



Northern Natural Gas Company
P.O. Box 3330
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402 398-7200

October 6, 2025

Via eFiling

Ms. Debbie-Anne Reese, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Northern Natural Gas Company
Northern Lights 2025
Docket No. CP24-60-000
Bi-weekly Status Report No. 16

Dear Ms. Reese:

Pursuant to Condition 8 of the Order Issuing Certificate and Approving Abandonment issued by the Federal Energy Regulatory Commission February 19, 2025, Northern Natural Gas hereby submits for filing in the above-referenced docket its biweekly environmental inspector report for the period ending September 28, 2025.

Any questions regarding the filing should be directed at the undersigned at (402) 398-7138.

Respectfully submitted,

/s/ Donna Martens

Donna Martens
Senior Regulatory Analyst

Northern Natural Gas Company
Northern Lights 2025 (CP24-60-000)
Biweekly Status Report No. 16
Period Ending September 28, 2025

PROJECT DESCRIPTION

Northern Natural Gas (Northern) will construct and operate the Project, which will consist of (1) a 3.00-mile extension of its 36-inch-diameter Lake Mills to Albert Lea E-line; (2) a 2.42-mile extension of its 30-inch-diameter Elk River 3rd branch line; (3) a non-contiguous 1.90-mile extension of its 30-inch-diameter Farmington to Hugo C-line¹; (4) a 1.28-mile extension of its 8-inch-diameter Tomah branch line loop; (5) minor modifications to its existing La Crescent compressor station; and (6) aboveground facilities including a launcher, receiver and tie-in valve settings. All Project components are located in various counties in Minnesota and Wisconsin.

FEDERAL AUTHORIZATION STATUS

Northern has received all federal and state permits required under federal law for the Project.

Lake Mills to Albert Lea E-line

Northern will construct and operate an approximately 3.00-mile extension of its 36-inch-diameter MNM80105 Lake Mills to Albert Lea E-line in Freeborn County, Minnesota. Northern will remove the existing aboveground valve setting located in Section 16, Township 101 North, Range 22 West (Section 16, T101N, R22W), Freeborn County, Minnesota. Northern will construct and operate an aboveground valve setting at the terminus of the new extension on the north side of 165th Street in Section 33, T102N, R22W, Freeborn County, Minnesota.

Environmental Training

One contractor will construct the Lake Mills to Albert Lea E-line and associated aboveground facilities. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: K & K, Inc. (K&K)

Overall Construction Start Date: Commenced April 21, 2025

Environmental Training Conducted: This reporting period: 0 Total to date: 40

Construction Status: K&K completed fabrication of 36-inch-diameter tie-in piping north of 165th Street. K&K continued sandblasting and coating mainline pipe south of 140th Street. K&K completed removal and stockpiling of topsoil, for temporary extra workspace, north of 140th Street. K&K continued bringing subsoil to grade north of County Road 9/135th Street². K&K continued bringing subsoil to grade south of 165th Street. K&K completed lowering-in 36-inch-diameter mainline pipe south of 140th Street. K&K completed mainline trench tie-ins south of 140th Street. K&K completed lowering-in mainline pipe north and south of 140th Street. Hodgman Drainage Company, Inc. (Hodgman), subcontractor for K&K, commenced drain tile repairs south of 165th Street. K&K completed installation of 36-inch-diameter test header at the south end

¹ The total pipeline length of the Farmington to Hugo C-line extension was reduced from 1.91 miles to 1.90 miles as described in Northern's implementation plan and response to the conditions of the order (condition 5) filed with the Federal Energy Regulatory Commission (FERC) March 6, 2025.

² County Road 9 is also referred to as 135th Street.

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for the E-line extension at milepost (MP) 31.2 south of County Road 9/135th Street. K&K continued backfilling the trench north and south of 140th Street. K&K commenced subsoil decompaction and topsoil restoration north of County Road 9/135th Street. K&K successfully completed an eight-hour hydrostatic pressure test for the D-line tie-in piping north of 165th Street.

Construction Modifications:

No construction modifications occurred during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

No stream crossings or other environmentally sensitive areas were impacted during this reporting period.

Rain Events

One rain event of 0.50 inch or greater occurred during this reporting period. One rain event of 0.50 inch occurred September 16, 2025. To date, the project has received 34.95 inches of precipitation.

Lake Mills to Albert Lea E-line Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/16/2025	99%	Survey is ongoing
Clearing	N/A	N/A	N/A
Grading	4/21/2025	5/30/2025	Grading is complete
Stringing	5/5/2025	5/19/2025	Stringing is complete
Welding	5/16/2025	99%	Welding is ongoing
Ditching	6/6/2025	99%	Ditching is ongoing
Lower-in	6/6/2025	98%	Lowering-in is ongoing
Backfill	6/6/2025	74%	Backfill is ongoing
Topsoil Restoration	9/27/2025	3%	K&K commenced topsoil restoration
Removal of existing E-line tie-over valve setting	5/15/2025	15%	K&K completed excavation
New Lake Mills tie-in valve setting	6/15/2025	15%	K&K completed excavation
Clean-up			
Seeding	6/17/2025	20%	Seeding is ongoing
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Complete welding line pipe
2. Continue sandblasting and coating
3. Complete trenching
4. Complete lowering-in
5. Complete backfill
6. Continue restoration
7. Complete pressure test

Lake Mills to Albert Lea E-line Related Spill

No spills occurred during this reporting period.

Elk River 3rd Branch Line

Northern will construct and operate an approximately 2.42-mile extension of its 30-inch-diameter MNB87703 Elk River 3rd branch line in Washington County, Minnesota. The new extension will be tied in below ground approximately 260 feet north of the current terminus in Section 36, T32N, R21W, Washington County, Minnesota; the existing aboveground valve setting located on the east side of July Avenue in Section 36, T32N, R21W, Washington County, Minnesota, will be removed. The downstream tie-in to both Northern's 20-inch-diameter MNB87701 Elk River branch line and 20-inch-diameter MNB87702 Elk River loop will be completed with a new valve setting at the west side of Henna Avenue North in Section 3, T31N, R21W, Washington County, Minnesota.

Environmental Training

One contractor will construct the Elk River 3rd branch line extension. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: Otis Minnesota Services, LLC (Otis)

Overall Construction Start Date: Commenced April 24, 2025

Environmental Training Conducted³: This reporting period: 0 Total to date: 90

Construction Status:

Otis continued stringing, bending, welding and coating the line pipe. On September 23, 2025, Mears Group Inc. (Mears), a third-party horizontal directional drill (HDD) sub-contractor for Otis, commenced the removal of the bore pipe on HDD P4-5 due to the bore pipe hanging up during the pull back. North Country Drilling, LLC (North Country), a third-party HDD sub-contractor for Otis, completed pulling in the pipe for HDD P4-1. Otis completed ditching from MP 1.78 to MP 1.85 and from MP 2.13 to MP 2.15. Lowering-in was completed from MP 1.78 to MP 1.85 and from MP 2.13 to MP 2.15. Backfill was completed from MP 1.67 to MP 1.69 and from MP 1.78 to MP 1.85 and commenced from MP 2.13 to MP 2.15. Otis constructed the sound wall in the Hugo compressor station for the temporary pipeline gas evacuation system to accommodate tie-in activities on the Elk River 3rd branch line September 22, 2025. Gas evacuation activities were completed September 24, 2025. Otis completed welding the hot tap fitting for tie-in activities September 25, 2025.

The HDD noise report is attached. All sound levels are recorded as dBA.

Construction Modifications: There were no construction modifications during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

Wetlands ERT-W34 and ERT-W35, and stream ERT-S01 were crossed by HDD P4-5 during this reporting period. Wetlands ERT-W33, ERT-W01 and ERT-W18 were crossed by HDD P4-1 during this reporting period.

Rain Events

Two rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 1.15 inches

³ The same contractor and crews are constructing the Elk River 3rd branch line and Farmington-to-Hugo C-Line extension projects. The numbers reflect the training provided to the one contractor and any subcontractors; however, are double counted between the two projects.

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of occurred September 19, 2025. One rain event of 1.75 inches occurred September 22, 2025. To date the project has received 21.93 inches of precipitation.

Elk River 3rd Branch Line Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/10/2025	5/2/2025	Primary survey is complete
Clearing	4/28/2025	5/10/2025	Clearing is complete
Grading	5/6/2025	6/7/2025	Grading is complete
Stringing	5/15/2025	6/21/2025	Stringing is complete
Welding	5/16/2025	75%	Welding is ongoing
Ditching	7/9/2025	42%	Otis continued ditching
HDD ERT P4-1	9/6/2025	9/24/2025	North Country completed the HDD
HDD ERT P4-2	7/15/2025	8/15/2025	Mears completed the HDD
HDD ERT P4-3	5/22/2025	6/14/2025	Mears completed the HDD
HDD ERT P4-4	9/6/2025	9/12/2025	North Country completed the HDD
HDD ERT P4-5	6/20/2025	65%	Mears continued the 42-inch-diameter swab pass
HDD ERT P4-6	6/20/2025	6/25/2025	Mears completed the HDD
HDD ERT P4-7	7/01/2025	7/3/2025	Mears completed the HDD
Lower-in	7/9/2025	42%	Otis continued lowering-in
Backfill	7/9/2025	37%	Otis continued backfill
Topsoil Restoration	7/28/2025	10%	Otis commenced restoration
Existing Elk River tie-over valve setting to be removed			
New Elk River tie-in valve setting			
Clean-up			
Seeding			
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Continue welding, sandblasting and coating
2. Remove HDD P4-5 stuck pipe
3. Continue stopple bypass at MP 1.0
4. Continue ditching, lowering-in and backfill
5. Continue restoration

Elk River 3rd Branch Line Related Spill

No spills occurred during this reporting period.

Farmington to Hugo C-Line Extension

Northern will construct and operate a non-contiguous 1.90-mile extension of its 30-inch-diameter Farmington to Hugo C-line in Washington County, Minnesota. The new extension will be tied in below ground within Northern's existing Hugo compressor station in Section 6, T31N, R20W, Washington County, Minnesota. The downstream tie-in to Northern's 24-inch-diameter MNM86501 B-line will be completed at a new below-ground⁴ valve setting in Section 7, T31N, R20W, Washington County, Minnesota.

⁴ As described in Northern's implementation plan and response to the conditions of the order (condition 5) filed with FERC March 6, 2025, the new downstream valve setting for the Farmington to Hugo C-line extension will be below ground in accordance with the landowner's request rather than aboveground as originally proposed.

Environmental Training

One contractor will construct the Farmington to Hugo C-line extension and associated aboveground facilities. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: Otis Minnesota Services, LLC (Otis)

Overall Construction Start Date: May 3, 2025

Environmental Training Conducted⁴: This reporting period: 0 Total to date: 90

Construction Status:

Otis continued backfill and tie-ins within the Hugo compressor station. Otis continued stringing and welding line pipe. Otis continued sandblasting line and bore pipe. North Country completed HDD P4-1 and P4-2.

The HDD noise report is attached. All sound levels are recorded as dBA.

Construction Modifications: There were no construction modifications during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

Wetlands FRM-W01, FRM-W21 and FRM-W05 were crossed by HDD P4-1 during this reporting period.

Wetlands FRM-W09 and FRM-W10 were crossed by HDD P4-2 during this reporting period.

Rain Events

Two rain events greater than 0.50 inch occurred during this reporting period. One rain event of 1.30 inches occurred September 19, 2025. One rain event of 1.95 inches occurred September 22, 2025. To date the project has received 23.12 inches of precipitation.

Farmington to Hugo C-Line Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/26/2025	5/5/2025	Survey is complete
Clearing	5/3/2025	5/9/2025	Clearing is complete
Grading	6/9/2025	8/15/2025	Grading is complete
Stringing	6/18/2025	96%	Stringing is ongoing
Welding	6/20/2025	94%	Welding is ongoing
Ditching	7/24/2025	19%	Otis continued ditching
HDD FAR P4-1	8/19/2025	9/17/2025	North Country completed drilling
HDD FAR P4-2	8/26/2025	9/26/2025	North Country completed drilling
Lower-in	7/24/2025	19%	Otis continued lowering-in
Backfill	7/28/2025	19%	Otis continued backfill
Topsoil Restoration	7/1/2025	10%	Topsoil restoration will resume after HDDs are complete
Hugo compressor station launcher and valves	5/22/2025	85%	Otis continued backfill and tie-ins
Farmington tie-over valve setting	6/17/2025	75%	Otis completed testing
Clean-up			
Seeding			
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Continue backfill and testing in the Hugo compressor station

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2. Continue stringing
3. Continue welding
4. Continue sandblasting and coating
5. Continue ditching
6. Continue lowering-in
7. Continue backfill
8. Continue restoration

Farmington to Hugo C-line Related Spill Totals

No spills occurred during this reporting period.

Tomah Branch Line Loop

Northern will construct and operate an approximately 1.28-mile extension of its 8-inch-diameter WIB11902 Tomah branch line loop in Monroe County, Wisconsin. The new extension will be tied in below ground to the current terminus of the Tomah branch line loop in Section 1, T17N, R4W, Monroe County, Wisconsin, and the existing tie-in valve setting and receiver facility at this location will be removed. The down-stream tie-in to Northern's 6-inch-diameter WIB11901 branch line is located in Section 6, T17N, R3W, Monroe County, Wisconsin.

Environmental Training

One contractor will construct the Tomah branch line loop. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: K & K, Inc. (K&K)

Overall Construction Start Date: Commenced May 12, 2025

Environmental Training Conducted: This reporting period: 0 Total to date: 49

Construction Status: K&K continued restoring topsoil. K&K continued harley raking, drill seeding and mulching the ROW. American Hydroseeding, LLC (American Hydroseeding) completed hydroseeding on the west end of the Tomah branch line loop. K&K continued removal of road approaches. K&K continued cleaning up construction debris from the staging area. K&K continued hauling off mats, skids and equipment from staging area. K&K completed decompacting agriculture field. K&K continued restoring topsoil in staging area at the east end of project.

Construction Modifications: There were no construction modifications during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

No stream crossings or other environmentally sensitive areas were impacted during this reporting period.

Rain Events

Three rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 1.00 inch occurred August 15, 2025. One rain event of 3.10 inches occurred August 20, 2025. One rain event of 1.50 inches occurred August 22, 2025. To date, the project has received 29.50 inches of precipitation.

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Tomah Branch Line Loop Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/22/2025	98%	Survey is ongoing
Clearing	5/14/2025	5/23/2025	Clearing is complete
Grading	5/16/2025	8/2/2025	Grading is complete
Stringing	6/2/2025	7/9/2025	Stringing is complete
Welding	6/3/2025	8/23/2025	Welding is complete
Ditching	7/9/2025	8/4/2025	Ditching is complete
HDD TBL P4-1	7/15/2025	7/16/2025	P4-1 is complete
HDD TBL P4-2	7/7/2025	7/12/2025	P4-2 is complete
Lower-in	7/10/2025	8/4/2025	Lowering-in is complete
Backfill	7/14/2025	8/30/2025	Backfill is complete
Topsoil Restoration	8/9/2025	97%	Restoration ongoing
Remove Tomah branch line loop receiver facility	6/11/2025	8/23/2025	K&K completed removal at receiver site
Remove Tomah Tie-over valve setting	6/12/2025	8/23/2025	K&K completed removal of valve setting
Clean-up	8/9/2025	95%	Clean-up ongoing
Seeding	8/14/2025	95%	Seeding ongoing
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Complete restoration
2. Complete clean-up
3. Complete seeding
4. Place in service (FERC approved September 24, 2025)

La Crescent Compressor Station

Northern completed minor aboveground facility modifications within its existing La Crescent compressor station facility. The facility modifications consisted of the replacement of the current blind flanges with compressor cylinder end caps.

Archrock Services LP (Archrock) made the modifications at the La Crescent compressor station.

Construction Status: Construction was completed August 27, 2025. FERC granted Northern's request to place the facility in service September 15, 2025. The modifications were placed in service September 26, 2025.

La Crescent Compressor Station Modifications Construction Progress			
Activity	Start Date	Completed	Notes
Compressor modifications	7/22/2025	8/27/2025	Compressor modifications are complete
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

PROJECT-WIDE AGENCY COMMUNICATIONS AND SITE VISITS

On September 15, 2025, FERC approved Northern's request to use a temporary evacuation system for a continuous 48-hour duration within the Hugo compressor station located in Washington County, Minnesota, to accommodate tie-in activities for the Elk River 3rd branch.

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On September 17, 2025, Northern requested approval to place the Tomah branch line loop extension into service. FERC granted the request September 24, 2025.

On September 18, 2025, Northern filed a variance request seeking approval to conduct construction activities on Sundays for the Lake Mills to Albert Lea E-line extension, the Elk River 3rd branch line extension and the Farmington to Hugo C-line extension. FERC granted approval September 24, 2025.

On September 23, 2025, Clay Roesler, Tetra-Tech third-party inspector, completed a FERC environmental compliance inspection of the pipeline projects.

PROJECT-WIDE LANDOWNER CONCERNS

No project-wide landowner concerns were raised during this reporting period.

PROJECT-WIDE NON-COMPLIANCE CONCERNS

No project-wide non-compliance concerns were raised during this reporting period.

PHOTOS

Lake Mills to Albert Lea E-line



Facing south at MP 31.4, K&K backfilling trench south of County Road 9/135th Street



Facing north at MP 32.2, K&K lowering-in mainline pipe north of 140th Street

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Facing east at MP 31.72, K&K completing mainline tie-in south of 140th Street



Facing northwest at MP 32.8, K&K removing and stockpiling topsoil for extra workspace north of 140th Street

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Facing south at MP 32.75, K&K removing construction debris from ROW north of 140th Street



Facing northwest at MP 34.0, Hodgman repairing drain tile south of 165th Street

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Facing north at MP 31.2, K&K completing installation of test header for E-line extension north of County Road 9/135th Street



Facing north at MP 31.6, K&K backfilling trench south of 140th Street

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Facing north at MP 31.55, K&K sandblasting and coating mainline trench tie-in south of 140th Street



Facing east at MP 34.2, K&K installing valve cap, completing fabrication of D-line tie-in piping

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Facing north at MP 31.4, subcontractor for K&K, decompacting subsoil south of County Road 9/135th Street



Facing southwest at MP 31.5, K&K restoring topsoil south of County Road 9/135th Street

Elk River 3rd Branch Line



Facing east at HDD P4-5, Mears commenced the pipe extraction



Facing west at HDD P4-1, North Country completed the pull

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Facing south near MP 2.13, backfill is ongoing



Facing west near MP 1.83, lowering-in ongoing

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Facing south near MP 2.13, welding ongoing



Facing east Otis performing track out cleanup

Farmington-Hugo C-Line Extension



Facing south, view of Otis stringing line pipe near MP 1.18



Facing north, view of HDD P4-2 completed near MP 0.65

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Facing west, view of Otis bolting the valve in place in the Hugo compressor station near MP 0.1



Facing east, view of Otis constructing the sound wall in the Hugo compressor station near MP 0.1

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Facing west, view of HDD P4-1 completed near MP 0.55

Tomah Branch Line Loop



Facing north near MP 3.5, K&K cleaning up staging area

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Facing west near MP 23.5, K&K removing the temporary driveway



Facing west near MP 2.5, hydroseeding completed



Facing southwest near MP 2.53, K&K mulching row



Facing east near MP 3.5, K&K restoring topsoil



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/15/2025	Footage:	95	Depth:		Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	EI	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01															
NSA02															
NSA07															
NSA08															

Notes: P4-1 commenced the second ream at 1600 and stopped reaming at 1700. The contractor reamed 94.5-feet today, for a total of 94.5-feet. NSA readings may be higher at times due to traffic, landowner activities and wildlife.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/17/2025	Footage:	567	Depth:		Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01						51.3	52.0	53.1	54.4					52.70	
NSA02						52.4	50.9	55.0	50.6					52.23	
NSA07						46.1	45.5	43.8	46.2					45.40	
NSA08						47.2	44.4	46.2	45.3					45.78	

Notes: P4-1 continued the second ream at 0830 and stopped reaming at 1630. The contractor reamed 472 -feet today, for a total of: 567 -feet. NSA readings may be higher at times due to traffic, landowner activities and wildlife.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/18/2025	Footage:	1,166	Depth:		Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	EI	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01							52.5	54.1						53.30	
NSA02							53.4	51.7						52.55	
NSA07							45.2	44.4						44.80	
NSA08							46.3	43.8						45.05	

Notes: P4-1 continued the second ream at 1010 and stopped reaming at 1450. The contractor reamed 598.5-feet today, for a total of 1165.5-feet . NSA readings may be higher at times due to traffic, landowner activities and wildlife.



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Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/19/2025	Footage:	1,433	Depth:		Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01						56.1								56.10	
NSA02						57.2								57.20	
NSA07						45.3								45.30	
NSA08						46.4								46.40	

Notes: P4-1 continued the second ream at 0750 and stopped reaming at 1048. The contractor reamed 267.75-feet, for a total of 1,433.25-feet . NSA readings may be higher at times due to traffic, landowner activities, and wildlife.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/20/2025	Footage:		Depth:		Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01							59.0							59.00	
NSA02							58.3							58.30	
NSA07							44.5							44.50	
NSA08							45.2							45.20	

Notes: P4-1 tripped out the 42-inch reamer from 0950 to 1300. No other HDD activities took place. TThe contractor reamed 0-feet, for a total of 0-feet . NSA readings may be higher at times due to traffic, landowner activities and wildlife.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/22/2025	Footage:	1,553	Depth:		Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01						57.1	56.3	55.5						56.30	
NSA02						58.2	57.4	54.9						56.83	
NSA07						45.4	47.2	45.3						45.97	
NSA08						46.3	43.9	44.8						45.00	

Notes: P4-1 commenced the swab at 0940 and completed the swab at 1430. The contractor reamed 1,553-feet, for a total of 1,553 -feet. NSA readings may be higher at times due to traffic, landowner activities and wildlife.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/23/2025	Footage:	567	Depth:		Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01						56.9								56.90	
NSA02						58.0								58.00	
NSA07						46.5								46.50	
NSA08						47.6								47.60	

Notes: P4-1 commenced the pullback at 0848 and stopped to prepare for the midweld at 1015. Midweld was completed at 1715. Pullback continued from 1720 to 1722. The contractor pulled 567-feet today.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-1	Date:	9/24/2025	Footage:	1,575	Depth:		Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Edward Griffin		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA01															
NSA02															
NSA07															
NSA08															

Notes: P4-1 continued the pullback at 0740 and stopped to prepare for the midweld at 0831. Pullback continued from 1542 and was completed at 1646. The contractor pulled 1,008-feet, for a total of 1,575-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/15/2025	Footage:	2838	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Zach Miller		Contractor		Continuously		
	John Odom		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28				N/A		60.4	58.1	54.2	60.1	N/A	N/A	N/A	N/A	58.20	
NSA-29				N/A		35.2	35.7	36.1	38.0	N/A	N/A	N/A	N/A	36.25	
NSA-32				N/A		32.9	30.0	31.5	33.6	N/A	N/A	N/A	N/A	32.00	
NSA-33				N/A		40.2	37.9	41.2	39.2	N/A	N/A	N/A	N/A	39.63	

Notes: Drill P4-5 commenced at 0830 stopped drill at 1515. Mears HDD completed 4th swab.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/16/2025	Footage:	0	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Zach Miller		Contractor		Continuously		
	John Odom		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
NSA-29					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
NSA-32					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
NSA-33					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Notes: Drill P4-5 did not operate.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/17/2025	Footage:	2104	Depth:	120	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Zach Miller		Contractor		Continuously		
	John Odom		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28				N/A		59.2	60.0	N/A	58.8	60.1	57.3	N/A	N/A	59.53	57.30
NSA-29				N/A		38.1	35.4	N/A	37.2	37.0	36.7	N/A	N/A	36.93	36.70
NSA-32				N/A		33.3	30.3	N/A	29.8	31.8	32.5	N/A	N/A	31.30	32.50
NSA-33				N/A		37.8	39.4	N/A	38.5	40.3	37.6	N/A	N/A	39.00	37.60

Notes: Drill P4-5 commenced 5th swab with 36-inch cone at 0830 to 2015. Drill did not operate from 1210 to 1315 due to x-ray conducting pull head weld inspection.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/18/2025	Footage:	2838	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Zach Miller		Contractor		Continuously		
	John Odom		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28				N/A		51.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51.20	
NSA-29				N/A		35.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.70	
NSA-32				N/A		30.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.60	
NSA-33				N/A		39.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.50	

Notes: Drill P4-5 complete 5th swab with 36-inch cone. HDD operated from 0720 to 0945.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/19/2025	Footage:	1371	Depth:	120	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Zach Miller		Contractor		Continuously		
	John Odom		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					55.4	56.2	N/A	N/A	N/A	N/A	60.1			55.80	60.10
NSA-29					37.4	35.8	N/A	N/A	N/A	N/A	48.5			36.60	48.50
NSA-32					31.2	30.8	N/A	N/A	N/A	N/A	40.6			31.00	40.60
NSA-33					39.7	41.9	N/A	N/A	N/A	N/A	46.7			40.80	46.70

Notes: Drill P4-5 commence pullback of bore pipe with 36-inch. HDD operated from 0700 to 1045, drill ran from 1445 to 1455, drill operated from 1800 to 1950. Higher number to weather.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/20/2025	Footage:	1754	Depth:	120	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Zach Miller		Contractor		Continuously		
	John Odom		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	N/A	60.3	N/A	N/A	61.3	60.1			60.80	60.10
NSA-29					N/A	N/A	37.8	N/A	N/A	36.9	48.5			37.35	48.50
NSA-32					N/A	N/A	33.4	N/A	N/A	30.0	40.6			31.70	40.60
NSA-33					N/A	N/A	41.3	N/A	N/A	39.2	46.7			40.25	46.70

Notes: Drill P4-5 continued pullback of bore pipe with 36-inch. HDD operated from 1100 to 1150, drill operated from 1350 to 1400 and from 1600 to 1730.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/22/2025	Footage:	61-feet	Depth:	0	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Austin Cleveland	Role	EI	Frequency	Hourly	IR Detected	No
	John Odom		Contractor		Continuously		
	Zach Miller		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28		N/A	N/A	N/A	N/A	N/A	N/A	N/A	61.4	59.4	N/A	N/A	N/A	60.40	
NSA-29		N/A	N/A	N/A	N/A	N/A	N/A	N/A	36.9	38.1	N/A	N/A	N/A	37.50	
NSA-32		N/A	N/A	N/A	N/A	N/A	N/A	N/A	33.8	35.2	N/A	N/A	N/A	34.50	
NSA-33		N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.1	40.5	N/A	N/A	N/A	41.80	

Notes: Drill P4-5 commenced operations at 0800, the contractors completed 61-feet today, for a total of 1692-feet total.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension-Prelim

WO: 1146979

Drill:	P4-5	Date:	9/23/2025	Footage:	6 -Feet	Depth:	N/A	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	EI	Frequency	Hourly	IR Detected	No
	John Odom		Contractor		Continuously		
	Zach Miller		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28		N/A	N/A	N/A	N/A	56.7	53.1	N/A	N/A		N/A	N/A	N/A	54.90	
NSA-29		N/A	N/A	N/A	N/A	38.2	40.3	N/A	N/A		N/A	N/A	N/A	39.25	
NSA-32		N/A	N/A	N/A	N/A	41.3	42.6	N/A	N/A		N/A	N/A	N/A	41.95	
NSA-33		N/A	N/A	N/A	N/A	50.6	48.1	N/A	N/A		N/A	N/A	N/A	49.35	

The daily footage pulled back into the exit pit on HDD drill P4-5 was 6-feet today. Mears HDD removed the pneumatic hammer and began attempting to dewater the bore pipe.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/24/2025	Footage:	0-Feet	Depth:	N/A	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Andre Burgess		Contractor		Continuously		
	Zach Miller		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
NSA-29		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
NSA-32		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
NSA-33		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

The daily footage pulled back into the exit pit on HDD drill P4-5 was 0-feet today. Mears HDD dewatered the HDD drill P4-5 bore pipe today and setup to move the pneumatic hammer to the exit pit in the morning.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	9/25/2025	Footage:	4 Feet 4 inches	Depth:	N/A	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Andre Burgess		Contractor		Continuously		
	Zach Miller		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28		N/A	N/A	N/A	N/A	N/A	51.8	47.6	N/A	N/A	N/A	N/A	N/A	49.70	
NSA-29		N/A	N/A	N/A	N/A	N/A	49.3	48.8	N/A	N/A	N/A	N/A	N/A	49.05	
NSA-32		N/A	N/A	N/A	N/A	N/A	58.7	62.5	N/A	N/A	N/A	N/A	N/A	60.60	
NSA-33		N/A	N/A	N/A	N/A	N/A	52.4	51.1	N/A	N/A	N/A	N/A	N/A	51.75	

The daily footage pulled back into the exit pit on HDD drill P4-5 was 4 feet 4 inches today. Mears HDD attempted to hammer out the bore pipe on HDD drill P4-5. The total footage was 4 feet 4 inches in 2 hours 42 minutes.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension

WO: 1146968

Drill:	P4-1	Date:	9/13/2025	Footage:	756-feet	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Austin Cleveland	Role	El	Frequency	Hourly	IR Detected	No
	Bryce Warner		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-2		N/A	N/A	N/A	N/A	43.2	39.1	N/A	N/A	N/A	N/A	N/A	N/A	41.15	
NSA-3		N/A	N/A	N/A	N/A	41.6	44.0	N/A	N/A	N/A	N/A	N/A	N/A	42.80	
NSA-5		N/A	N/A	N/A	N/A	42.3	45.5	N/A	N/A	N/A	N/A	N/A	N/A	43.90	
NSA-6		N/A	N/A	N/A	N/A	45.7	43.8	N/A	N/A	N/A	N/A	N/A	N/A	44.75	

Notes: Drill P4-1 commenced operations at 0730, the contractors completed 756-feet today, for a total of 1039.5-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension

WO: 1146968

Drill:	P4-1	Date:	9/15/2025	Footage:	1921.5-feet	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Austin Cleveland	Role	EI	Frequency	Hourly	IR Detected	No
	Bryce Warner		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-2		N/A	N/A	N/A	N/A	N/A	42.6	39.1	43.6	N/A	N/A	N/A	N/A	41.77	
NSA-3		N/A	N/A	N/A	N/A	N/A	46.1	43.7	40.0	N/A	N/A	N/A	N/A	43.27	
NSA-5		N/A	N/A	N/A	N/A	N/A	48.2	42.9	43.8	N/A	N/A	N/A	N/A	44.97	
NSA-6		N/A	N/A	N/A	N/A	N/A	41.3	38.4	44.0	N/A	N/A	N/A	N/A	41.23	

Notes: Drill P4-1 commenced operations at 0800, the contractors completed 1921.5-feet today, for a total of 1921.5-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension

WO: 1146968

Drill:	P4-1	Date:	9/16/2025	Footage:	1921.5-feet	Depth:	0	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Austin Cleveland	Role	El	Frequency	Hourly	IR Detected	No
	Bryce Warner		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-2		N/A	N/A	N/A	N/A	44.1	38.4	42.1	38.5	42.6	N/A	N/A	N/A	41.14	
NSA-3		N/A	N/A	N/A	N/A	43.6	42.5	43.9	41.6	46.2	N/A	N/A	N/A	43.56	
NSA-5		N/A	N/A	N/A	N/A	43.7	46.3	45.5	45.6	42.7	N/A	N/A	N/A	44.76	
NSA-6		N/A	N/A	N/A	N/A	39.7	45.9	42.6	43.2	43.8	N/A	N/A	N/A	43.04	

Notes: Drill P4-1 commenced operations at 0800, the contractors completed 1921.5-feet today, for a total of 1921.5-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/15/2025	Footage:	315 -Feet	Depth:	N/A	Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	49.4	48.7	48.9	47.2	48.6	N/A	N/A	N/A	48.56	
NSA-08		N/A	N/A	N/A	N/A	49.3	48.1	49.2	48.3	48.7	N/A	N/A	N/A	48.72	
NSA-09		N/A	N/A	N/A	N/A	47.9	47.6	48.6	49.2	48.1	N/A	N/A	N/A	48.28	
NSA-10		N/A	N/A	N/A	N/A	44.3	46.8	47.4	45.2	46.7	N/A	N/A	N/A	46.08	

High traffic on 170th Street during sound monitoring.The daily footage reamed was 315-feet, for a total of 1732.5-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/16/2025	Footage:	315 -Feet	Depth:	N/A	Phase:	Second ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	47.9	48.2	47.9	48.6	48.3	N/A	N/A	N/A	48.18	
NSA-08		N/A	N/A	N/A	N/A	47.4	47.6	48.3	47.7	48.6	N/A	N/A	N/A	47.92	
NSA-09		N/A	N/A	N/A	N/A	46.8	47.2	47.8	47.4	47.9	N/A	N/A	N/A	47.42	
NSA-10		N/A	N/A	N/A	N/A	43.7	44.1	44.6	45.2	45.1	N/A	N/A	N/A	44.54	

High traffic on 170th Street during sound monitoring. The daily footage reamed was 283.5-feet, for a total of 2,016 feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/17/2025	Footage:	315 -Feet	Depth:	N/A	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	47.6	48.3	48.6	47.2	N/A	N/A	N/A	N/A	47.93	
NSA-08		N/A	N/A	N/A	N/A	48.4	48.9	47.6	46.4	N/A	N/A	N/A	N/A	47.83	
NSA-09		N/A	N/A	N/A	N/A	48.7	47.2	48.8	47.4	N/A	N/A	N/A	N/A	48.03	
NSA-10		N/A	N/A	N/A	N/A	44.6	43.8	44.2	45.1	N/A	N/A	N/A	N/A	44.43	

High traffic on 170th Street during sound monitoring. The daily footage swabbed (Mud Pass) was 1,827-feet, for a total of 2,016-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/18/2025	Footage:	1071 -Feet	Depth:	N/A	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	47.1	48.6	47.9	N/A	N/A	N/A	N/A	N/A	47.87	
NSA-08		N/A	N/A	N/A	N/A	48.2	47.3	48.6	N/A	N/A	N/A	N/A	N/A	48.03	
NSA-09		N/A	N/A	N/A	N/A	47.9	48.4	48.9	N/A	N/A	N/A	N/A	N/A	48.40	
NSA-10		N/A	N/A	N/A	N/A	43.7	44.8	44.2	N/A	N/A	N/A	N/A	N/A	44.23	

High traffic on 170th Street during sound monitoring. The daily footage pulled is 1071-feet. Pipe broke off pull head and tripped 630-feet back to entry pit to see what happened to pull.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/19/2025	Footage:	31.5 -Feet	Depth:	N/A	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	47.6	47.1	47.8	47.3	48.2	N/A	N/A	N/A	47.60	
NSA-08		N/A	N/A	N/A	N/A	48.2	47.9	48.6	48.2	47.3	N/A	N/A	N/A	48.04	
NSA-09		N/A	N/A	N/A	N/A	47.8	47.4	47.2	47.9	47.2	N/A	N/A	N/A	47.50	
NSA-10		N/A	N/A	N/A	N/A	43.6	44.2	44.6	43.2	44.6	N/A	N/A	N/A	44.04	

High traffic on 170th Street during sound monitoring. The daily footage pulled is 31.5-feet. Set up rig on exit side and pulled 31.5-feet of bore pipe back to retrieve the pull head.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/20/2025	Footage:	31.5 -Feet	Depth:	N/A	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	49.1	48.3	48.5	48.2	47.9	N/A	N/A	N/A	48.40	
NSA-08		N/A	N/A	N/A	N/A	47.2	47.7	47.9	47.6	48.5	N/A	N/A	N/A	47.78	
NSA-09		N/A	N/A	N/A	N/A	47.8	48.1	47.6	48.2	47.5	N/A	N/A	N/A	47.84	
NSA-10		N/A	N/A	N/A	N/A	43.6	44.6	44.1	43.6	44.9	N/A	N/A	N/A	44.16	

High traffic on 170th Street during sound monitoring. The daily footage pulled into the exit pit was 851-feet, for a total of 882-feet of bore pipe. North Country is set up to ream again on Monday.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 Farmington to Hugo C-line Extension

WO: 1146968

Drill:	P4-2	Date:	9/22/2025	Footage:	1575 -Feet	Depth:	N/A	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Michael Hussong	Role	El	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	48.2	48.4	48.7	47.6	47.5	N/A	N/A	N/A	48.08	
NSA-08		N/A	N/A	N/A	N/A	47.4	47.9	48.6	47.4	48.2	N/A	N/A	N/A	47.90	
NSA-09		N/A	N/A	N/A	N/A	47.6	48.6	48.1	47.7	47.1	N/A	N/A	N/A	47.82	
NSA-10		N/A	N/A	N/A	N/A	43.1	44.3	45.6	44.5	43.2	N/A	N/A	N/A	44.14	

High traffic on 170th Street during sound monitoring. The daily footage on the mud pass was 1,575-feet. North Country HDD ran a 42-inch rock reamer piggybacked with a mill tooth reamer.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension

WO: 1146968

Drill:	P4-2	Date:	9/23/2025	Footage:	425-feet	Depth:	0	Phase:	Pullback
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Austin Cleveland	Role	EI	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	48.6	47.9	48.3	N/A	N/A	N/A	N/A	N/A	48.27	
NSA-08		N/A	N/A	N/A	N/A	46.6	45.3	46.2	N/A	N/A	N/A	N/A	N/A	46.03	
NSA-09		N/A	N/A	N/A	N/A	48.3	47.5	47.6	N/A	N/A	N/A	N/A	N/A	47.80	
NSA-10		N/A	N/A	N/A	N/A	44.2	44.0	44.9	N/A	N/A	N/A	N/A	N/A	44.37	

Notes: Drill P4-2 commenced operations at 0900, the contractors completed 425-feet today.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension

WO: 1146968

Drill:	P4-2	Date:	9/24/2025	Footage:	724.5-feet	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Austin Cleveland	Role	EI	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	47.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	47.60	
NSA-08		N/A	N/A	N/A	N/A	45.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	45.30	
NSA-09		N/A	N/A	N/A	N/A	49.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	49.20	
NSA-10		N/A	N/A	N/A	N/A	43.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.90	

Notes: Drill P4-2 commenced operations at 0800, the contractors completed 724.5-feet today, for a total of 724.5-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Farmington to Hugo C-Line Extension

WO: 1146968

Drill:	P4-2	Date:	9/25/2025	Footage:	1260-feet	Depth:	0	Phase:	Swabbing
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Austin Cleveland	Role	EI	Frequency	Hourly	IR Detected	No
	Randy Tilley		Contractor		Continuously		
	Dustin Mull		Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-07		N/A	N/A	N/A	N/A	48.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48.60	
NSA-08		N/A	N/A	N/A	N/A	43.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	43.20	
NSA-09		N/A	N/A	N/A	N/A	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50.30	
NSA-10		N/A	N/A	N/A	N/A	44.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.60	

Notes: Drill P4-2 commenced operations at 0814. The contractors completed 1260-feet today, for a total of 1984.5-feet.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project:		NL25 Farmington to Hugo C-Line Extension												WO:		1146968	
Drill:	P4-2	Date:	9/26/2025	Footage:	2047.5-feet	Depth:	0	Phase:	Pullback								
Drilling Fluids:	MAXGEL													Approved by DES	Yes		
	Water													Approved by DES	Yes		
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber													Approved by DES	Yes		
Person Walking Drill Path		Austin Cleveland			Role	EI		Frequency	Hourly		IR Detected	No					
		Randy Tilley				Contractor											
		Dustin Mull				Contractor											
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average		
NSA-07	N/A	N/A	N/A	N/A		47.3	48.1	47.5	48.2	N/A	N/A	N/A	N/A	47.78			
NSA-08	N/A	N/A	N/A	N/A		42.1	44.4	43.6	44.2	N/A	N/A	N/A	N/A	43.58			
NSA-09	N/A	N/A	N/A	N/A		48.6	48.9	47.4	47.6	N/A	N/A	N/A	N/A	48.13			
NSA-10	N/A	N/A	N/A	N/A		43.4	44.7	44.1	44.0	N/A	N/A	N/A	N/A	44.05			
Notes: Drill P4-2 commenced operations at 0823. The contractors completed pull at 1555 with 2047.5-feet today and 2047.5-feet total.																	