GUIDING OUR FUTURE

The North Texas Municipal Water District (NTMWD) is governed by a board of directors comprised of appointed representatives from the 13 Member Cities we serve. Board members serve two-year terms and are responsible for appointing an executive director, who oversees NTMWD’s day-to-day operations in accordance with all state and federal laws, regulations and board policies.

Our management team ensures we maintain compliance with requirements for water treatment and delivery, wastewater treatment and management, solid waste disposal as well as develop and execute strategic planning and improvement projects.

BOARD OF DIRECTORS JUNE 2015 TO MAY 2016

Front Row, Seated (L to R)
Darwin Whiteside Past President (Royse City)  Bob Thurmond Secretary (Wylie)  Terry Sam Anderson Vice President (Mesquite)  Joe Joplin President (McKinney)  Tom Kula Executive Director

Back Row, Standing (L to R)
Bobby Robinson (Mesquite), James Kerr (Allen), Wayne May (Farmersville), Shep Stahel (Plano), Jim Mellody (Royse City), Richard Peasley (Frisco), John Murphy (Richardson), Don Gordon (Garland), Marvin Fuller (Wylie), Jack May (Garland), Patrick Nicklen (Princeton), John Sweeden (Richardson), Phil Dyer (Plano), Lynn Shuyler (Frisco), Darrell Grooms (Forney), Joe Farmer (Allen), Charles McKissick (McKinney), Larry Parks (Rockwall), Don Cates (Forney), Richard Sheehan (Princeton)

EXECUTIVE TEAM 2015–2016

Tom Kula Executive Director
Joe Stankiewicz Deputy Director, Engineering, Capital Improvement Programs / Planning
Mike Rickman Deputy Director, Operations, Maintenance & Technology
Judd Sanderson Deputy Director, Finance & Personnel

Billy George, P.E. Assistant Deputy Director, Water
Jenna Covington, P.E. Assistant Deputy Director, Wastewater
Jeff Mayfield, P.E. Assistant Deputy Director, Solid Waste
Cesar Baptista, P.E. Assistant Deputy Director, Engineering

R.J. Muraski, PMP Assistant Deputy Director, Capital Improvement Programs / Planning
Rodney Rhoades Assistant Deputy Director, Finance & Personnel
Jim Shirley Chief Information Officer

Janet Rummel Public Relations Manager
Brian Brooks Process Improvement Advisor
Melisa Fuller Executive Assistant

Dave Patton Maintenance Officer
MESSAGE FROM OUR EXECUTIVE DIRECTOR

CELEBRATING SIX DECADES OF SERVICE

2016 marks 60 years since the North Texas Municipal Water District (NTMWD) first began delivering vital water to the region. The District was created in 1951 by state legislation following one of the worst recorded droughts in Texas’ history. Visionary leaders from 10 cities came together with a common goal: they needed water.

The communities banded together and step-by-step they assembled a regional water system. They started by collectively urging and eventually convincing the U.S. Army Corps of Engineers to construct Lavon Lake to serve as a storage vessel in addition to its original purpose of flood control—a concept that, at that time, was virtually non-existent in Texas.

As the Dallas Times Herald wrote after the groundbreaking for Lavon Lake, “Other improvements have their places, but the foundation of them all is a dependable water supply.” When the founders succeeded in being able to store water in Lavon Lake, they undertook the construction of the pipes and systems needed to transport the water and then built a plant to treat it. They looked ahead and installed pipes that were larger than needed at the time and built a treatment plant that could be later expanded to accommodate inevitable growth.

Our first Wylie treatment plant, which initially treated 20 million gallons of water per day (MGD), came online in November 1956. It provided water to about 30,000 people living in Farmersville, Forney, Garland, McKinney, Mesquite, Plano, Princeton, Rockwall, Royse City and Wylie. Later, the cities of Richardson, Allen and Frisco also became members and the number of North Texas communities served by the District has continued to grow.

Six decades later, the original Wylie plant is still running and is now one of six water treatment plants that are capable of treating up to 806 MGD. Today, the District serves over 1.6 million people in up to 90 communities. The regional water system these communities put in place has served as an economic engine for the north Texas region. Access to water has allowed these communities to grow and thrive. And with that development, came the need for more services. At the request of our members, in 1972 the District created a regional wastewater system and in 1980 we started managing the disposal of solid waste.

PLANNING FOR THE FUTURE

In 2015, we looked ahead once more and developed a strategic plan that is serving as our roadmap for the coming years. The plan covers our commitment to continuing to provide superior services and maintaining the infrastructure that will allow us to
sustain reliable delivery. We will plan to ensure these services are secure for future generations. We will maintain strong relationships with our member cities, customers, partners and the public. And, we will accomplish that with a team of employees who are cared for and work in a safe environment.

Today, we find ourselves in the same position as our founders did 60+ years ago. Our region needs more water and we need a new reservoir in which to store it. The proposed Lower Bois d’Arc Creek Reservoir (LBCR) is needed to meet our region’s water demands through 2040. It will be the first major reservoir constructed in 30 years in Texas. The permitting of LBCR advanced in 2016 through our ongoing work with federal agencies, as well as bi-partisan support from U.S. Congressional leaders who understand the importance of the project for the future of North Texans. We are working diligently toward obtaining final approvals by early 2018 and planning for the reservoir to begin operating by 2022.

We also advanced capital improvements necessary to meet new regulations, maintain and rehabilitate aging infrastructure, and to keep pace with growth for all three of our services. To address these needs, the District’s Capital Improvement Program is increasing over the next five years. To manage these costs, we are continuously improving processes and seeking efficiencies.

SERVICES OF VALUE

Despite these investments, our services remain a good value. Even with rate increases to fund growing system costs, we charge our cities about a quarter of a penny per gallon to acquire, store, transport, treat, test and deliver the water. This annual report acknowledges the hard work of those who have served the district for six decades. Without their foresight and planning, north Texas would not be the vibrant area it is today. We highlight our accomplishments and challenges over the past fiscal year and share the plans we have to continue a tradition of regional service through unity.

Thomas Kula | Executive Director

VISION

» Regional service through unity: meeting our region’s needs today and tomorrow.

MISSION

» To provide high-quality and dependable water, wastewater and solid waste services in a cost-efficient manner.

GOALS

» Provide superior water, wastewater and solid waste services today.
» Secure the future for water, wastewater and solid waste supplies and services.
» Maintain strong relationships with our partners and those we serve.
» Maintain our infrastructure to provide reliable service today and tomorrow—through emphasis on preventive/predictive maintenance.
» Take care of our people—develop our leaders and workforce, hire and retain the right people, build our bench and be safe.
WATER is pumped from lakes
PIPED to member cities/customers' homes, schools, businesses
CLEANED/TREATED at NTMWD treatment plants
TESTED at NTMWD laboratory to make sure it’s safe
WATER is tested at NTMWD laboratory to make sure it’s safe

GETTING WATER TO YOU
Shared Regional System Serves 90 North Texas Communities
For 60 years, NTMWD has delivered dependable, high-quality water to North Texans. We manage a large and complex system that serves 1.6 million people living in a service area of 2,200 square miles across 10 counties—an area twice the size of Rhode Island. The availability of water has enabled these communities to prosper.

We transport water from six lakes and a man-made wetlands reuse project to one of six water treatment plants. The Wylie campus houses our original treatment plant, and three other treatment facilities with the capacity to treat up to 770 MGD. Two other treatment facilities, located near Lake Tawakoni and in the City of Bonham, bring the total regional system treatment capacity to 806 MGD. NTMWD operates one of the largest advanced treatment facilities using ozone disinfection in the country.

National news on lead contamination in Flint, Michigan, and questions about Chromium 6 and other contaminants in public water systems have raised questions about the safety of north Texas water. In 2016, we opened the doors of our facilities and laboratory to media and public officials to show them how our water is tested rigorously for these constituents and others. We routinely perform a range of water quality tests before, during and after the treatment process to ensure the water is high quality and safe to drink. Our state-certified laboratory monitors and tests an average of 685 samples every day or 250,000 annually. We meet or exceed regulatory and health standards set by the Texas Commission on Environmental Quality (TCEQ) and the Environmental Protection Agency (EPA). NTMWD water quality reports are posted monthly on our website.
Primary Sources of Water:
- Lavon Lake
- Jim Chapman Lake
- Lake Texoma
- Lake Fork
- Lake Tawakoni
- Lake Bonham
- East Fork Water Supply/Reuse Project

Water Fast Facts:
Capacity to treat 806 million MGD
97.3 billion gallons of treated water delivered per year
$351+ million in water system construction contracts
Reuse approximately 30 billion gallons annually

City of Terrell
College Mound Special Utility District
Copeville Special Utility District
East Fork Special Utility District
Forney Lake Water Supply Corporation
Gastonia-Scurry Special Utility District
Greater Texoma Utility Authority
Kaufman Four-One (Crandall)
Milligan Water Supply Corporation
Mt. Zion Water Supply Corporation
Nevada Special Utility District
North Collin Water Supply Corporation
Rose Hill Special Utility District
Seis Lagos Utility District
Town of Fairview
Town of Little Elm
Town of Prosper
Town of Sunnyvale
Wylie N.E. Special Utility District
CRITICAL SUPPLY PROJECTS

The population of the area the District serves is projected to double to 3.7 million by 2070. In order to ensure there is a dependable water supply, the District advanced two critical water projects in 2016.

The Trinity River Main Stem Pump Station and Pipeline project will expand our water reuse supplies. The proposed pump station will pump up to 100 million gallons per day (MGD) from the Trinity River through 17 miles of 72-inch-diameter pipeline to the wetlands for natural treatment. NTMWD is contracting with the Trinity River Authority to purchase an additional 50 MGD of treated effluent flows in the main stem of the Trinity River that will serve as the supply for the new project.

Once completed in 2019, the $120 million Main Stem Pump Station and Pipeline will divert river water to the East Fork Reuse Project, commonly known as the "wetlands." As the water passes through 1,840 acres of wetlands, the aquatic plants and sunlight help polish the water. The cleansed water from the wetlands will then be piped 44 miles through an existing pipeline to the north end of Lavon Lake and blended with other raw water sources. Final permits were received and construction began in 2016.

The proposed Lower Bois d’Arc Creek Reservoir (LBCR) project in Fannin County will be a critical new water source to meet future needs. The LBCR will provide an additional 120,000 acre-feet of water annually for our region. Once approved, this will be the first new reservoir constructed in Texas in nearly 30 years. The District has invested more than $130 million through FY 2016 to plan and permit the project since 2003.

The District has secured the State Water Rights Permit and is seeking the federal 404 Clean Water Act Permit necessary to begin construction. NTMWD anticipates receiving the final permit and beginning construction in early 2018 with completion scheduled for 2022. The total cost is estimated at $1.2 billion (2016 dollars).

Construction of the reservoir will provide economic stimulus and jobs for the region. Fannin County is anticipated to see a boost in taxable real estate values by an estimated $316 million. Additionally, the reservoir’s recreational amenities and new business opportunities could generate $166 million of annual economic activity per year in Fannin County.*

*Based on 2015 updated independent analysis by T. Clower and B. Weinstein
PROTECTING SOURCE WATER QUALITY

The Texas State Soil and Water Conservation Board provided a grant that has allowed the District to begin developing a watershed protection plan (WPP) to protect and improve the source water in its watershed. This voluntary, non-regulatory approach allows us to identify and address water quality issues at the source. By addressing source water quality issues, such as bacteria, nutrients and other pollutants, we can potentially prevent the need to implement more costly treatment processes.

The NTMWD Watershed Management program kicked-off development of a Watershed Protection Plan for Lavon Lake in September 2016. About 80 stakeholders—including regional and county representatives, local Soil and Water Conservation District members, business and industry representatives, area landowners and residents, and state and federal agency personnel—attended public meetings held in Wylie and McKinney.

NTMWD also partnered with Texas A&M AgriLife to hold a free Texas Watershed Steward program workshop in McKinney. Workshop participants learned about water quality best management practices and how watershed planning can be used to protect water sources.

LEADER IN REUSE AND CONSERVATION

According to the 2017 State Water Plan, water conservation and reuse will account for a quarter of future supplies in North Texas through 2070.

Reusing water reduces our reliance on acquiring new water sources, extends existing supplies and provides a drought-resistant water resource. With the largest water reuse program in Texas, NTMWD diverts and treats approximately 30 billion gallons annually.
Our East Fork Reuse Project is a man-made wetland area covering nearly 2,000 acres with about 1.6 million aquatic plants that naturally filter the water. The largest man-made wetland in the country, the East Fork Reuse Project essentially acts as a large-scale recycling project, diverting treated wastewater (effluent) flows from the East Fork of the Trinity River and filtering it naturally before it is returned to blend with other water supplies for future treatment and use.

As our region is prone to drought, the public’s efforts to conserve water remains critical to stretch our existing supplies. Effective conservation in partnership with our cities has allowed us more time to develop additional supplies and will continue to be an important strategy to meet our region’s long-term water needs.

As a statewide leader in water conservation education, NTMWD invests in campaigns that educate consumers and businesses on where their source water comes from and how they can help conserve and use water more efficiently. Our research shows that the more knowledgeable consumers are about their water source, supplies and water use habits, the more inclined they are to make changes in their water use. That’s why NTMWD has invested $17 million in water education since 2006.

Conservation is important to sustain water supplies and help consumers manage water bills. NTWMD’s water education efforts focus on three key programs: WaterIQ, Water My Yard, and Water4Otter.

The first statewide public awareness conservation program in Texas, WaterIQ* provides easy water-saving tips, resources and information. In 2016, the North Texas Water IQ campaign made more than 32 million impressions through events and advertising.

More than 50 percent of landscape water is wasted due to over-watering, inefficient watering and broken or poorly maintained sprinkler systems. Water My Yard is an online tool that informs North Texans how much to water their landscapes.

In 2016, we increased Water My Yard subscribers by 46 percent, and partnered with other regional water providers to develop regional landscaping water use tools.

Aimed at grade-school students, Water4Otter features Otis the Otter, which connects the water we drink to the water needed to support wildlife and the environment for students in area schools. In 2016, we were able to reach 6,720 students in 44 school performances.

*Water IQ is a licensed service mark of the Texas Water Development Board
CELEBRATING 60 YEARS OF WATER DELIVERY

Sixty years ago, we celebrated a monumental achievement for our region—the first delivery of water from our original water treatment plant in Wylie. We honored that milestone in 2016 with an open house for our member cities and customers.

Our cities and customers were well represented by the mayors, city managers, council members, public works directors, board directors and staff who came to celebrate with us. Visitors viewed displays to learn more about all that’s involved in delivering safe, reliable water.
NTMWD provides wholesale wastewater services to 24 communities and 1 million residents of North Texas. These critical services protect human health, protect and enhance the water environment, and support economic development. Regional service allows communities to share costs and avoid building and maintaining separate facilities, providing cost efficiencies.

The NTMWD wastewater system consists of more than 250 miles of large-diameter pipelines, 25 lift stations and 14 wastewater treatment plants. These facilities convey and treat approximately 152 MGD of wastewater. A portion of this treated water (effluent) can then be used to blend with drinking water sources, as well as for irrigation and to sustain aquatic life.

**REGIONAL PLAN TO INCREASE RELIABILITY**

In 2016, NTMWD initiated a regional wastewater work group by partnering with 12 members to develop a comprehensive plan using an industry approach called capacity, management, operations and maintenance (CMOM). The CMOM program streamlines and integrates regional and city system plans, projects and operations—ultimately saving NTMWD communities money by ensuring continued regulatory compliance and a more reliable system.

**WASTEWATER TREATMENT PLANTS: IMPROVEMENTS AND EXPANSION**

Two of our wastewater treatment facilities began receiving a major upgrade this year. Most recently, the Wilson Creek Regional Wastewater Treatment Plant (WWTP) began construction on a new headworks building, a structure that removes sticks, stones, grit and sand from wastewater. The new building will enable us to receive an additional 32 MGD of wastewater and remove even more pollutants from the wastewater stream.

**Stewart Creek West WWTP expansion** construction began late in 2015 to better serve the City of Frisco. The expansion will double the plant’s existing capacity to 10 MGD and allow the plant to divert flows to the Panther Creek WWTP as needed. NTMWD also enhanced system reliability by installing emergency generators at 8 of its lift stations to ensure that the lift stations and pumps can still operate in the event of a power outage. Both projects are expected to be completed by early 2019.

### COMMUNITIES SERVED:

<table>
<thead>
<tr>
<th>Regional Wastewater System Members</th>
<th>Regional Wastewater System Customers</th>
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<tbody>
<tr>
<td>&gt;&gt;&gt; Allen</td>
<td>» Anna</td>
</tr>
<tr>
<td>» Forney</td>
<td>» Fairview</td>
</tr>
<tr>
<td>» Frisco</td>
<td>» Lucas</td>
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<tr>
<td>» Heath</td>
<td>» Melissa</td>
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<tr>
<td>» McKinney</td>
<td>» Parker</td>
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<td>» Mesquite</td>
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<td>» Plano</td>
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<td>» Princeton</td>
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<tr>
<td>» Princeton</td>
<td></td>
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<tr>
<td>» Prosper</td>
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<tr>
<td>» Richardson</td>
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<tr>
<td>» Rockwall</td>
<td></td>
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<tr>
<td>» Seagoville</td>
<td></td>
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</tbody>
</table>
NORTH TEXAS MUNICIPAL WATER DISTRICT

Wastewater Fast Facts:

- 42.95 billion gallons of wastewater
- 250+ miles of large-diameter wastewater pipelines
- $158+ million in wastewater construction contracts
- Operate 14 wastewater treatment facilities

Sewer System Participants

- Farmersville
- Fate
- Frisco
- Lavon
- Murphy
- Rockwall
- Royse City
- Seis Lagos Utility District
- Wylie

Scott Blackwell
Wastewater Operator II - Muddy Creek WWTP

Bruce Eusse, Seth Pettit
Panther Creek WWTP
SOLID WASTE SYSTEM

Collin County municipalities rely on NTMWD to operate transfer station collection sites and a regional disposal facility to manage their waste. NTMWD designed its solid waste system to dispose of waste safely and reliably while protecting the environment and water quality. Our solid waste landfill is located, designed, operated and monitored in compliance with the TCEQ’s and the EPA’s regulations. Twice a month, solid waste member city residents can drop off certain types of waste—including used motor oil and used oil filters—at one of our Citizen Convenience Centers.

LOOKOUT DRIVE TRANSFER STATION

In 2016, NTMWD began construction of the new $12.9 million Lookout Drive Transfer Station in Richardson to increase operating efficiency and meet future service demands. The new facility is progressing on schedule and is expected to be operational by the end of May 2017.

Our solid waste system processed nearly 8 percent more waste in FY 2016 than the previous year—accepting a total of about 950,000 tons of solid waste. The only Member City that didn’t show an increase was the City of McKinney, which actually delivered less tonnage than the previous year due in part to an increase in commercial recycling efforts. While some of the solid waste could be reduced through more aggressive recycling efforts, the majority of the increase is a reflection of the growth of our cities.

COMPOSTING SERVICES

Since 2003, NTMWD has partnered with the City of Plano on a composting program to turn yard waste into reusable compost. In April 2016, NTMWD executed a 10-year contract with the City of Plano for composting services. In FY 2016, 49,782 tons of yard waste were diverted from the regional landfill to the composting facility. The compost is sold through local vendors at our Custer Road Transfer Station in Plano and at our landfill in Melissa. An added benefit of using compost in landscapes is that it enhances soils’ ability to absorb water, which helps save water.

COMMUNITIES SERVED:

- City of Allen
- City of Frisco
- City of McKinney
- City of Plano
- City of Richardson
- Collin County and surrounding area
GAS HARVESTING PROJECT

In the summer of 2016, NTMWD added 23 new gas wells to the 121 Regional Disposal Facility (landfill) in Melissa, bringing a total of 89 gas wells on the site. The wells allow the District to harvest the gas produced by the decomposition of solid waste within the landfill—mainly methane gas—to help control odor. The majority of the gas is currently burned in a candlestick flare, but we are working with Morrow Renewables on a gas-to-energy production project. This new project, scheduled to start in 2017, will allow us to capture and clean the gas and convert it to natural gas, which will help generate revenue and offset the operating costs of our Solid Waste System.

Solid Waste Fast Facts:

- **950,000+ tons** of municipal solid waste disposed in 2016
- **3,650 tons** of solid waste disposed per day at the 121 Regional Disposal Facility (landfill)
- **49,782 tons** of yard waste composted annually
- **4** regional citizen convenience centers
# Financial Highlights

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<tbody>
<tr>
<td><strong>Total Operating Revenues</strong></td>
<td>$398,068,222</td>
<td>$338,513,458</td>
<td>$310,571,544</td>
<td>$294,318,335</td>
<td>$266,482,345</td>
<td>$247,247,717</td>
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<tr>
<td><strong>Total Operating Expenses</strong></td>
<td>$224,688,538</td>
<td>$208,587,026</td>
<td>$206,640,634</td>
<td>$185,544,056</td>
<td>$172,604,883</td>
<td>$168,185,081</td>
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<tr>
<td><strong>Interest Expense</strong></td>
<td>$54,997,252</td>
<td>$49,531,332</td>
<td>$53,416,490</td>
<td>$56,060,066</td>
<td>$49,572,489</td>
<td>$47,874,920</td>
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<tr>
<td><strong>Net Position (end of year)</strong></td>
<td>$1,210,161,660</td>
<td>$1,084,270,528</td>
<td>$1,022,463,377</td>
<td>$965,529,463</td>
<td>$919,747,737</td>
<td>$866,040,890</td>
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<td><strong>Capital Asset, Net</strong></td>
<td>$2,510,962,344</td>
<td>$2,355,048,633</td>
<td>$2,267,375,583</td>
<td>$2,156,727,306</td>
<td>$1,890,251,199</td>
<td>$1,739,881,102</td>
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<tr>
<td><strong>Total Assets</strong></td>
<td>$3,244,085,198</td>
<td>$3,022,589,757</td>
<td>$2,796,203,756</td>
<td>$2,756,662,837</td>
<td>$2,738,286,856</td>
<td>$2,270,421,019</td>
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<td><strong>Total Liabilities</strong></td>
<td>$2,064,940,305</td>
<td>$1,961,150,528</td>
<td>$1,791,521,163</td>
<td>$1,791,133,374</td>
<td>$1,818,539,119</td>
<td>$1,404,380,129</td>
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<tr>
<td><strong>Total Outstanding Debt</strong></td>
<td>$1,787,809,381</td>
<td>$1,719,386,205</td>
<td>$1,613,849,003</td>
<td>$1,615,909,154</td>
<td>$1,654,227,993</td>
<td>$1,314,451,812</td>
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## Long-Term Bond Ratings

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<tbody>
<tr>
<td><strong>Water System</strong></td>
<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
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<tr>
<td><strong>Wastewater System</strong></td>
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<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
<td>Aa2/AAA</td>
<td>Aa2/AAA+</td>
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<tr>
<td><strong>Interceptor System</strong></td>
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<td>Aa1/AAA</td>
<td>Aa1/AAA</td>
<td>Aa1/AAA</td>
<td>Aa1/AAA</td>
<td>Aa2/AAA</td>
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## Debt Coverage Ratio

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<tbody>
<tr>
<td>Coverage Ratio</td>
<td>1.48</td>
<td>1.27</td>
<td>1.19</td>
<td>1.13</td>
<td>1.31</td>
<td>1.17</td>
</tr>
</tbody>
</table>

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**TJ Mead**  
Wastewater Plant Operator II - Panther Creek

**PC Jacob**  
Water Plant Operator III

**Blake Cummings**  
Wastewater Plant Operator II
2016 REVENUES
- Water Sales $252,591,522
- Wastewater Service Fees $113,132,055
- Solid Waste Service Fees $30,760,383
- Other Operating Revenues $1,584,262
Total Operating Revenues $398,068,222

2016 EXPENSES
- Personnel $65,389,176
- Depreciation and Amortization $54,099,332
- Other Services $40,506,216
- Chemicals $28,283,012
- Electric Power $19,187,942
- Other Supplies $14,560,209
- Wholesale Water Purchases $2,662,651
Total Operating Expenses $224,688,538

SERVING A GROWING REGION

NTMWD TOTAL POPULATION: HISTORICAL AND PROJECTED

1956: 32,000
1961: 60,000
1974: 200,000
1994: 800,000
2015: 1,600,000
2040: 2,500,000
2070: 3,700,000
OUR GREATEST ASSETS – OUR PEOPLE (THEN AND NOW)
60 YEARS AND STILL GOING STRONG