

Operations Committee Meeting
Thursday, August 1, 2024 8:30 AM
Lower Platte North NRD Office
P.O. Box 126
Wahoo, NE 68066

1. UNFINISHED BUSINESS
There is no unfinished business to address.
2. WILD NE AND OTHER PROGRAMS
M.E. Collins is back removing dirt from the three northern Cat Paws. They may reach their contracted 10,000 cubic yards.
3. OPERATION & MAINTENANCE & OTHER ITEMS
The O & M crew spent considerable time unplugging a 24" culvert at Homestead Lake. The culvert is under our road and was designed with grates on both ends. The grates will be removed to prevent blockage.
We continue to spray trees on NRD properties and Clear Creek Levee.
 - 3.A. Rehabilitation of Cottonwood 21-A, NRCS & HDR
A 60% study completion meeting was held on Thursday, July 25 between NRD staff, NRCS and HDR. The HDR engineering team reviewed five alternatives for the rehabilitation of Cottonwood 21-A. The alternatives are: Alt 1 - No Action/FWOFI - Alternative doesn't meet purpose & need.
Alt 2 - SLO Financed (Funded solely by NRD) \$1.2+ million
Alt 3 - Structural Rehab to High Hazard (New Spillway to East)
Alt 4 - Structural Rehab to High Hazard (Modify Existing A. Spillway)
Alt 5 - Structural Rehab to Significant Hazard (Buyout 3 homes downstream)
After reviewing all alternatives, Alt 3 & 4 are our best options, both at an estimated cost of \$2.8 million. See attached diagrams.
Alt - 3 gives 500 year protection, water will cross the County road in this event..
Alt - 4 gives 100-year protection and the County road will have water over it in this event.
Staff and an engineer would like to meet with the landowners on both alternatives to explain the alternatives and discuss their concerns before the District makes a decision.
 - 3.B. FEMA/NEMA Flood Damage
NRD staff have provided Terry Miller, Saunders County Emergency Manager, with an estimated damage cost on the Wanahoo area. That figure was forwarded to FEMA. We have not heard back from FEMA/NEMA.
 - 3.C. Clear Creek Levee & Tie Back Levee Elevations
We have not heard from the COE regarding the elevations related to the tie- back levee and the Clear Creek Levee. The Clear Creek D & D raised a portion of the tie-back levee some years back. Houston Engineering has provided us with LIDAR information showing that the tie-back levee is lower than the Clear Creek Levee, therefore it will not cause a rise in flood flows. We will use this information when the COE informs us of what they want.

3.D. Rawhide Ditch 8, Brand Request

Kirk Brand is requesting a larger CMP (corrugated metal pipe) in the county road ditch and his field, which drains into Rawhide Ditch 8 along Co. Rd 24.

Dodge County will not help with this project. Mr. Brand said he would help financially with a larger pipe. The committee directed Heimann to get estimates for replacing the existing pipe.

3.E. Bellwood Ditch 4 Flood Damage

Heavy rains & flooding caused damage to a landowners' field and the bank of Bellwood Ditch 4. (See Photos)

Staff will get an estimate from an area contractor(s) for work to be accomplished after harvest.

We had a similar repair in 2022 that cost \$4,500. We also had some work done 9 years ago.

3.F. Wanahoo Basin Investigation for Damage

Houston Engineering, the designers of the Wanahoo basin repair after the 2019 flood event, have a proposal to inspect the basin for damage at a cost of \$6,988. (See Attached Quote)

Houston Engineering, Ethan Miller and Connor Kelly inspected the Stilling Basin and area on May 29 after the water receded. Here are their notes:

Apron Inspection

We did a grid inspection of the apron and no damage was found. The baffle plate and baffles also appear to be undamaged. Some minor separations (1/2") between the end sill and sheet pile were noted on the west side as well. This section still appeared to be in stable condition.

Stilling Basin Inspection

We also probed the rock stilling basin and the rock armoring and shape of the pool seemed to be intact. The pool beneath the bank line that eroded was in good condition. We could not fully inspect the center of the basin with our equipment.

Relief Wells

There is noted damage to the relief wells on the east side that you're likely aware of. The most upstream well has a damaged outlet pipe in the area where the bank eroded. The housing unit on the eastern downstream well was also dislodged. A free floating conduit was observed near the outlet of the western downstream well, but that well appeared to be undamaged.

3.G. No-Till Grass Drill

The District received revenue from our grass drills in Saunders and Platte Counties for the first half of the year. Rezac Seed paid the District \$1,028.70, 15 cooperators used the drill. Rosendahl Farms paid the District \$503.50, 9 cooperators used the drill.

Staff is currently working on a NET grant to purchase a new grass drill to replace the drill in Platte County that is over 20 years old. The past couple of years, the District has spent considerable dollars repairing the drill.

A motion will be needed at Board Meeting

To authorize staff to write a NET grant to purchase a new no-till grass drill in 2025 at an estimated cost of \$50,000.

4. ROCK AND JETTY

We have not received any request for payments.

5. LAKE WANAHOO

5.A. Lake Wanahoo Permit Sales

For the month of June, the District received \$9,644.00 in annual park permit revenue. The year by year break down is listed below.

Month	Monthly Total	YTD
June 2024	\$9,644.00	\$55,311.00
June 2023	\$10,390.00	\$61,495.00
June 2022	\$10,462.50	\$62,495.00
June 2021	\$10,567.50	\$72,907.50
June 2020	\$13,030.00	\$80,255.00
June 2019	\$12,290.00	\$62,800.00

5.B. Lake Wanahoo Camping Revenue

For the month of June, the District received \$16,992.50 in camping revenue. The year by year comparison is below.

June 2024	\$16,992.50	\$58,788.95
June 2023	\$18,097.23	\$61,992.46
June 2022	\$17,755.42	\$60,242.33
June 2021	\$16,352.03	\$67,185.82
June 2020	\$20,362.09	\$75,030.44
June 2019	\$15,709.51	\$42,870.46

5.C. Wanahoo Camping

We are looking into increasing the number of 50 AMP camp sites as demand for them has increased. We are looking into pricing per camp site. Once we have a rough estimate we will bring it back to committee.

5.D. Lake Wanahoo Camera Purchase

With the recent incident in the park, we are in need of better video coverage of Wanahoo's east side. The only cameras we have on the east side of Wanahoo are located on the building. These do not provide adequate coverage of the park and traffic coming in and out. Diode (same company as building cameras) provided us with a 30 day free trial of two separate cameras, one stationary and one movable, both are quality cameras but the movable camera provides much better coverage. It can detect people and vehicles and follow them if desired.

<https://command.verkada.com/cameras>

5.E. Clint Johannes Education Building

The Clint Johannes Education Building at Lake Wanahoo was rented 18 times.
Revenue for the month was \$2,000.

6. INFORMATION AND EDUCATION

6.A. Information

6.A.1. Radio & eAds

The KTIC radio ads and Wahoo newspaper e-ads during July featured the availability of cost-share for abandoned wells. August ads will feature all three recreation areas. The ads are attached.

6.A.2. Analytics

The LPNNRD Facebook and X pages, along with the website are some of the fastest ways to get information out to the public. Facebook and X posts range from 12 -18 posts per month. If you are on Facebook or X, please like, follow, share, or retweet the Lower Platte North NRD posts!

Total reach/impressions show how many people saw the post/tweet. Engagements include likes, comments, shares/retweets and link clicks.

July had a total of 16 posts.

Followers for July	Total	Increase/Decrease
Facebook	1,635	Up .62%
X	451	Up 4.6%

Posts included:

- Upcoming variance request deadlines
- Hazard Mitigation Plan survey link
- Summer Viaduct is available to read on the website
- 4Rs Nutrient Stewardship Field Day
- Board Meeting reminders
- Rural Water maintenance notice
- Saunders County Fair bug hotels activity poster

W EB SI TE	Users	Traffic Channel Changes	Top Pages	Devices
Jul y	2,225	Organic -13.66% Direct 17.39% Referral -4.71% Social -50.85%	Lake Wanahoo Home Czechland Outdoor Recreation Downloads	Mobile 57% Desktop 41.5% Tablet 1.5%
Ju ne	2,895	Organic 19.25% Direct 15.94% Referral 98.82% Social -54.24%	Lake Wanahoo Home Czechland Flood Damage Reduction Staff	Mobile 57% Desktop 41.5% Tablet 1.5%

Ma y	2,721	Organic 40.51% Direct 17.95% Referral 63.64% Social -33%	Lake Wanhoo Home Czechland Flood Damage Reduction Staff	Mobile 62.8% Desktop 35.5% Tablet 1.7%
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Traffic channels: organic traffic means they use a search engine then choose an option that includes lpnnrd.org, direct traffic means they type in lpnnrd.org directly (or have it bookmarked), and referral traffic is any other traffic not from a search engine or social (such as a link from another site). As of mid-September changes for traffic channels and devices will show increase or decrease for the month.

Top referral clicks from: NARD's website 20, visitnebraska.com 21, Wahoo newspaper website (LPNNRD digital ad) 1.

Clicks from Facebook: 24.

Clicks from Twitter: 3.

6.A.3. County Fair Recap

July 11-14: Butler County fair was a bit slower than the past two years inside the building on Saturday and Sunday. A handful of brochures were taken; stickers, kites and wildflower seed packets were a success with the kids that walked through.

July 30: Saunders County Fair "Bug Hotels" activity for kids with recycled materials had 9 kids.

July 31-August 4: Dodge County Fair booth will be set up in Scribner.

6.B. Education

7. RURAL WATER SYSTEMS

7.A. Rural Water Operations

The RWD has been struggling with our WaterWorks billing software for the entirety of its existence; the remote meter reading capability was lost when PWG and Small Data Systems dissolved, the software has been exceedingly sporadic in its usability and the accounting integrity has been questioned by HBE.

The RWD reached out to multiple outlets to inquire about new software and remote meter reading options. Municipal Supply (attach) presented the best option and staff recommended to move forward with this option.

Total price: \$12,570.00

Includes: Remote (drive-by) meter reader, compatible with existing meters. New software package (\$1,200/year subscription), on-site training.

7.B. Colon System

The RWD was notified on 7/19 of a leak within the Village of Colon. The RWD with assistance from the City of Wahoo were able to locate and repair the service

line leak on 7/22.

Routine monthly sampling completed and bills mailed 7/30.

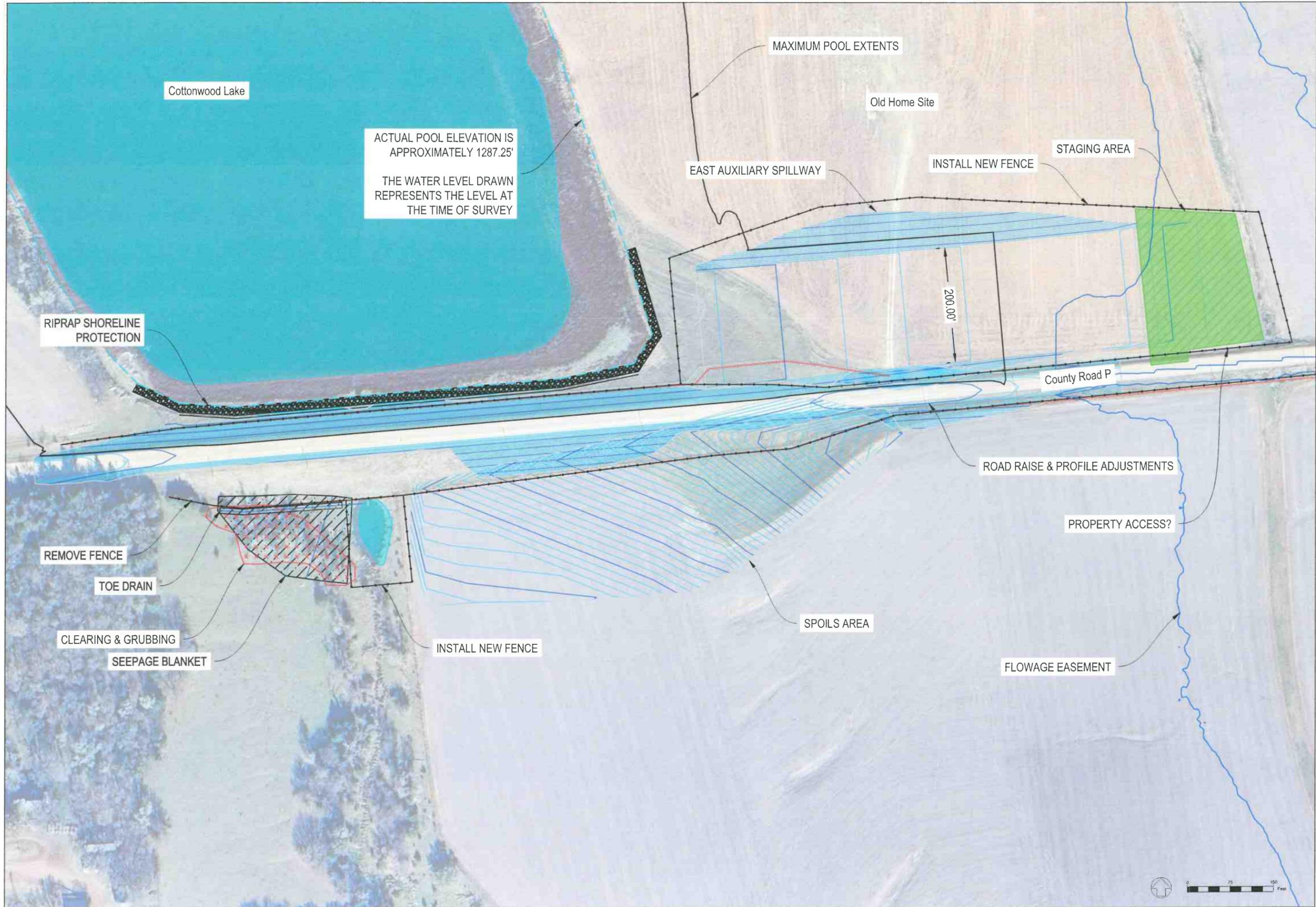
7.C. Bruno System

The Bruno RWD was contacted by landowner wanting to connect to the system due to a failed well. The property sits across HWY 12B spur and will require boring to run the service line to the property. The RWD has been in contact with multiple contractors and NDOT (permitting) to get the project lined up.

During the monthly meter reading/billing it was noted that one residential customer had an excessive use (285,000 gallons). Elliott contacted the landowner to inquire about the usage; an abandoned service line to a hog barn had ruptured and wasn't discovered for a period of time. The leak was repaired and no further assistance was requested.

Routine monthly sampling completed, bills mailed 7/30.

8. Budget Review Handout



ACTUAL POOL ELEVATION IS APPROXIMATELY 1287.25'
 THE WATER LEVEL DRAWN REPRESENTS THE LEVEL AT THE TIME OF SURVEY

MAXIMUM POOL EXTENTS

Old Home Site

STAGING AREA

EAST AUXILIARY SPILLWAY

INSTALL NEW FENCE

200.00'

County Road P

ROAD RAISE & PROFILE ADJUSTMENTS

PROPERTY ACCESS?

SPOILS AREA

FLOWAGE EASEMENT

RIPRAP SHORELINE PROTECTION

REMOVE FENCE

TOE DRAIN

CLEARING & GRUBBING

SEEPAGE BLANKET

INSTALL NEW FENCE

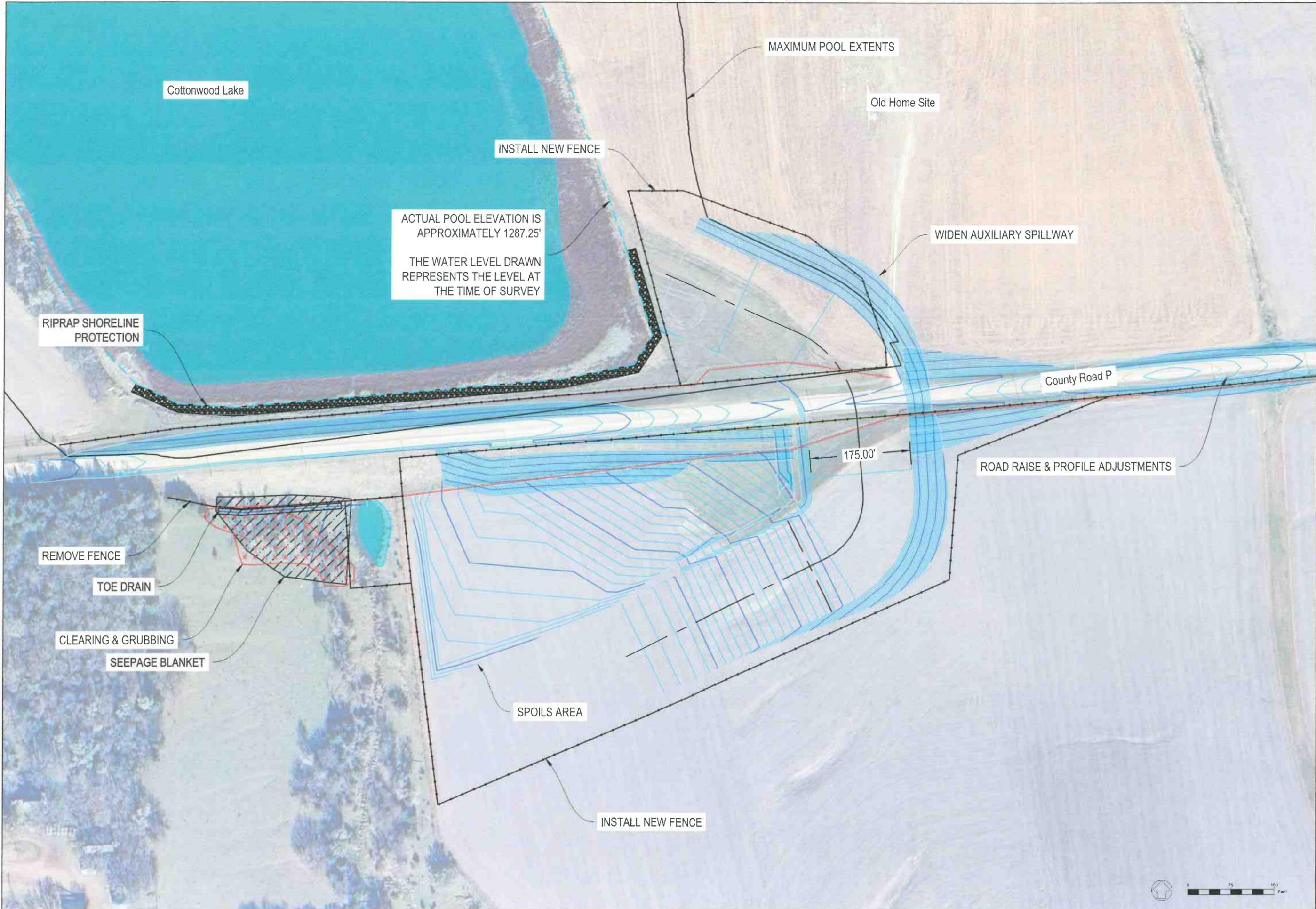


HAZARD ENGINEERING, LLC
 NBEA COA - CA4833
 Valparaiso, NE 68065
 Phone: (402) 525-3651
 thazard@hazardeng.com

**ALT 3 - HIGH HAZ
 EAST AUX. SPILLWAY
 SITE PLAN**

COTTONWOOD 21-A WATERSHED PLAN - EA
 LPNNRD
 S10, T15N, R6E
 Malmo, Nebraska 68066
 Lat: 41.2784 Long: 96.7277

Printed: 4/8/24	
Rev.	Date



HAZARD ENGINEERING, LLC
 NBEA COA - CA4833
 Valparaiso, NE 68065
 Phone: (402) 525-3651
 thazard@hazardeng.com

**ALT 4 - HIGH HAZ AUX.
 SPILLWAY WIDEN
 SITE PLAN**

COTTONWOOD 21-A WATERSHED PLAN - EA
 LPN/ND
 S10, T15N, R6E
 Malmo, Nebraska 68066
 Lat: 41.2784 Long: 96.7277

Printed:	4/8/24
Rev.	Date











HOUSTON

engineering, inc.

Lower Platte North Natural Resources District
 Lake Wanhoo Post-Flood Spillway Stilling Basin Inspection
 HEI Project # 172-0003

Task Description	Houston Engineering					Totals
	Principal Sotak, PE, D.WRE \$285	Senior Engr Gregalunas, PE \$259	Proj. Engr. Kelley \$208	Asst Engr EI (Varies) \$176	HEI Expenses	
Spillway Inspection						
1.1 Submerged Video Inspection	8				100	
1.2 Multibeam Sonar Survey		4	8	8	500	
Spillway Inspection Task Total	\$2,280	\$1,036	\$1,664	\$1,408	\$600	\$6,988
						\$6,988

1.1 Assumes flow through the principal spillway is ceased, area of interest downstream from flip bucket

1.2 Collected elevation data in the rock stilling basin will be compared to as-designed surfaces

VARIANCE REQUESTS

Variance requests for new and expanded irrigated acres in Restricted Development Areas and Non-Hydrologically Connected Areas are due by August 15.

Hydrologically Connected Areas are due by September 15.

For more information visit lpnrd.org or call 402-443-4675.



LOWER PLATTE NORTH
Natural Resources District

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LOWER PLATTE NORTH
Natural Resources District

Rediscover the Outdoors

Relax and enjoy a weekend getaway at one of three recreation areas near you! Czechland Lake near Prague, Homestead Lake near Bruno, or Lake Wanahoo near Wahoo.



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Natural Resources District



LOWER PLATTE NORTH Natural Resources District

The Lower Platte North Natural Resources District, one of 23 NRDs in Nebraska is based in Wahoo and covers portions of seven counties. A locally-elected board of 19 directors governs the district. The NRD is funded by a combination of local property taxes and grant funds.



WATER MANAGEMENT
The NRD has a variety of programs to protect and conserve our water resources - both on the surface and underground.

FORESTRY & WILDLIFE
Through cooperative programs with landowners and communities, we plant thousands of trees each year and help establish wildlife habitat areas.

WATERSHEDS & FLOOD DAMAGE REDUCTION
The NRD is involved in several large-scale projects to protect lives and property through environmental restoration, flood damage reduction and other measures.

CONSERVATION PROGRAMS
To protect our soil and water resources, we offer cooperative programs for landowners to establish terraces, buffer strips, small dams and other conservation practices.

EDUCATION
The NRD works with teachers, students and schools to bring conservation education to tomorrow's leaders.

OUTDOOR RECREATION
Fishing, camping, boating and more - the NRD's recreation areas provide outdoor fun for the whole family.

LOWER PLATTE NORTH NRD
201 Commercial Park Road | P.O. Box 125 | Wahoo, NE 68066
www.lpnrd.org | 402.845.2222

WHAT IS A POLLINATOR?

birds, bees, butterflies, moths,
flies, beetles, bats, wasps
and a few small mammals.






WHY ARE THEY IMPORTANT?

Pollination is an important process that allows plants to reproduce. Plants rely on pollinators and wind to transfer pollen to other plants through cross-pollination. It is estimated that **ONE** out of every **THREE** bites of food we eat exists because of **POLLINATORS!**



HOW CAN YOU HELP?

We can **PLANT FLOWERS** that provide food and create habitats. Contact your local Natural Resources District or Natural Resources Conservation Service to find out how you can create pollinator habitats near you.



LOWER PLATTE NORTH
Natural Resources District

201 Commercial Park Road | P.O. Box 125 | Wahoo, NE 68066
www.lpnrd.org | 402.845.2222



**LOWER PLATTE NORTH
Natural Resources District**





ONE out of every THREE

bites of food we eat exists
because of these pollinators!



HOW DOES YOUR GARDEN GROW?

With the help of birds, bees,
butterflies, moths, flies, beetles,
bats, and some mammals.



WHAT WOULD DISAPPEAR WITHOUT POLLINATORS?

Apples, almonds, oranges, cherries,
blueberries, avocados, onions,
grapefruit, cucumbers, pumpkins,
cacao, alfalfa, strawberries,
peaches, vanilla, and MORE!



CAN'T PLANT THEM NOW?

No problem! Store the packets in a cool,
dry place to plant next Spring!





Municipal Supply, Inc.

Municipal, Contractors & Industrial Supplies

21644 William Circle
402-408-0500

Gretna, NE 68028
1-844-417-7370

FAX 402-408-0499

May 31, 2024

Lower Platte North NRD
% Sean Elliott
511 Commercial Park Rd.
Wahoo, NE 68066

Dear Sean:

Here are the system N360 AMR SaaS-UPGRADE Opportunity A91608 prices you requested.

Complete Drive-By System UPGRADE Opportunity A91608 includes the following:

1	MRX920 v4e Mobile Data Collector and MX900 v5.1 13655-300	8,400.00
1	Neptune 360 SaaS Platform (AMR) Annual Service Minimum Subscription 13980-110	1,200.00
1	Neptune 360 AMR Set-up Fee (one-time fee) 13980-001	1,770.00
1	Neptune 360 On-site Training 13980-004 (Normally \$1,770.00)	1,200.00

Total:

\$ 12,570.00

Note: Customer supplies own Tablet or I-Pad

N SIGHT Mobile Hardware-Extended Warranty
(**Annual** rate per item after 1 year warranty up)

1	MRX Mobile Data Collector 13721-005	2,443.00
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Lower Platte North
May 31, 2024
Page 2

Lower Platte North NRD is responsible for purchasing a transfer file for their billing system. A transfer file from your billing software vendor may cost you around eight hundred dollars.

If you have any questions or if we can be of any further assistance, please do not hesitate to give us a call.

Sincerely,

A handwritten signature in cursive script, appearing to read "Todd A. Speth".

Todd A. Speth
Territory Manager

CC: Nick Cline

Neptune[®] 360[™] Meter Data Management Platform

A Product of Neptune Technology Group





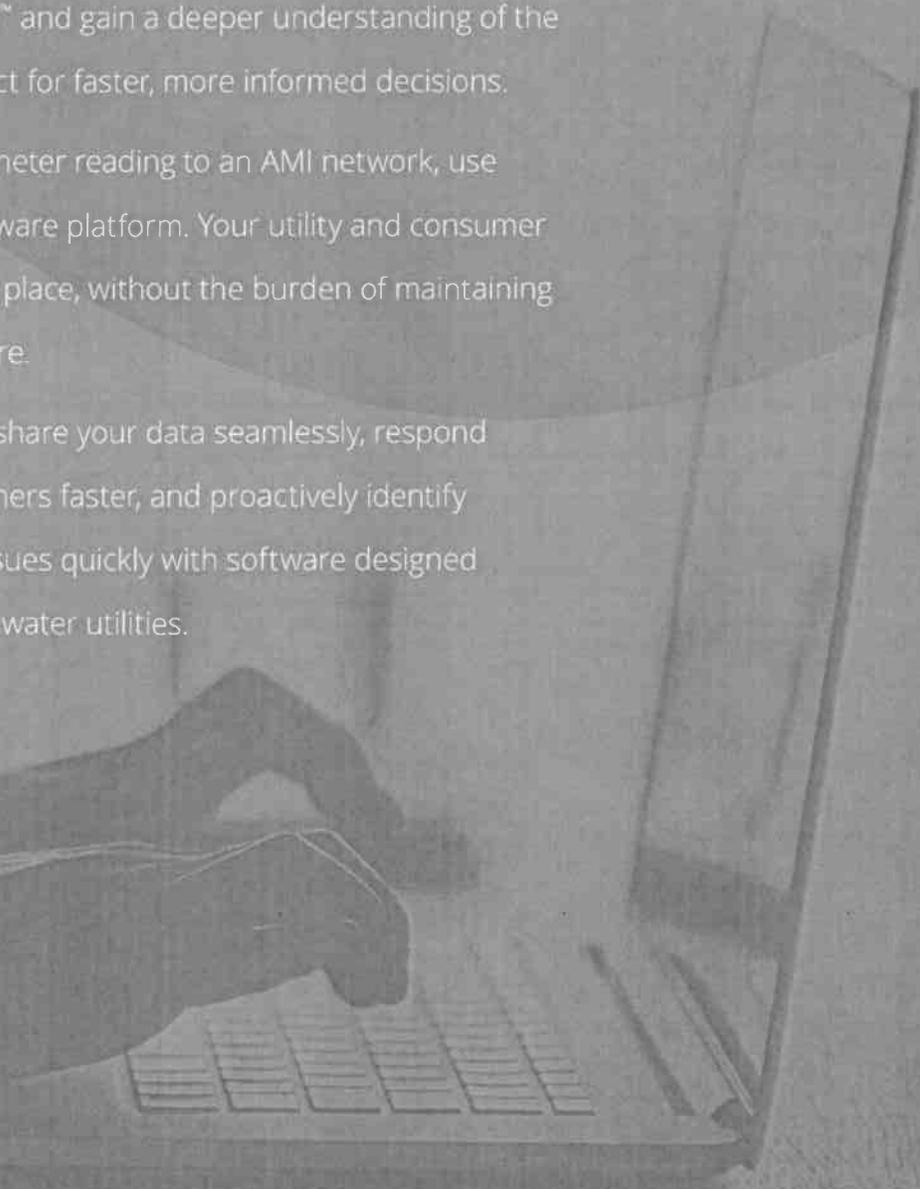
Turn Information into Action

Data is just data unless you can use it effectively.

Go beyond basic meter reading and billing with Neptune® 360™ and gain a deeper understanding of the data you collect for faster, more informed decisions.

From mobile meter reading to an AMI network, use the same software platform. Your utility and consumer data all in one place, without the burden of maintaining IT infrastructure.

Integrate and share your data seamlessly, respond to your customers faster, and proactively identify and resolve issues quickly with software designed specifically for water utilities.



Putting Your Data in View

Having data is one thing, making sense of it is another. Neptune 360 delivers an intuitive, user-friendly design, making data clear and easy to interpret. Examining your entire AMI network using system-wide Key Performance Indicators and geographical views assists with identifying areas of concern and finding ways to maximize operational efficiencies.

Quickly access a dashboard view of your largest water customers while also providing consumers self-service access to their water consumption. Analysis of individual trends and usage patterns helps resolve customer service calls with confidence. Detailed reporting of consumption activity, potential leaks, and reverse flow will keep you ahead of issues that could impact your utility's revenue.



Lift Your IT Burden with a Cloud-Based Solution

Boost utility efficiency with Neptune 360. No longer install servers or perform upgrades. All you need is an Internet browser to log on from anywhere at any time.

Share Information

Your management, maintenance, customer service, water conservation, and other departments all need fast, easy access to information. Share and leverage actionable data captured by Neptune 360, empowering collaboration and helping predict impacts on your utility. The platform seamlessly integrates meter data, event data, and alerts directly with third-party work order systems, customer portals, hydraulic modeling applications, and other systems through Application Programming Interfaces (APIs).



A True Sense of Security

Ease your security concerns and stay focused on the critical work of water. Neptune 360 is SOC-certified and operates from a continuously-monitored world-class data center, providing the highest level of security, redundancy, and disaster recovery services.



An Application that Grows as You Grow

From mobile meter reading today, to moving to an AMI network tomorrow, the same software platform is utilized. Apply trend analysis in rate structure planning and usage initiatives. The modular-based platform makes it easy to turn on new features as your needs evolve, bringing you critical data to proactively plan for tomorrow.



Trust the Data

Data accuracy and dependability matter. By implementing the highest-level architecture, Neptune ensures data integrity with processes and tools to maintain quality from the meter to the platform as part of routine business operation.

Neptune® My360™ Consumer Portal

Enhance utility customer service and operational efficiency by providing consumers with a convenient, proactive way to monitor their own water consumption 24/7. Users no longer have to wait for a bill to detect possible issues, which means less water lost and fewer high bill complaints.

Users can set water thresholds and out-of-town alerts for greater peace of mind. And water conservation is

encouraged when consumers can see how much they actually use with easy-to-read charts and graphs.

Neptune My360 is web-based to work on all devices and is always up-to-date. Easily customize to your utility's branding and get up and running quickly without the need for complex integrations.

My360™



NEPTUNE³⁶⁰

Analyze and share meaningful data with a platform that empowers utilities. Actionable insights help you achieve your goals and objectives.

METERS MATTER

Stream accurate actionable data right into Neptune³⁶⁰.



WALK-BY DATA

Sync collected data easily.



FUTURE PROOF AMI

Connect AMI network data.



MOBILE

Incorporate mobile data collection.



BRING YOUR OWN DEVICE

Eliminate specialized devices and communicate efficiently.



THIRD PARTY SOFTWARE

Link data with third party applications (such as CIS and ESR).



CONSUMER PORTAL

Intuitive self-service solution to view consumption and encourage conservation.



- + ACT QUICKLY.
- + PLAN FOR THE FUTURE
- + MANAGE GROWTH



Specifications

Neptune 360

- Google Chrome and Microsoft Edge web browsers supported
- When using touch screen monitors, Neptune recommends Microsoft Edge web browser for optimal viewing and performance

Neptune 360 Mobile

Neptune 360 Mobile supports Android, iPhone, and iPad devices running the following operating systems:

- Android:
 - Recommended device manufacturers: Samsung, Nexus, or Motorola
 - Supported OS Versions: 5.1 – 11
- iOS:
 - Versions 10.3.1 – 15

Neptune My360

- A web browser with Internet connectivity is required
- Responsive design with capability to run on desktop, laptop, tablet and mobile devices



Neptune® 360™ Mobile

Neptune 360 Mobile provides direct communication via wireless from the field without the need to go back into the office, yielding data on demand for more efficient customer service. Other application capabilities include RF Test, Off-Cycle Read, and Data Log to capture 96 days of hourly historical consumption — addressing customer issues faster.

96

days of hourly
historical
consumption



Bring Your Own Device to Field Operations

Save money and time with Neptune 360 Mobile — use your utility's existing Android or iOS cell phones or tablet devices to perform meter reading. Pair with a Neptune R900® System belt clip transceiver or mobile data collector and expand your field device options when performing re-reads, reading monthly routes or even responding to high water bill complaints.

Neptune® 360™ Benefits

- Neptune-managed system with no installation required
- Cloud-based solution in a world-class data center with the highest level of security and disaster recovery/redundancy
- 24/7 software system monitoring
- Retain data ownership in a system designed exclusively for water utilities
- Integrate and access Data Analytics across departments — helping your utility achieve goals and objectives
- Identify potential leaks, excessive consumption, and reverse flow to proactively resolve issues faster
- Migrate easily from mobile to fixed network
- Aid Non-Revenue Water reduction, conservation, and rate planning
- A single platform across devices that can be accessed anywhere at any time



neptunetg.com
#winyourday

Neptune Technology Group
1600 Alabama Highway 229
Tallahassee, AL 36078
800-633-8754 | 334-283-7293

Streamline Meter Reading

Neptune R900® System: Mobile Data Collector



The Neptune® mobile data collector provides fast, accurate automatic water meter reading to preserve resources, create operational efficiencies, and enhance safety. Critical data is transformed into actionable information to help identify causes of loss. Access to consumption data and alerts of leaks and backflow conditions aid in proactively addressing high bill complaints, reducing delinquent payments, and eliminating write-offs.

The R900® System is designed to easily support past generations of meters, encoder registers, and data collectors – preserving your asset investments and offering the flexibility to incorporate future innovations as needed.

- Reliable, accurate, and field-proven
- Seamless compatibility with all generations of R900® endpoints
- Automatic, rugged, portable, and easy-to-use
- Improves accuracy, increases reader safety, and reduces reading time
- Common core code base for faster availability of new features and functionalities
- Save money with flexible hardware connection options via Bluetooth or USB
- Makes Automatic Meter Reading (AMR) safer and simpler
- Small enough to fit in any vehicle

Specifications

Physical Specifications

- Dimensions:
8" (width) x 3.15" (height) x 11"
(length excluding connections
and handle)
- Weight: ~5 lbs

Electrical Specifications

- Power consumption: < 1A
- Power supply: 12V DC via vehicle
power source adapter

Environmental Conditions

- Operating temperature:
-4°F to +122°F (-20°C to +50°C)
- Storage temperature:
-40°F to +185°F (-40°C to +85°C)
- Operating humidity: 5 to 95% non-
condensing relative humidity

Mobile Computing Hardware Specifications

Neptune recommends the following
for optimal performance:

- Android operating system versions
11 – 13 with recommended
Samsung, Google, and Motorola
device manufacturers

- Apple iOS versions 13 – 16 for
iPhones and iPads

Neptune 360 (Head End System):

- Google Chrome and Microsoft
Edge web browsers
- Microsoft Edge web browser for
optimal viewing and performance
when using touch screen monitors



Neptune Technology Group
1600 Alabama Highway 229
Tallahassee, AL 36078
800-633-8754 f 334-283-7293