute capital funding for FRWRD projects that are necessary to increase or improve FRWRD's ability to treat wastewater flow to its facility. Based upon the percentage of the total treated waste attributable to the Poplar Creek Basin, the District is responsible for 23.97% of the Phosphorus Removal Struvite Facilities project.</i>	181GA35	\$ 2,635,071	\$ 1,555,463	20
S2 Enhanced Biological Phosphorus Removal Pilot Study, CWRP <i>Pilot study of Sidestream Enhanced Biological Phosphorus Removal (S2EBPR) using Return Activated Sludge (RAS) fermentation to assist with EBPR at a pilot scale level; installation of related pumps and mixers.</i>	182483P	\$ 1,904,726	\$ 1,444,065	5
Salt Creek Intercepting Sewer Two Rehabilitation, SSA <i>Rehabilitation of approximately 32,800 feet of intercepting sewer; rehabilitation of 81 manholes and two junction chambers; rebuilding and raising of 11 manholes; construction of one manhole; and modifications to control structure.</i>	061553S	\$ 44,502,077	\$ 1,388,267	50
Civil Consulting Support Services (2017-19) <i>Professional civil engineering support services to assist on design and post-award-related issues of capital projects on an as-needed basis.</i>	168363S	\$ 2,500,000	\$ 1,243,357	20
Energy Performance Projects, SSA (SS) <i>Upgrade of HVAC controls at the Mainstream Pumping Station, the Stickney, O'Brien, Kirie, Egan and Calumet WRPs; and upgrade of the interior lighting with LED fixtures at the Mainstream Pumping Station and the Stickney WRP.</i>	1990131	\$ 5,368,487	\$ 1,233,474	20
Switchgear & Motor Control Center Replacement, OWRP <i>Replacement of Process Control Building 480-volt switchgear, Aerated Grit Motor Control Center (MCC), Scum Concentration MCC, Battery D MCC, and Process Control MCC 19A and 19B; building additions to allow for relocation of Aerated Grit MCC and Scum Concentration MCC.</i>	170803E	\$ 3,577,000	\$ 1,174,307	20
Other Projects			\$ 6,760,429	
Project Expenditures 9/01/2020 - 6/30/2023			\$ 55,546,642	38%
		Principal Amount of Bonds	113,935,000	
		Original Issue Premium	29,011,224	
		Costs of Issuance	(235,206)	
		Investment Income	1,769,981	
		Available for Spending	144,480,999	
Remaining Available for Spending			\$ 88,934,357	62%

**2021 Series B
General Obligation Unlimited Tax Capital Improvement Bonds
December 1, 2021 through June 30, 2023
\$30,000,000 Principal**

Project Name	Project Number	Estimated Total Project Cost	Spending 12/1/2021 - 6/30/2023	Estimated Useful Life of Project (years)
Decommissioning Thornton Transitional Reservoir <i>Excavation of existing rock plug in Thornton Creek Connection Tunnel, installation of East and West tunnel plugs in Thornton Creek Diversion Tunnel, placement of mass concrete fill between East tunnel plug and connection tunnel, installation of lining and contact grouting in portions of the connection tunnel and diversion tunnel, and related work to reroute Thornton Creek Overflow to the Thornton Composite Reservoir.</i>	152664H	\$ 25,314,000	\$ 15,728,780	50
Thornton Rock Dam Treatment, CSA <i>Installation of key-block stabilization measures on the south side (HMS Main Lobe) of the Thornton Rock Dam to meet Army Corps of Engineers requirements; treatment measures including drilling of horizontal drain holes into select key block faces to help alleviate internal rock pressure and the installation of high-capacity, corrosion-protected rock anchors to anchor select key blocks into the surrounding rock mass; and installation of geotechnical instrumentation and monitoring devices and related equipment.</i>	212604H	\$ 6,290,308	\$ 5,607,358	50
McCook Reservoir Expanded Stage 2 Slope Stabilization and Retaining Walls, SSA <i>Construction of a soil nail retaining wall and slope stabilization work on the McCook Reservoir. This will provide sufficient mining reserves to achieve the intended capacity of 10 billion gallons as part of the District's Tunnel and Reservoir Plan to prevent flooding and pollution from combined sewer overflows.</i>	161254F	\$ 8,210,092	\$ 5,048,454	50
McCook Reservoir Vulcan Agreement Hard Costs, SSA <i>Agreement with Vulcan to mine out a rough hole at the site of the McCook CUP Reservoir.</i>	73161EH	\$ 94,717,000	\$ 2,702,127	50
Other Projects			\$ 924,340	
Project Expenditures 12/01/2021 - 6/30/2023			\$ 30,011,059	75%
Principal Amount of Bonds			30,000,000	
Original Issue Premium			9,836,177	
Costs of Issuance			(62,116)	
Investment Income			381,982	
Available for Spending			40,156,043	
Remaining Available for Spending			\$ 10,144,984	25%

Back Cover: The Chicago Riverwalk attracts all types of critters, both wild and domesticated, in the warm months and even during winter. The MWRD's work to protect water quality has helped the Riverwalk thrive as a sight-seeing destination featuring views of the Chicago River and surrounding architecture.

**Illinois Environmental Protection Agency Funding
State Revolving Funds Series General Obligation Bonds
July 1, 2022 through June 30, 2023**

Project Name	Project Number	Estimated Total Project Cost	Estimated Useful Life of Project (years)	Spending 7/1/2022 - 6/30/2023	Spending 7/1/2018 - 6/30/2022	Five Years Cumulative Spending 7/1/2018 - 6/30/2023
Northside Sludge Pipeline Replacement - Section 1, NSA <i>Replacement of Section 1 of the existing North Side Sludge Pipeline with 19,000 feet of 20-inch diameter force main. Construction of air relief, blow-off and clean-out of structures; and rehabilitation of 43 existing structures located in the Villages of Skokie and Lincolnwood and the City of Chicago.</i>	070273S	\$ 28,481,425	50	\$ 9,808,560	\$ 9,500	\$ 9,818,060
Furnish, Deliver & Install Six Disc Filters, EWRP <i>Replacement of gravity sand filter beds with higher-capacity disc filters to remove more suspended solids.</i>	1870231	\$ 9,452,316	20	\$ 5,601,692	\$ -	\$ 5,601,692
McCook Reservoir Des Plaines Inflow Tunnel <i>Construction of an approximately 20-foot diameter tunnel connecting the Des Plaines tunnel directly to the McCook Reservoir including a gate shaft, primary gate, backup gate, gate control building, temporary construction access shaft, tunnel portal and highwall stability measures, and an energy dissipation apron with baffle blocks. Demolition of an existing concrete tunnel plug to create a live connection to the existing Des Plaines Tunnel System and future McCook Reservoir. Installation of reservoir level and tunnel inflow instrumentation, duct banks, conduits, wiring, lighting, electrical equipment, and permanent perimeter fencing.</i>	131064F	\$ 112,565,349	100	\$ 4,903,369	\$ 34,180,039	\$ 39,083,408
Control Boiler Facility/Electrical Updates, HPWRP <i>Removal of two natural gas boilers and addition of five new boilers (two natural gas and three digester gas/natural gas) in the Pump and Blower Building. Removal of five digester gas/natural gas boilers from the Digester Complex. Completion of associated work including mechanical piping, electrical, control, civil and structural work needed to provide hot water for process and building heating demands. Replacement of digester gas piping. Removal and replacement of all electrical equipment, such as motor control center, motors, conduit, gas alarm system, fire alarm system, lighting, etc., with explosion-proof equipment in the classified areas to meet National Fire Protection Association 820 requirements.</i>	195423M	\$ 13,760,000	25	\$ 2,780,239	\$ -	\$ 2,780,239
Furnish, Deliver & Install Coarse Screens, SWRP <i>Removal of existing climber-style southwest coarse screens at Stickney WRP and installing new chain and sprocket-style coarse screens. Replacement of existing coarse screens with more heavy-duty, reliable, chain and sprocket-style screens to significantly reduce maintenance costs and operational issues.</i>	2090331	\$ 6,000,000	20	\$ 2,496,907	\$ 100,000	\$ 2,596,907
Mainstream TARP Pumps Rehabilitation <i>Overhaul TARP Pumps 1 and 3 in the South Pump House and Pump 5 in the North Pump House of the Mainstream Pumping Station, including the associated motors and discharge cone valves & actuators, to restore capacity and reliability; project requires furnishing and installing new parts, refurbishing existing salvageable parts, replacing motor exciter panels, and upgrading pump control components.</i>	181443M	\$ 23,380,000	20	\$ 2,485,076	\$ 1,809,345	\$ 4,294,421
Digester Sludge Heating System Upgrades <i>Replace digester hot water boilers with steam to hot water converters, replace heat exchangers, clean digesters and provide new gas mixing systems within digesters. Project will result in increased efficiency, increased gas production and remove equipment not in compliance with current codes.</i>	182773M	\$ 25,499,000	50	\$ 2,267,373	\$ 23,065,049	\$ 25,332,422
Rehab of Steel Spandrel Beams of Pump & Blower House OWRP <i>Rehabilitation of O'Brien WRP Pump and Blower House building roof, steel frame beams, and columns embedded in the masonry wall, localized roof deck; roof slope remediation; full roofing membrane and insulation replacement; full masonry and flashing rehabilitation at roof parapet walls; localized windows and exterior doors rehabilitation; localized tuckpointing; and other rehabilitation work associated or incidental to a facade/roof to extend the building life span for another 50 to 90 years.</i>	150693D	\$ 21,730,000	50	\$ 1,252,146	\$ -	\$ 1,252,146
Other Projects				\$ 2,303,077	\$ 117,782,300	\$ 120,085,377
Project Expenditures by Period				7/01/2022 - 6/30/2023	7/01/2018 - 6/30/2022	Cumulative Expenditures
				\$ 33,898,439	\$ 176,946,233	\$ 210,844,672



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