

Water Committee Meeting
Thursday, September 3, 2026 9:30 AM
Lower Platte North NRD Office
1616 County Road 17
Wahoo, NE 68066

1. UNFINISHED BUSINESS

2. REGULATORY

2.A. GROUND WATER MANAGEMENT AREA

2.A.1. Variance Request in the Hydrologically Connected Area (Limited Development Area)

2.A.2. Variance Requests in the Non-Hydrologically Connected Area (Normal Development Area)

There is one variance for consideration in the non-hydrologically connected area:

- Sandra Muhle- N1/2, NW1/4, 17-18N-1E in Platte County. New well variance. Well would be located approximately 300ft south of SQS2 area and 1.5 miles east of hydrologically connected area. Variance scored 397.74 with our ranking system.

2.A.3. Variance Requests in the Restricted Development Areas

There are two applications for consideration in the restricted development area:

- Eric Nelson- SW1/4 SE1/4, 3-15N-8E, Saunders County, new irrigation well variance. The well will be located roughly 1,300ft north of the border between the restricted development area (red) and the hydrologically connected area (blue). Variance scored 420.52 with our ranking system. Newer technology utilizing Ttem can assist in determining the best location where water bearing material is located.
- Randy Rasmussen- E1/2 of NE1/4, 21-16N-8E, Saunders County, well variance to move a pivot and expand acres. Application was for 20 acres, but will likely be closer to 15 acres. The well will remain in its current position. The well is located roughly 2,700ft east of the border between the restricted development area and the hydrologically connected area. Variance scored 433.54 with our ranking system.

Committee Discussion

- Eric Nelson- The field location and variance scoring seem to make this variance suitable for approval. It was recommended that if this proceeds to a well permit that potentially allowing a tTEM survey with one test hole could be substituted for the requirement to have three test holes.

- Randy Rasmussen- the field location and map were closely evaluated due to several nearby homesteads. The scoring is quite high, and water quantity appears to be sufficient for an expansion of acres.

2.A.4. Well Permit Program

There is a replacement well being put in for Sports Rev LLC/Bill Ekeler (T17N-R7E-S2) for a duck pond. Since this is a 4-inch submersible well, the McCrometer MF104 flow meter is being proposed to meet meter requirements. The flow meter reads in acre-feet, has an overrun bearing, but does not have anti-reverse.

The Committee felt this was OK as this was a smaller pipe size.

2.A.5. Citizen Well Interference Complaint

Mr. James Matejka informed LPNNRD staff that he was experiencing well interference. Mr Matejka was provided with the draft well interference complaint form on 8/7/2026 and encouraged to complete this form and attend the next Water Committee meeting. If present, Mr. Matejka is invited to share his concerns with the committee.

2.A.6. Well Interference Complaints

A draft well interference complaint form and protocol document has been prepared. The well interference complaint form has been updated with information on locating well information on the DWEE website, how to include information on additional suspected interfering wells, and a communication log.

The protocol document has also been updated to position the LPNNRD as a data collection agency and to make it clear that contractor scheduling and fees are the responsibility of the complainant.

Staff is requesting comments and feedback on these documents so they can progress to being approved for use.

The committee and staff reviewed the documents and, with minor recommended changes, the committee felt they were acceptable to move to the full Board.

Committee Discussion

The water committee is pleased with the changes to the interference form and had no further recommendations for changes.

For the protocol, the committee had minor corrections to steps 3.1 and 3.5, which have now been resolved. The committee supports approval of these documents.

2.A.7. Special Quantity Subareas

LRE Water is working on the SQS area reevaluation study to determine if the SQS boundaries could and should be revised. An invoice per contract for \$5,367.25 is attached for review.

2.A.8. Cost Share Programs

CHEMIGATION EQUIPMENT - Motion Needed

Jay Jedlicka - \$500

Randy Kassmeier - \$500

RO Discussion

- To receive cost-share for an RO system, the domestic well owner must register their well and also pay the \$240 state fee. I believe this should be voluntary and not a requirement. Is this condition accomplishing something necessary for the purpose of this program?
- Well registration protects groundwater-management interests, including helping address well interference and disputes. The RO program is intended to protect domestic well owners from poor drinking water quality and health risks. Those are two different objectives, and registration should not necessarily be a prerequisite for RO assistance.
- Thoughts on changing this requirement to voluntary? Motion would be needed.

The water committee feels that in light of the withdrawn cost-share applications due to the well registration fee, the cost-share amounts should be further adjusted to remove any barriers. Because this is an important issue relevant to public health, the committee would like to increase the cost-share of RO units to cover 75% of the cost, up to \$1,200 as well as cover the \$240 domestic well registration fee. Keeping the two amounts separate will improve marketing for the program, since many homeowners were shocked by the registration fee requirement.

In light of the cost-share changes, the committee also discussed and supported increasing the cost share amounts for Julie Bideaux and Dean Novak to match the new amounts. The two cost shares for RO units will be postponed until next month as dollar amounts were not set prior to the meeting.

RO UNITS - Motion Needed

Julie Bideaux - 1 RO Unit - \$1,000 (\$1,331.92 with changes & registration fee)

Dean Novak - 2 RO Units - \$2,000 (\$2,400 with changes)

2.A.8.a. Irrigation Well Sample Kits

2.A.8.b. NET Grant

LPNNRD staff has prepared a grant application for the Nebraska Environmental Trust (NET). This grant application proposes a 3-year, \$500,000 cost-share program (60% NET / 30% NRD / 10% producer) to convert high-pressure irrigation systems to low-pressure, convert gravity systems to center pivots, and provide cost-share for flowmeters. As part of the grant, all grower applications will require a flowmeter to be in place to help quantify efficiency gains, which will be cost-shared if they don't already have one. The request to NET specifically is \$300,000 total (\$100,000/year for three years), with the NRD contributing \$150,000 over

three years and producers contributing \$50,000 over three years to round out the \$500,000 total project cost.

2.A.9. Lower Platte River Basin Water Management Plan Coalition (LPRBC)

Dues for FY2027 are requested from the Lower Platte Basin Water Management Plan Coalition in the amount of \$10,000.

2.A.10. Cleanup Site Update

AtN at Mead will be installing a 2–3 tower pivot on site to pump lagoon water onto some grass that they will be planting. DWEE has been notified and commented that this is part of the cleanup process. They will be utilizing some groundwater from an existing well to flush the pivot after using the lagoon water.

After the Committee Meeting, Walt Welzenbach from the Engineering firm ERM reached out to staff and reported that they will be utilizing G-136421 registered as a Commercial/Industrial well for the cleanup of this site.

Map is attached.

2.B. CHEMIGATION

For 2026 we have 4 renewals and 0 new permit applications for a current total of 4 remaining inspections to complete.

2.C. GROUND WATER ENERGY LEVELS

Staff participated in the Wann Basin sampling day on 8/25/2026 and sampled 58 wells in partnership with the USGS, Lincoln Water System, and ECC. Results show that the water level declined an average of 1.03 ft compared to summer 2025.

2.D. GROUND WATER QUALITY SAMPLING

Staff has sampled 51/53 statewide network wells.

3. GROUND WATER PROGRAMS

3.A. DECOMMISSIONED WELL PROGRAM

3.A.1. Well Estimates

new wells has been reviewed and approved for decommissioning since the last Committee meeting.

Well Owner	Type of Well	Cost Share Estimate	County
Michelle Birkel	I	\$1,767.43	Butler
Joan Davidshofer	I	\$1,919.93	Platte

3.A.2. Plugged Wells

wells have been plugged, reviewed, and ready for cost share payment approval this month.

Well Owner	Type of Well	Cost Share Estimate	County

3.B. LOWER PLATTE NORTH NRD GROUND WATER STUDIES

3.B.1. Phase Area Update

The LPNNRD has an estimated \$40,000 remaining in the WSF Grant, which provides 60% cost share. This would result in the LPNNRD contributing roughly \$26,000 towards a project. Staff would like to use this money to purchase vadose zone sampling equipment. This equipment would initially be used to conduct a study in the SQS area to compare to 2020 sample results and verify that best management practices (BMPs) that have been implemented are working as intended. This equipment would then be available to use for future studies throughout the district.

The Lower Platte South NRD recently received quotes from several manufacturers, and shared their quotes with the LPNNRD. These quotes, as well as several pictures, are attached for consideration and discussion.

To move forward, the LPNNRD would need to ask the WSF commission for a grant scope change to use the funds for vadose zone sampling equipment and studies. The NRD will continue to cost share on the remaining flow meters.

Staff has attached an explanation of what is being requested from the Commission on the WSF grant.

3.C. NEW MONITORING WELLS

3.D. AI Model

In the previous water committee, the committee asked staff to provide additional information on the inputs, outputs, and value of an AI model before progressing to RFQs and RFPs.

Suggested Scope and Uses of AI Model:

- Estimate potential water use given climatic conditions

- Effects of current/future irrigation demand on groundwater levels
- Effects of adding one or more wells, particularly on well interference
- GUI/dashboard for the board and public

Suggested inputs:

- Weather network data (precip, temp, ET)
- Monitoring well transducer records
- Spring/Fall water level measurements
- Flow meter readings
- Well construction/registration records
- Airborne electromagnetic (AEM) resistivity survey data
- Soil physical properties
- Land use, cover, slope
- Actual evapotranspiration

Suggested outputs:

- Groundwater-level response to pumping/recharge changes
- Streamflow response to pumping/recharge changes
- "Optimal" district-wide pumping/recharge balance
- Potential water use given climatic conditions (dry/wet year demand forecast)
- Effect of adding one or more new wells / well interference
- Interactive GUI to tweak parameters (dry/wet year, more/less pumping)
- Public/board-facing visual dashboard

Value of the AI Model:

- Utilization of existing data (weather, monitoring wells, AEM, etc...)- \$20,000 annually
- Routine analysis (permits, scenarios, allocations)- \$15,000 annually
- Risk mitigation(litigation)- \$5,000 annually
- **TOTAL-** \$40,000 annually

3.E.SOURCE WATER PROTECTION

The LPNNRD and DWEE met with the Yutan City Council on August 18th to discuss their interest in pursuing an update to their Wellhead Protection Plan. It was not brought to a vote. However, they are very interested in moving forward once the DWEE groundwater model has been completed later this year.

4. SURFACE WATER PROGRAMS

4.A. STATE LAKES, FOR THE WEEK OF

This week's beach HAB and bacteria results are now posted on the DWEE web page ([Current Health Alerts and Sampling Results For This Week](#)).

Rockford Lake will be on Health Alert this week. Cub Creek Lake will be removed from Health Alert!

Maple Creek Recreation Area Lake has tested high for *E. coli* this week.

There is **1** beach on Health Alert this week!

Current Lakes on "Health Alert"			
Lake	County	Microcystin (ppb)	Sample Date
Rockford Lake	Gage	8.13	8/24/2026

When a lake exceeds 8 ppb of microcystin it will be placed on Health Alert. If a lake is under a Health Alert, signs will be posted recommending people avoid full body contact activities such as swimming, wading, skiing, jet skiing, etc.

There is **1** beach with *E.coli* testing above 235 colonies/100 ml.

Lakes with High <i>E.coli</i> Bacteria			
Lake	County	<i>E.coli</i> (MPN)	Sample Date
Maple Creek Recreation Area Lake	Colfax	1,986	8/24/2026

4.B. USGS STREAM FLOW GAUGING SITES

5. OTHER

Lower Platte North Natural Resources District

Variance Ranking List 2026

Non-Hydrologically Connected Area (White Area)

Variance Number	Applicant	Application Type	County	Ranking Score	Consumptive Use	Acres	Section	Township	Range
LPN-V-026-0676	Sandra Muhle	New	Platte	397.74	2.92	26	17	18N	1E

Lower Platte North Natural Resources District

Variance Ranking List 2026

Restricted Development Area (Red Area)

Variance Number	Applicant	Application Type	County	Ranking Score	Consumptive Use	Acres	Section	Township	Range
LPN-V-026-0677	Eric Nelson	New	Saunders	420.52	15.71	124.6	3	15N	8E
LPN-V-026-0678	Randy Rasmussen	Expansion	Saunders	433.54	3.5	20	21	16N	8E



LEGEND

- Expansion Well
- Expansion Area
- Variance Section
- Current Irrigations
- Current Wells

LEGEND

- New Well
- ◻ Expansion Area
- ◻ Variance Section
- Current Irrigations
- Current Wells





LOWER PLATTE NORTH Natural Resources District

1616 County Road 17
Wahoo, NE 68066
(402) 443-4675
www.lpnrd.org | lpnrd@lpnrd.org

8/7/2026

James Matejka,

Please find enclosed with this letter our Well Interference Complaint Form. Please complete and return this form at your earliest convenience. This information is necessary for us to begin a field investigation.

Additionally, I would like to invite you to attend our next Water Committee Meeting, where several of our board members oversee water-related issues within the district. This meeting will be held on 9/3/2026 at 9:30 AM at our offices in Wahoo, NE. The completed complaint form will allow us to add this complaint to our meeting agenda, and you will be welcome to speak with the committee about your concerns.

If you have any questions or concerns, please don't hesitate to contact me.

Sincerely,

Nate Dorsey
Water Resources Assistant Manager
Lower Platte North Natural Resources District



WELL INTERFERENCE COMPLAINT FORM

To be completed by Lower Platte North Natural Resources District Staff

Complaint Number:

Date Received:

Received By:

SECTION 1- LANDOWNER INFORMATION

Full Name:

Mailing Address:

City:

State:

Zip:

County:

Primary Phone:

Email Address:

SECTION 2- LANDOWNER WELL INFORMATION

2A. Well Type

Primary Well Use:

☐ Domestic

☐ Irrigation

☐ Municipal

☐ Livestock

☐ Industrial/Commercial

☐ Other

If 'Other', please describe:

Well Construction Type:

☐ Drilled

☐ Bored

☐ Sand Point/Driven

2B. Well Identification

Note: Resources you can use to locate well information include the following Nebraska Department of Water, Energy, and Environment (NDWEE) sites:

- Well Search page- <https://nednr.nebraska.gov/dynamic/wells/wells>
- Groundwater Interactive Map- <https://dwee.nebraska.gov/groundwater/groundwaterinteractivemap>

DWEE Well Registration Number:

A- _____ or G- _____

Well Location (Legal Description):

_____ of _____ Section _____ T _____ N R _____ E / W

Well GPS Coordinates

Lat. _____ Long. _____

2C. Well Details

Well Drilling Contractor:			
Well Driller's License #:			
Well Drilling Date:		Well Depth:	
Initial Static Water Level:		Current Water Level (if known)	
Pump Depth:		Top of Screen:	
Bottom of Screen:		Screen Slot Size:	
Pump Manufacturer:		Year Installed:	
Rated Capacity (GPM):		Motor Horsepower:	
Date of Last Service or Inspection:			
Inspected or Serviced by:			

SECTION 3- DESCRIPTION OF WELL INTERFERENCE

Type of Issue:	☐ Reduced flow	☐ Well went dry
	☐ Sand or sediment in water	☐ Turbid / discolored water
	☐ Other	
If 'Other', please describe:		
Date issue began:		
Frequency:	☐ Continuous	☐ Intermittent
Describe the issue in detail (when it occurs, duration, frequency):		
Describe what you believe is causing the issue:		

SECTION 4- SUSPECTED INTERFERING WELL

Note: If you believe additional wells may be contributing to interference, you may attach additional information to this complaint form.

Owner Name (if known)

Owner Address (if known)

DWEE Well Registration Number:

 A- _____ or G- _____

Well Location (Legal Description):

 _____ of _____ Section _____ T _____ N R _____ E / W

Well GPS Coordinates

 Lat. _____ Long. _____

Estimated Depth:

Estimated Capacity (GPM):

SECTION 5- DOCUMENTATION

Please include the following documents with this form. Incomplete submissions may delay the investigation.

Required documents checklist:

- | | |
|--|---|
| ☐ Well completion report/ driller's log | ☐ DWEE well registration record |
| ☐ Pump service or inspection records | ☐ Pump test data |
| ☐ Photos of well and surrounding area | ☐ Map or aerial photo showing well locations |

SECTION 6- CERTIFICATION AND SIGNATURE

By signing below, the complainant certifies that all information provided is true and accurate to the best of their knowledge, and that they consent to Lower Platte North Natural Resources District staff and/or contractors accessing their property and well for investigation purposes.

Complainant Signature

Printed Name

Date

Note: Upon receipt of your complaint, the LPNNRD will log your submission, notify the owner of any suspected interfering well, and conduct a field investigation to measure water levels and assess the cause. No action will be taken against any well operator until interference has been verified. You will receive written notification of the findings and available resolution options once the investigation is complete.

SECTION 7- COMMUNICATION LOG

Note: For internal use by LPNNRD staff only.

Date:

Time:

Staff Name:

Contact Name:

Contacted Method:

☐ In Person

☐ Phone

☐ Email

☐ Letter

Notes:

Date:

Time:

Staff Name:

Contact Name:

Contacted Method:

☐ In Person

☐ Phone

☐ Email

☐ Letter

Notes:

Date:

Time:

Staff Name:

Contact Name:

Contacted Method:

☐ In Person

☐ Phone

☐ Email

☐ Letter

Notes:



WELL INTERFERENCE RESPONSE PROTOCOL

This protocol establishes the standard process for reviewing, investigating, and resolving well interference complaints filed with the Lower Platte North Natural Resources District (LPNNRD). All staff involved in complaint investigations shall follow these procedures. This protocol applies to all well types including domestic, irrigation, livestock, municipal, and industrial/commercial wells.

IMPORTANT: No regulatory action, including shut-off orders, shall be issued against any well operator until the investigation is complete and interference is verified. This applies to all wells, including those with shut-off stipulations in their permits. Premature shut-off requests may create legal liability and may not be supported by evidence.

PHASE 1 — INTAKE & INITIAL REVIEW

1.1	Log and Acknowledge the Complaint Upon receipt, assign a unique complaint number and log all information in the LPNNRD complaint tracking spreadsheet. Provide acknowledgment of receipt of the complaint within one business day through email, phone, or letter. Include the assigned complaint number, the name of the assigned investigator, and an estimated timeline for initial review. Log the communication in the Communication Log section of the complaint form.
1.2	Review Submitted Documentation The assigned investigator shall review all submitted documents including the well completion report, registration records, and any water level data. Identify any missing documentation and contact the complainant to obtain it. Check the LPNNRD and Nebraska DWEE databases for registration records of both the complainant's well and any suspected interfering wells.
1.3	Identify Permit Stipulations Pull permit records for all potentially involved wells. Flag any well that carries an interference or shut-off stipulation. Document this in the case file. Note: the existence of a shut-off stipulation does not authorize immediate action.
1.4	Inform Suspected Interfering Well Owner Within 2 business days of completing Step 1.3, the assigned investigator shall provide notice to the owner of any well identified as potentially involved in the

	complaint. Notice should be provided by phone, email, or letter. The notice shall inform the owner that a complaint has been received and their well has been identified for review, that no determination of fault or interference has been made, that no action is required at this time, and that LPNNRD staff may request access to their property or pump records as part of the investigation. If the well's permit contains a shut-off or interference stipulation, the notice shall reference that stipulation without implying it will be enforced. Staff shall document the date of notice and method of delivery in the Communication Log section of the complaint form.
--	---

PHASE 2 — FIELD INVESTIGATION

2.1	Initial Site Visit The investigator shall conduct an initial on-site visit to the complainant's property. • Verify well construction details against the submitted completion report. • Photograph the wellhead, controls, and surrounding area. • Interview the complainant to obtain additional details not captured in the written complaint. • Measure the static (non-pumping) water level in the complainant's well using a calibrated electric tape or steel tape. If the complainant's well is a domestic or municipal well, this must be done by a certified well driller or well inspector so proper disinfection protocols are adhered to. • Compare measured levels to historical records if available.
2.2	Site Visit with Certified Well Inspector or Well Driller If the initial investigation does not clearly identify the cause, or the well is a domestic or municipal well, the investigator may encourage a more thorough inspection with a certified well inspector or well driller. Scheduling and paying for a site visit from a certified well inspector or well driller is the responsibility of the complainant and should be clearly communicated. The LPNNRD will not schedule or pay for this service. The certified well driller or inspector should do the following: • Determine and document whether any of the following causes may explain the complaint: ○ Pump or mechanical failure ○ Well screen issues ○ Regional water table decline due to drought or seasonal conditions ○ Water quality change unrelated to neighboring pumping • Measure the static (non-pumping) water level in the complainant's well using a calibrated electric tape or steel tape. • Compare measured levels to historical records if available.

	• If deemed necessary, perform a camera down-hole inspection. This inspection will assess casing condition and continuity, screen integrity and position, the presence of sediment or debris, and signs of casing corrosion or clogging. • Provide a written inspection report to add to the case file.
2.3	Hydrogeological Review For complex cases involving multiple affected wells, regional aquifer concerns, significant economic impacts, or disagreement between parties, the LPNNRD will recommend that hydrogeologist conduct an independent technical review. The complainant will be responsible for any expenses incurred for a hydrogeological review and should be clearly communicated. The hydrogeologist shall evaluate aquifer characteristics in the affected area, review all water level data collected, assess the hydraulic relationship between wells, and provide a written opinion. The hydrogeologist's report shall be obtained before final determination in these situations.

PHASE 3 — RESOLUTION

3.1	Compilation of Findings The investigator shall compile the complaint form, field data, inspection reports, and any expert opinions obtained during the investigation into a written Findings Summary. The Findings Summary is a factual record of data collected by LPNNRD staff and does not constitute a formal determination of fault, causation, or liability. The Summary shall be reviewed by the LPNNRD Water Committee (and board?) prior to distribution.
3.2	Notification of Findings The Findings Summary shall be provided in writing to the complainant and any implicated well operator(s) within 10 business days of the conclusion of the investigation. The notification shall make clear that the LPNNRD is providing factual data only, that no regulatory action is being taken at this time (except where a shut-off stipulation applies per Step 3.3), and that resolution of any dispute between the parties is a civil matter. The parties are encouraged to seek independent legal counsel if they wish to pursue further action.
3.3	Resolution — Wells WITH Shut-Off Stipulation If the Findings Summary indicates that interference is likely and the permit for the implicated well contains a shut-off or reduced-pumping stipulation, the LPNNRD may enforce that stipulation in accordance with its terms. Any enforcement action shall be based solely on the data collected during the investigation and shall reference the specific permit condition being applied. Prior to issuing any order, the LPNNRD shall provide the implicated well owner written notice of the proposed action, the data supporting it, and an opportunity

	to respond within a reasonable timeframe. Orders shall be delivered via certified mail and shall include information on the appeal process.
3.4	Resolution — Wells WITHOUT Shut-Off Stipulation Where the implicated well does not carry a shut-off stipulation, the LPNNRD's role ends with delivery of the Findings Summary. The LPNNRD will not mediate between parties, make recommendations regarding remediation, or take regulatory action. The parties may use the Findings Summary as they see fit in pursuing a civil resolution. LPNNRD staff shall document that findings were delivered and shall not provide further opinion on causation or liability.
3.5	Case Closure A case shall be formally closed when the Findings Summary has been delivered to all parties, a stipulation-based order has been issued (if applicable), or the complainant withdraws the complaint. A brief closure letter shall be sent confirming that LPNNRD's role in the matter is complete.



WELL INTERFERENCE COMPLAINT FORM

To be completed by Lower Platte North Natural Resources District Staff

Complaint Number:

Date Received:

Received By:

SECTION 1- LANDOWNER INFORMATION

Full Name:

Mailing Address:

City:

State:

Zip:

County:

Primary Phone:

Email Address:

SECTION 2- LANDOWNER WELL INFORMATION

2A. Well Type

Primary Well Use:

☐ Domestic

☐ Irrigation

☐ Municipal

☐ Livestock

☐ Industrial/Commercial

☐ Other

If 'Other', please describe:

Well Construction Type:

☐ Drilled

☐ Bored

☐ Sand Point/Driven

2B. Well Identification

Note: Resources you can use to locate well information include the following Nebraska Department of Water, Energy, and Environment (NDWEE) sites:

- Well Search page- <https://nednr.nebraska.gov/dynamic/wells/wells>
- Groundwater Interactive Map- <https://dwee.nebraska.gov/groundwater/groundwaterinteractivemap>

DWEE Well Registration Number:

A- _____ or G- _____

Well Location (Legal Description):

_____ of _____ Section _____ T _____ N R _____ E / W

Well GPS Coordinates

Lat. _____ Long. _____

2C. Well Details

Well Drilling Contractor:

Well Driller's License #:

Well Drilling Date:

Well Depth:

Initial Static Water Level:

Current Water Level (if known)

Pump Depth:

Top of Screen:

Bottom of Screen:

Screen Slot Size:

Pump Manufacturer:

Year Installed:

Rated Capacity (GPM):

Motor Horsepower:

Date of Last Service or Inspection:

Inspected or Serviced by:

SECTION 3- DESCRIPTION OF WELL INTERFERENCE

Type of Issue:

☐ Reduced flow

☐ Well went dry

☐ Sand or sediment in water

☐ Turbid / discolored water

☐ Other

If 'Other', please describe:

Date issue began:

Frequency:

☐ Continuous

☐ Intermittent

Describe the issue in detail (when it occurs, duration, frequency):

Describe what you believe is causing the issue:

SECTION 4- SUSPECTED INTERFERING WELL

Note: If you believe additional wells may be contributing to interference, you may attach additional information to this complaint form.

Owner Name (if known)

Owner Address (if known)

DWEE Well Registration Number:

 A- _____ or G- _____

Well Location (Legal Description):

 _____ of _____ Section _____ T _____ N R _____ E / W

Well GPS Coordinates

 Lat. _____ Long. _____

Estimated Depth:

Estimated Capacity (GPM):

SECTION 5- DOCUMENTATION

Please include the following documents with this form. Incomplete submissions may delay the investigation.

Required documents checklist:

- | | |
|--|---|
| ☐ Well completion report/ driller's log | ☐ DWEE well registration record |
| ☐ Pump service or inspection records | ☐ Pump test data |
| ☐ Photos of well and surrounding area | ☐ Map or aerial photo showing well locations |

SECTION 6- CERTIFICATION AND SIGNATURE

By signing below, the complainant certifies that all information provided is true and accurate to the best of their knowledge, and that they consent to Lower Platte North Natural Resources District staff and/or contractors accessing their property and well for investigation purposes.

Complainant Signature

Printed Name

Date

Note: Upon receipt of your complaint, the LPNNRD will log your submission, notify the owner of any suspected interfering well, and conduct a field investigation to measure water levels and assess the cause. No action will be taken against any well operator until interference has been verified. You will receive written notification of the findings and available resolution options once the investigation is complete.

SECTION 7- COMMUNICATION LOG

Note: For internal use by LPNNRD staff only.

Date:		Time:	
Staff Name:		Contact Name:	
Contacted Method:	☐ In Person	☐ Phone	☐ Email ☐ Letter
Notes:			

Date:		Time:	
Staff Name:		Contact Name:	
Contacted Method:	☐ In Person	☐ Phone	☐ Email ☐ Letter
Notes:			

Date:		Time:	
Staff Name:		Contact Name:	
Contacted Method:	☐ In Person	☐ Phone	☐ Email ☐ Letter
Notes:			



WELL INTERFERENCE RESPONSE PROTOCOL

This protocol establishes the standard process for reviewing, investigating, and resolving well interference complaints filed with the Lower Platte North Natural Resources District (LPNNRD). All staff involved in complaint investigations shall follow these procedures. This protocol applies to all well types including domestic, irrigation, livestock, municipal, and industrial/commercial wells.

IMPORTANT: No regulatory action, including shut-off orders, shall be issued against any well operator until the investigation is complete and interference is verified. This applies to all wells, including those with shut-off stipulations in their permits. Premature shut-off requests may create legal liability and may not be supported by evidence.

PHASE 1 — INTAKE & INITIAL REVIEW

1.1	Log and Acknowledge the Complaint Upon receipt, assign a unique complaint number and log all information in the LPNNRD complaint tracking spreadsheet. Provide acknowledgment of receipt of the complaint within one business day through email, phone, or letter. Include the assigned complaint number, the name of the assigned investigator, and an estimated timeline for initial review. Log the communication in the Communication Log section of the complaint form.
1.2	Review Submitted Documentation The assigned investigator shall review all submitted documents including the well completion report, registration records, and any water level data. Identify any missing documentation and contact the complainant to obtain it. Check the LPNNRD and Nebraska DWEE databases for registration records of both the complainant's well and any suspected interfering wells.
1.3	Identify Permit Stipulations Pull permit records for all potentially involved wells. Flag any well that carries an interference or shut-off stipulation. Document this in the case file. Note: the existence of a shut-off stipulation does not authorize immediate action.
1.4	Inform Suspected Interfering Well Owner Within 2 business days of completing Step 1.3, the assigned investigator shall provide notice to the owner of any well identified as potentially involved in the

	complaint. Notice should be provided by phone, email, or letter. The notice shall inform the owner that a complaint has been received and their well has been identified for review, that no determination of fault or interference has been made, that no action is required at this time, and that LPNNRD staff may request access to their property or pump records as part of the investigation. If the well's permit contains a shut-off or interference stipulation, the notice shall reference that stipulation without implying it will be enforced. Staff shall document the date of notice and method of delivery in the Communication Log section of the complaint form.
--	---

PHASE 2 — FIELD INVESTIGATION

2.1	Initial Site Visit The investigator shall conduct an initial on-site visit to the complainant's property. • Verify well construction details against the submitted completion report. • Photograph the wellhead, controls, and surrounding area. • Interview the complainant to obtain additional details not captured in the written complaint. • Measure the static (non-pumping) water level in the complainant's well using a calibrated electric tape or steel tape. If the complainant's well is a domestic or municipal well, this must be done by a certified well driller or well inspector so proper disinfection protocols are adhered to. • Compare measured levels to historical records if available.
2.2	Site Visit with Certified Well Inspector or Well Driller If the initial investigation does not clearly identify the cause, or the well is a domestic or municipal well, the investigator may encourage a more thorough inspection with a certified well inspector or well driller. Scheduling and paying for a site visit from a certified well inspector or well driller is the responsibility of the complainant and should be clearly communicated. The LPNNRD will not schedule or pay for this service. The certified well driller or inspector should do the following: • Determine and document whether any of the following causes may explain the complaint: ○ Pump or mechanical failure ○ Well screen issues ○ Regional water table decline due to drought or seasonal conditions ○ Water quality change unrelated to neighboring pumping • Measure the static (non-pumping) water level in the complainant's well using a calibrated electric tape or steel tape. • Compare measured levels to historical records if available.

	• If deemed necessary, perform a camera down-hole inspection. This inspection will assess casing condition and continuity, screen integrity and position, the presence of sediment or debris, and signs of casing corrosion or clogging. • Provide a written inspection report to add to the case file.
2.3	Hydrogeological Review For complex cases involving multiple affected wells, regional aquifer concerns, significant economic impacts, or disagreement between parties, the LPNNRD will recommend that hydrogeologist conduct an independent technical review. The complainant will be responsible for any expenses incurred for a hydrogeological review and should be clearly communicated. The hydrogeologist shall evaluate aquifer characteristics in the affected area, review all water level data collected, assess the hydraulic relationship between wells, and provide a written opinion. The hydrogeologist's report shall be obtained before final determination in these situations.

PHASE 3 — RESOLUTION

3.1	Compilation of Findings The investigator shall compile the complaint form, field data, inspection reports, and any expert opinions obtained during the investigation into a written Findings Summary. The Findings Summary is a factual record of data collected by LPNNRD staff and does not constitute a formal determination of fault, causation, or liability. The Summary shall be reviewed by the LPNNRD Water Committee and advanced to the LPNNRD Board prior to distribution to involved parties.
3.2	Notification of Findings The Findings Summary shall be provided in writing to the complainant and any implicated well operator(s) within 10 business days of the conclusion of the investigation and approval by the board. The notification shall make clear that the LPNNRD is providing factual data only, that no regulatory action is being taken at this time (except where a shut-off stipulation applies per Step 3.3), and that resolution of any dispute between the parties is a civil matter. The parties are encouraged to seek independent legal counsel if they wish to pursue further action.
3.3	Resolution — Wells WITH Shut-Off Stipulation If the Findings Summary indicates that interference is likely and the permit for the implicated well contains a shut-off or reduced-pumping stipulation, the LPNNRD may enforce that stipulation in accordance with its terms. Any enforcement action shall be based solely on the data collected during the investigation and shall reference the specific permit condition being applied. Prior to issuing any order, the LPNNRD shall provide the implicated well owner

	written notice of the proposed action, the data supporting it, and an opportunity to respond within a reasonable timeframe. Orders shall be delivered via certified mail and shall include information on the appeal process.
3.4	Resolution — Wells WITHOUT Shut-Off Stipulation Where the implicated well does not carry a shut-off stipulation, the LPNNRD's role ends with delivery of the Findings Summary. The LPNNRD will not mediate between parties, make recommendations regarding remediation, or take regulatory action. The parties may use the Findings Summary as they see fit in pursuing a civil resolution. LPNNRD staff shall document that findings were delivered and shall not provide further opinion on causation or liability.
3.5	Case Closure A case shall be formally closed when the Findings Summary has been delivered to all parties, a stipulation-based order has been issued (if applicable), or the complainant withdraws the complaint. A closure letter shall be sent to all involved parties confirming that LPNNRD's role in the matter is complete.



September 9, 2025
Invoice No: 31268

Invoice Total:	\$5,367.25
-----------------------	-------------------

Daryl Andersen
Lower Platte North NRD
511 Commercial Park Road
Wahoo, NE 68066-0126

Please Remit To:
LRE Water
1221 Auraria Pkwy
Denver, CO 80204
(303) 455-9589
billing@LREwater.com

Invoice Email: dandersen@lpnnrd.org
Project No.: 5036LPN06
Project Name: LPNNRD_SQS Reevaluation Study

Professional Services through August 30, 2025

Task 01 Data Collection & Project Management

Professional Personnel

	Hours	Rate	Amount	
Hume, David	3.50	255.00	892.50	
Mohr, Jonathan	6.25	207.00	1,293.75	
Totals	9.75		2,186.25	
Total Labor				\$2,186.25
			Total this Task	\$2,186.25

Task 02 Desktop Assessment

Professional Personnel

	Hours	Rate	Amount	
Libra, Jon	6.00	151.00	906.00	
Lindgren, Rachel	1.50	185.00	277.50	
Sopiwnik, Roscoe	8.50	235.00	1,997.50	
Totals	16.00		3,181.00	
Total Labor				\$3,181.00
			Total this Task	\$3,181.00

Total this Invoice	\$5,367.25
---------------------------	-------------------

Billing Backup

Tuesday, September 9, 2025

LRE Water

Invoice <Draft> Dated 9/9/2025

11:13:36 AM

Task	01	Data Collection & Project Management
------	----	--------------------------------------

Professional Personnel

			Hours	Rate	Amount
10172	000 - Hume, David	8/5/2025	1.50	255.00	382.50
10172	000 - Hume, David	8/19/2025	2.00	255.00	510.00
10217	000 - Mohr, Jonathan	8/4/2025	1.00	207.00	207.00
10217	000 - Mohr, Jonathan	8/5/2025	1.50	207.00	310.50
10217	000 - Mohr, Jonathan	8/8/2025	.25	207.00	51.75
10217	000 - Mohr, Jonathan	8/15/2025	.50	207.00	103.50
10217	000 - Mohr, Jonathan	8/19/2025	3.00	207.00	621.00
	Totals		9.75		2,186.25
	Total Labor				\$2,186.25

Total this Task	\$2,186.25
------------------------	-------------------

Task	02	Desktop Assessment
------	----	--------------------

Professional Personnel

			Hours	Rate	Amount
10199	010 - Libra, Jon	8/29/2025	6.00	151.00	906.00
10391	004 - Lindgren, Rachel	8/18/2025	1.50	185.00	277.50
10174	000 - Sopiwnik, Roscoe	7/16/2025	.25	235.00	58.75
10174	000 - Sopiwnik, Roscoe	8/4/2025	.25	235.00	58.75
10174	000 - Sopiwnik, Roscoe	8/5/2025	1.00	235.00	235.00
10174	000 - Sopiwnik, Roscoe	8/18/2025	2.25	235.00	528.75
10174	000 - Sopiwnik, Roscoe	8/19/2025	2.75	235.00	646.25
10174	000 - Sopiwnik, Roscoe	8/29/2025	2.00	235.00	470.00
	Totals		16.00		3,181.00
	Total Labor				\$3,181.00

Total this Task	\$3,181.00
------------------------	-------------------

Total this Project	\$5,367.25
---------------------------	-------------------

Total this Report	\$5,367.25
--------------------------	-------------------

Invoice

Bill To
Lower Platte North NRD 1620 County Road 17 Wahoo, NE 68066

Date	Invoice #
8/19/2026	232

Quantity	Description	Rate	Amount
	Lower Platte River Basin Water Management Plan Coalition Dues - FY 2027	10,000.00	10,000.00
Please remit payment to NARD Research - 8100 S. 15th St., Suite B, Lincoln, NE 68512		Total	\$10,000.00



County Road 10

County Road 10

County Road 10

County Road 10

County Road 10

County Road 10

adij

WSF APPLICATION NO. 10014
LOWER PLATTE NORTH NRD
Developing a Truly Sustainable Solution to Nitrate Contamination
in the Drinking Water Supply throughout Lower Platte North NRD

The Lower Platte North NRD (LPNNRD) is asking for a scope change to add Reverse Osmosis (RO) system cost share, expand locations within the district, and to purchase soil probing equipment to determine the effectiveness of best management practices that have

been implemented as part of this project to improve nitrate contamination in the drinking water supply within the district.

In December 2022, the LPNNRD received grant #10014 to conduct a hydrogeological study and implement best management practices (BMPs). The best management practices were implemented in the red highlighted area shown in Figure 1 with the hydrological study conducted district wide for the LPNNRD to evaluate other areas of concern.

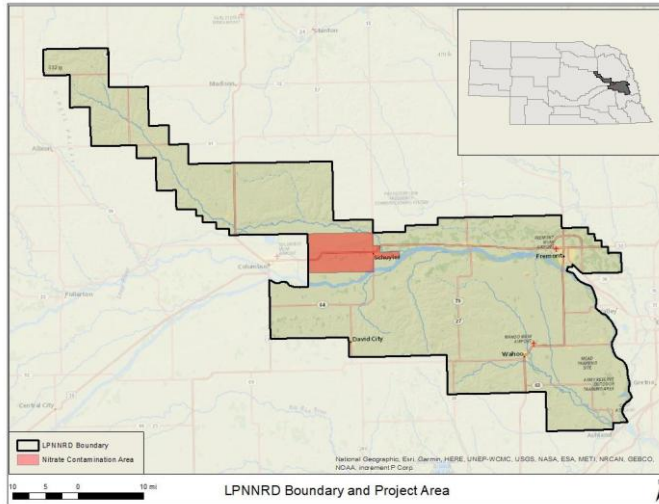


Figure 1. LPNNRD boundary with project area highlighted in red.

As of September 2026, the BMPs that are currently being cost-shared in the area are almost complete. While the gravity to pivot/ sub-surface drip (SDI) received a lot of interest over the last 2 years, cooperators were not able to receive NRCS funding. As these grant funds were designed to work in conjunction with NRCS funding, the LPNNRD was not able to spend all of the grant funds.

The LPNNRD would like to change the scope of the WSF grant to encompass several new relevant initiatives. Over the two-year period of this project, the NRD increased awareness of contamination issues by conducting domestic well water samplings in the area shown which resulted in increased interest in reverse osmosis systems (Figure 2). Separately, the

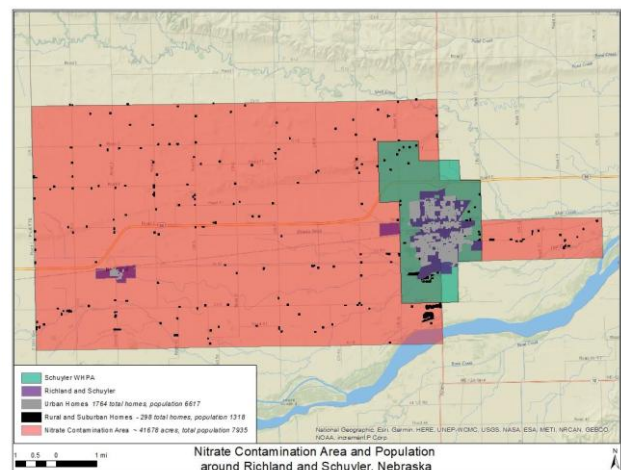
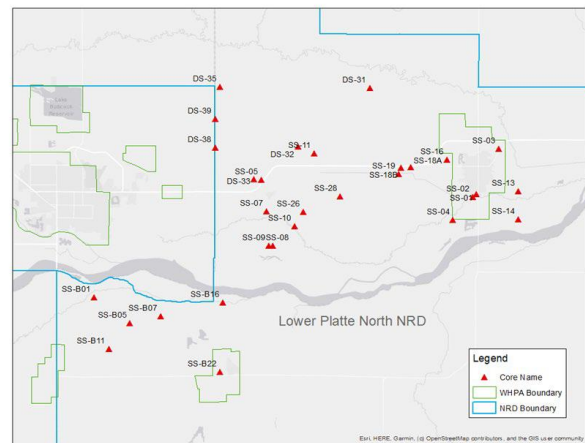


Figure 2. Nitrate Contamination Area around Richland and Schuyler, Nebraska with domestic well locations shown.

Lastly, the LPNNRD would like to conduct a deep soil core study (up to 15 feet) of the vadose zone compared to baseline levels which were collected in 2021. This will help determine if the BMPs that have been implemented have decreased the leaching of nitrates and other contaminants below the root zone and into the groundwater. The original study was conducted in partnership with Dan Snow from UNL in the study area shown in Figure 3. Staff would go back to these sites to re-analyze the nitrate levels to compare results and determine movement within the vadose zone, with particular focus given to fields that have had gravity to pivot conversions.



A full-page photograph showing a worker in a blue jumpsuit and white hard hat operating a 540MT cart-mounted hammer in a field. The machine is white and mounted on a cart with a large black tire. The worker is holding a control lever. In the background, there is a flat, open field under a cloudy sky. To the right, another piece of equipment is visible on a cart.

As part of this scope change, the LPNNRD requests that WSF funds be permitted to be utilized to purchase equipment similar to that shown in Figure 4 that can probe below the root zone and allow LPNNRD staff to conduct coring in numerous locations within a field and/or area. The LPNNRD would go out for quotes before purchasing the equipment.

In summary, the LPNNRD is requesting a scope change to add RO units as a cost share item for the purpose of allowing citizens to obtain drinking water below the nitrate contamination level. Additionally, the NRD would like to increase the boundary to include other areas of concern within the district. Lastly, the LPNNRD would like to purchase equipment that will allow staff to conduct soil coring for the leaching beyond the root zone.



QUOTE NO:	20053776
DATE:	06/10/2024
CUSTOMER NO:	5012471
TERMS:	Payment Prior to Shipment
CUSTOMER PO:	RFQ 540MT

Lower Platte South NRD
3125 Portia St
Lincoln, NE 83581
USA

**Lower Platte South NRD
3125 Portia St
Lincoln, NE 83581
USA**

[illegible]

Quotation Subtotal	\$54,067.89
Shipping/Handling	1,573.00
Sales Tax	Not Quoted

Quotation Total (USD)	\$55,640.89



A Division of Kejr, Inc. • FID: 48-1024517
1835 Wall St, Salina, KS 67401
P: 785-825-1842 • F: 785-825-2097

Q U O T E

QUOTE NO:	20053777
DATE:	06/10/2024
CUSTOMER NO:	5012471
TERMS:	Payment Prior to Shipment
CUSTOMER PO:	Macro Core Sampler 1.25

SOLD TO

**Lower Platte South NRD
3125 Portia St
Lincoln, NE 83581
USA**

SHIP TO

**Lower Platte South NRD
3125 Portia St
Lincoln, NE 83581
USA**

ITEM	MAT NO	DESCRIPTION	QTY	UNIT PRICE	EXT PRICE
1	213748	1.25 DRIVE CAP THD GH40 SERIES	2	47.34	94.68
2	213769	1.25 PROBE ROD 48"	5	141.69	708.45
3	213758	1.25 PROBE ROD 24"	1	129.02	129.02
4	213751	1.25 PULL CAP	2	62.87	125.74
5	205372	MC5 DRIVE HEAD 1.25 PIN W/ 1/8 BORE	2	98.19	196.38
6	204218	MC5 SAMPLE TUBE 48"	2	146.40	292.80
7	204500	MC5 CUTTING SHOE 1.5" ID EXT SHANK	1	84.38	84.38
8	206460	MC5 CUTTING SHOE 1.35" ID EXT SHANK	1	90.39	90.39
9	204985	MC5 CUTTING SHOE 1.25" ID EXT SHANK	1	94.38	94.38
10	600993	MC/MC5 LINER PVC 48" (66)	2	146.97	293.94
11	213845	MC/MC5 LINER CUTTER	1	192.74	192.74
12	213843	MC/MC5 VINYL END CAPS (66 PR)	2	41.93	83.86
13	601003	BRUSH NYLON MC/MC5 TOOLS	2	12.98	25.96
14	201352	EXTENSION ROD SS 60"	1	41.33	41.33
15	213837	EXTENSION ROD HANDLE	1	28.41	28.41

Price valid till : 04/28/2025

Quotation Subtotal
Shipping/Handling
Sales Tax

\$2,482.46
Not Quoted
Not Quoted

Quotation Total (USD)

\$2,482.46





PowerProbe™

Equipping The World To Sample The Earth

AMS, INC
105 Harrison St / American Falls, ID 83211
Ph # 208-226-2017 / Fax # 208-226-2421
www.ams-samplers.com

Sales Manager: Ryan Anderson
Direct # 800-635-7330
Mobile # 208-406-9341
Email: ryana@ams-samplers.com

Requested By:

Lower South Platte NRD

Lincoln, NE

Customer Contact:

Contact: Tyler Benal

PH# 402-875-0542

Email: tbenal@lpsnrd.org



Quote #	Terms	Delivery Date (estimated)	Ship Via	Ref #	Date Quoted	Quote Expires
051226-RA	Net 30 (balance before ship)	4 - 6 Weeks From Date of Deposit	Pickup AM. Falls (pickup or delivery)		5/12/20226	90 Days
Line	Part #	Description	QTY	UNIT PRICE	LINE TOTAL	
1	9120.RAP	9120-RAP PowerProbe Standard Features: 22.5 HP Kohler Gas Engine, air cooled with electric start Hydraulic System: (2000 PSI @ 12 GPM) Frame Dims: 48" wide x 42" long / Total Weight (estimated): 1200 lbs 60" Mast Stroke / Down Force: 19,000 lbs / Pullback: 24,000 lbs Standard Equipment Options	1	\$32,795.00	\$32,795.00	
2	# 5051.50	Hydraulic Hammer (200 ft/lb w/ 2600 BPM adjustable)	1	\$4,500.00	\$4,500.00	
3	# 58975	Heavy Duty Hammer Anvil	1	\$416.60	\$416.60	
4	# 5051.30	Auger Upgrade 1,000 ft/lb Auger Motor Assembly, 2" Hex Output Shaft, U-Joint Swivel 1 5/8" female hex x 2" female hex adaptor	0	\$6,250.00	\$0.00	
Equipment Sub-Total:					\$37,711.60	
5	#Dual-Tube	Tooling Package 2 3/4" OD x 36' Dual-Tube Sampling Package (4' length extensions) (see attached sheet for details)	1	\$5,121.45	\$5,121.45	
6	#4.50Auger	4 1/2" Continious Flight Auger Kit, 36' (see attached sheet for details)	0	\$4,493.88	\$0.00	
Tooling Sub-Total:					\$5,121.45	
7	#Installation	Transport Vehicle Mounting, Installation, & Setup to Customers Vehicle	1	\$3,895.00	\$3,895.00	
UTV Sub-Total:					\$3,895.00	

Terms / Conditions: All pricing shown in US Dollar and subject to change.
Quotation does not include customs, taxes, import duties, shipping, packing, insurance.
Quotation valid for 30 days, after 30 days prices may vary due to exchange rates.

Client agrees to sale terms and conditions by AMS Inc.

Deposit requirements are stated above. Balance due prior to shipment or per sales contract.

Delivery date is determined from the date of receipt of deposit.

Quote Sub-Total:	\$46,728.05
(Estimated Tax):	EXEMPT
Shipping & Handling:	TBD
Quote Total:	\$46,728.05
Deposit Amount:	\$0.00
Balance at Completion:	\$46,728.05



PowerProbe™

Equipping The World To Sample The Earth

AMS, INC
105 Harrison St / American Falls, ID 83211
Ph # 208-226-2017 / Fax # 208-226-2421
www.ams-samplers.com

Sales Manager: Ryan Anderson
Direct # 800-635-7330
Mobile # 208-406-9341
Email: ryana@ams-samplers.com

Requested By:

Lower South Platte NRD

Lincoln, NE



Customer Contact:

Contact: Tyler Benal

PH# 402-875-0542

Email: tbenal@lpsnrd.org

Quote #	Terms	Delivery Date (estimated)	Ship Via	Ref #	Date Quoted	Quote Expires
051226-RA	Net 30 (balance before ship)	4 - 6 Weeks From Date of Deposit	Pickup AM. Falls (pickup or delivery)		5/12/20226	90 Days
Line	Part #	Description	QTY	UNIT PRICE	LINE TOTAL	
External & Internal Dual Tube Extensions						
1	# 5010.04	2 3/4"OD X 4' DP Extension - (outer dual tube rod)	3	\$270.00	\$810.00	
2	# 5010.02	2 3/4"OD x 2' DP Extension - (outer dual tube rod)	1	\$220.00	\$220.00	
3	# 5005.74	1 1/4" x 4' DP Inner Extension - (inner dual tube rod)	3	\$180.00	\$540.00	
4	# 5005.72	1 1/4" x 2' DP Inner Extension - (inner dual tube rod)	1	\$145.00	\$145.00	
External & Internal Drive Heads & Pull Caps / Liner Grabber						
5	# 58041	2 3/4" Threadless Drive Head	1	\$255.90	\$255.90	
6	# 58042	2 3/4" Drive Head Sleeve	2	\$148.78	\$297.56	
7	# 5010.35	2 3/4" Pull Cap	1	\$160.75	\$160.75	
8	# 5006.56	1 1/4" Internal Thread Protector Cap - (small drive head style)	2	\$89.28	\$178.56	
9	# 5005.80	1 1/4" Pull Cap - (internal pull cap)	1	\$113.08	\$113.08	
10	# 5010.51	2" Liner Grabber w/ 1 1/4" threads - (attaches to PVC liners)	2	\$154.74	\$309.48	
External & Internal Drive Tips						
11	# 5010.11	2 3/4" External Drive Tip - (Standard/Core Catcher) indication: no lines	1	\$142.84	\$142.84	
12	# 5010.12	2 3/4" External Drive Tip - (Clay) indication: no lines	1	\$142.84	\$142.84	
Dual Tube Accessories						
13	# 5014.03	1 1/4" DP Extension Holder	1	\$88.70	\$88.70	
14	# 5014.00	2 3/4" DP Extension Holder	1	\$88.70	\$88.70	
15	# 5010.48	2"OD x 4' Clear PVC Liners (48 per case / sold per case) (2 cases total)	96	\$9.77	\$937.92	
16	# 418.10	2" Plastic End Cap - (to cap each end of liner to retain sample)	100	\$0.75	\$75.00	
17	# 61877	2" Core Catcher - (fits inside end of liner to retain soil while sampling)	25	\$1.85	\$46.25	
18	# 52565	G3A Liner Loading Platform - (steel platform to load liners to grabber)	1	\$88.70	\$88.70	
19	# 58145	2" DP Liner Splitter - (used to cut liner in half lengthwise)	1	\$208.30	\$208.30	
20	# 5606.10	Deck Mount Liner Cutting Tray - (holds liner to use splitter to cut in half)	1	\$271.87	\$271.87	
					Tooling Sub-Total:	\$5,121.45
					Tooling Sub-Total:	\$5,121.45



Easily access remote sites with cart mounted 540MT with 54-inch stroke and GH40 hammer.