

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c))
Emergency Order: Midcontinent) Order No. 202-26-19
Independent System Operator and)
Northern Indiana Public Service)
Company LLC)

Federal Power Act Section 202(c))
Emergency Order: Midcontinent) Order No. 202-26-20
Independent System Operator and)
CenterPoint Energy Indiana South)

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 181
MISO January Filing

**UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

Southern Indiana Gas and Electric Company)	
)	
)	Docket No. EL26-38-000
v.)	
)	
Midcontinent Independent System Operator, Inc.)	
)	

**ANSWER OF THE
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.**

The Midcontinent Independent System Operator, Inc. (“MISO” or “Respondent”) submits¹ this Answer to the Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South (“SIGE” or “Company”). SIGE filed the Complaint in response to an order (“DOE Order”) issued by the U.S. Secretary of Energy pursuant to Federal Power Act (“FPA”) section 202(c) and section 301(b) of the Department of Energy Authorization Act.² The DOE Order determined “that an emergency exists in portions of the Midwest region of the United States due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes.”³ To address that emergency, the DOE Order directs MISO and SIGE to take all measures necessary to ensure the that F.B. Culley Generating Station (“Culley”) Unit 2, located in Warrick County, Indiana, is available to operate.⁴ SIGE’s Complaint requests that MISO’s Open Access Transmission, Energy

¹ See Rules 206 and 213 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission (“FERC” or “Commission”), 18 C.F.R. § 385.206(f) (2025); 18 C.F.R. § 385.213 (2025).

² U.S. Department of Energy, Order No. 202-25-13, at 1 (December 23, 2025) (“DOE Order”).

³ DOE Order at 1.

⁴ DOE Order at 1,5.

and Operating Reserve Markets Tariff (“Tariff”) be revised to permit recovery of costs incurred incident to the DOE Order and provides draft Tariff language for the Commission’s review.

As recognized by the DOE in its May 23, 2025, 202(c) emergency order, MISO’s Planning Resource Auction for the 2025-2026 Planning Year demonstrated sufficient capacity in the MISO Region.⁵ While MISO does not intend to contest, within the context of this docket, the characterization within the Order that an emergency exists “due to a shortage of electric energy . . . [or] a shortage of facilities,” it is important to recognize existing processes have cleared sufficient electric generating capacity across MISO for the periods of time covered by the Order. The clearing of sufficient capacity to meet anticipated demand across the MISO Region for the 2025-2026 Planning Year reflects the diligent efforts of MISO’s members, Market Participants, Relevant Electric Retail Regulatory Authorities (“RERRA”) and the Federal Energy Regulatory Commission (“FERC”) to establish policies and processes that address both immediate and future capacity requirements. MISO continues to work with these parties in the context of anticipated growing demand for electricity, planned electric generating facility retirements, and an evolving mix of new electric generating resources to refine processes that address the challenges ahead. MISO is confident that these collaborative efforts do not require further intervention and will help ensure the region continues to procure sufficient capacity to meet demand.

MISO acknowledges that the DOE Order directs SIGE “to file with the Federal Energy Regulatory Commission Tariff revisions or waivers necessary to effectuate this order.”⁶ MISO also acknowledges that the DOE Order provides that “[r]ate recovery is available pursuant to 16 U.S.C. § 824a(c).”⁷ MISO supports the addition of a cost recovery schedule to the Tariff, subject

⁵ U.S. Department of Energy, Order No. 202-25-3, at 2 (May 23, 2025) (“May DOE Order”).

⁶ DOE Order at 6.

⁷ DOE Order at 6.

to the reservations noted below and believes that a Commission finding that such a mechanism be incorporated in the Tariff would further compliance with the DOE Order by both SIGE and MISO.

I. BACKGROUND

The Secretary of Energy issued the DOE Order on December 23, 2025.⁸ The DOE Order identifies an “emergency situation” in the MISO region due to MISO’s “year-round resource adequacy concerns,”⁹ citing MISO’s 2022 filing to revise its resource adequacy construct, MISO’s 2023 Attributes Roadmap, MISO’s 2024 report titled MISO’s Response to the Reliability Imperative, the North American Electric Reliability Corporation’s (“NERC”) 2024 Long-Term Reliability Assessment (“LTRA”), MISO’s report of its 2025-2026 Planning Resource Auction (“PRA”), and the Organization of MISO States (“OMS”) and MISO’s 2025 survey results.¹⁰ DOE additionally cites to executive orders issued by President Donald J. Trump on January 20, 2025, and April 8, 2025, as further evidence of “the dire energy challenges facing the Nation due to growing resource adequacy concerns”¹¹ and to a DOE Resource Adequacy Report, issued in July 2025, that “concluded that ‘[a]bsent decisive intervention, the Nation’s power grid will be unable to meet projected demand for manufacturing, re-industrialization, and data centers driving artificial intelligence (AI) innovation.’”¹² The DOE Order notes that Culley Unit 2 was scheduled to cease operations in December 2025, and determines that the continued operation of the Unit “will best

⁸ DOE Order at 6.

⁹ DOE Order at 1.

¹⁰ DOE Order at 1-3.

¹¹ DOE Order 4.

¹² DOE Order at 4.

meet an emergency caused by a sudden increase in the demand for electric energy or a shortage of generation capacity.”¹³

The DOE Order directs MISO and SIGE to “take all measures necessary to ensure that Culley Unit 2 is available to operate.”¹⁴ MISO is “directed to take every step to employ economic dispatch of Culley Unit 2 to minimize cost to ratepayers” and “to provide the [DOE] ... with information concerning the measures it has taken and is planning to take to ensure the operational availability of Culley Unit 2 consistent with this Order.”¹⁵ MISO notes that it is working closely with SIGE to ensure that the Culley Unit 2 is available to operate in compliance with the DOE Order. The DOE Order states that, “[SIGE] is directed to file with the Federal Energy Regulatory Commission Tariff revisions or waivers to effectuate this Order.”¹⁶ The Order states, “[r]ate recovery is available pursuant to 16 U.S.C. § 824a(c).”¹⁷

II. ANSWER

A. **The Tariff Does Not Currently Include a Mechanism to Allow Cost Recovery Pursuant to the DOE Order.**

SIGE observes that there is no MISO Tariff provision that would permit SIGE’s costs of complying with the DOE Order to be allocated to Load Serving Entities (“LSEs”) in MISO’s northern and central zones, and that MISO does not have the unilateral authority to offer SIGE a section 202(c) rate agreement.¹⁸ MISO agrees. MISO acknowledges that its Tariff does not currently include a mechanism to allow SIGE’s cost recovery as contemplated by the DOE Order.¹⁹

¹³ DOE Order at 1, 4.

¹⁴ DOE Order at 5.

¹⁵ DOE Order at 5.

¹⁶ DOE Order at 6.

¹⁷ DOE Order at 6.

¹⁸ Complaint at 20.

¹⁹ In response to the May DOE Order, MISO added Schedule 55 to its Tariff to provide a cost recovery mechanism for Consumers Energy Company; Schedule 55 only provides a cost recovery mechanism for

As discussed below, MISO does not oppose the addition of a cost recovery schedule to its Tariff that would allow SIGE to recover its costs as contemplated by the DOE Order.

B. MISO Does Not Oppose the Addition of a Cost Recovery Schedule for the Recovery of These Costs, and Will File a Cost Recovery Schedule to the Extent Directed by the Commission.

MISO does not oppose the addition of a cost recovery schedule that would permit SIGE to recover the costs incurred as a result of its efforts to comply with the DOE Order. MISO will file such a schedule if directed by the Commission.

C. MISO Reserves Its Right to Modify or Otherwise Change the Cost Recovery Allocation Formula, As Necessary, to Account for Existing Tariff Requirements or Changes.

MISO reserves the right to modify, adjust, or otherwise change the cost recovery allocation formula proposed by SIGE, should it be necessary, to account for existing Tariff requirements and to include other clarifications as may be appropriate.²⁰

III. ADMISSIONS AND DENIALS; AFFIRMATIVE DEFENSES

MISO denies all allegations in the Complaint not specifically and expressly admitted herein.²¹

IV. COMMUNICATIONS

All notices and communications with respect to this proceeding should be directed to:

Jacob Krouse*
Deputy General Counsel – Regulatory
Michael Kessler
Managing Assistant General Counsel
Midcontinent Independent

James C. Holsclaw*
Taylor M. Carpenter
Calfee, Halter & Griswold, LLP
3900 Salesforce Tower
111 Monument Circle

Consumers Energy Company, therefore additional schedules are needed to provide cost recovery mechanisms for SIGE and other effected facilities.

²⁰ The issue of whether to allocate costs on a demand or energy basis is pending before the Commission in Docket No. EL25-90-000. The Commission’s decision in that docket may necessitate additional Tarriff changes to the proposed cost recovery mechanism at issue here.

²¹ 18 C.F.R. § 385.213(c)(2)(i)-(ii) (2025).

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V. CONCLUSION

WHEREFORE, MISO respectfully requests that the Commission accept this answer.

Respectfully submitted,

/s/ Michael Kessler

Michael Kessler
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*Counsel for Midcontinent Independent
System Operator, Inc.*

Dated: January 26, 2026

CERTIFICATE OF SERVICE

I hereby certify that I have on this day e-served a copy of this document upon all parties listed on the official service list compiled by the Secretary in the above-captioned proceeding, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated this 26th day of January, 2026 in Carmel, Indiana.

/s/ Julie Bunn

Julie Bunn
Midcontinent Independent
System Operator, Inc.
720 City Center Drive
Carmel, IN 46032
317-249-5400

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Exhibit 182
2026 DOE 202(c) Orders Webpage



2026 DOE 202(c) Orders

- On [March 30, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202–26–21**, pursuant to section 202(c) of the Federal Power Act, to **Tri-State Generation and Transmission Association (Tri-State), Platte River Power Authority, Salt River Project, PacifiCorp, and Public Service Company of Colorado (Xcel Energy) (“co-owners”)**. The order directs Tri-State and the co-owners, in coordination with the Western Area Power Administration (WAPA) Rocky Mountain Region and Southwest Power Pool (SPP), to take all measures necessary to ensure that Unit 1 at the Craig Station in Craig, Colorado is available to operate. This order is in effect beginning on March 31, 2026, through June 28, 2026.
- On [March 23, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-20**, pursuant to section 202(c) of the Federal Power Act, to **CenterPoint Energy and the Midcontinent Independent System Operator, Inc. (MISO)**. The order directs CenterPoint Energy and MISO to take all measures necessary to ensure that Unit 2 at the F.B. Culley Generating Station in Warrick County, Ind. is available to operate. This order is in effect beginning on March 24, 2026, through June 21,

2026.

- On [March 23, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-19**, pursuant to section 202(c) of the Federal Power Act, to **Northern Indiana Public Service Company (NIPSCO) and the Midcontinent Independent System Operator, Inc. (MISO)**. The order directs NIPSCO and MISO to take all measures necessary to ensure that Units 17 and 18 at the Schahfer Generating Station in Wheatfield, Ind. are available to operate. This order is in effect beginning on March 24, 2026, through June 21, 2026.
- On [March 16, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-18**, pursuant to section 202(c) of the Federal Power Act, to **TransAlta Centralia Generation LLC (TransAlta)**. The order directs TransAlta to ensure Unit 2 of the Centralia Generating Station in Centralia, Washington remains available for operation. This order is in effect beginning on March 17, 2026, through June 14, 2026.
- On [February 23, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-17**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order directs PJM, in coordination with Constellation Energy Corporation, to ensure Units 3 and 4 of the Eddystone Generating Station in Pennsylvania remain available for operation and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on February 24, 2026, through May 24, 2026.
- On [February 17, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-16**, pursuant to section 202(c) of the Federal Power Act, to the **Midcontinent Independent System Operator (MISO)**, in coordination with Consumers Energy. The order directs MISO to ensure that the J.H. Campbell coal-fired power plant in West Olive, Michigan remains available for operation and to employ economic dispatch to minimize costs for the American people. This order is in

effect beginning on February 17, 2026 and continues until May 18, 2026.

- On [February 10, 2026](#), the Department of Energy (DOE) issued emergency DOE orders **No. 202-25-1C** and **No. 202-25-2C**, pursuant to section 202(c) of the Federal Power Act, to the **Puerto Rico Electric Power Authority (PREPA)**. PREPA is ordered to operate specified generation units under certain circumstances, perform vegetation management, and asset management to ensure operational availability of specified transmission facilities. The orders are in effect beginning on February 10, 2026, and continue until May 11, 2026.
- On [January 31, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-15**, pursuant to section 202(c) of the Federal Power Act, to **Orlando Utilities Commission (OUC)**. The order was issued subsequent to OUC's application. This order authorizes certain backup generating units located within OUC's service areas to operate up to their maximum generation output levels notwithstanding air emissions or other permit limitations. The order is in effect January 31, 2026, until 10:00 a.m. EST on February 6, 2026.
- On [January 31, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-14**, pursuant to section 202(c) of the Federal Power Act, to the city of Lakeland, Florida, on behalf of **Lakeland Electric (Lakeland)**. The order was issued subsequent to Lakeland's application. In the event that Lakeland Electric determines that generation from the Specified Resources is necessary to meet the electricity demand that Lakeland Electric anticipates in its service area, Lakeland Electric can dispatch such unit or units and to order their operation only as needed to maintain reliability. The order is in effect January 31, 2026, until 10:00 a.m. EST on February 6, 2026.
- On [January 31, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-13**, pursuant to section 202(c) of the Federal Power Act, to **Florida Municipal Power Agency (FMPA)**. The order was

issued subsequent to FMPA's application. The order authorizes certain backup generating units located within the FMPA service areas to operate up to their maximum generation output level notwithstanding air emissions or other permit limitations. The order is in effect January 31, 2026, until 10:00 a.m. EST on February 3, 2026.

- On [January 31, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-12**, pursuant to section 202(c) of the Federal Power Act, to **Florida Municipal Power Agency (FMPA)**. This order was issued subsequent to FMPA's application. This order authorizes FMPA's generating units located within the FMPA region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning on January 31, 2026, and shall expire at 10:00 a.m. EST on February 3, 2026.
- On [January 31, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-11**, pursuant to section 202(c) of the Federal Power Act, to **Orlando Utilities Commission (OUC)**. The order was issued subsequent to OUC application. The order authorizes OUC's generating units located within the OUC region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 31, 2026, and shall expire at 10:00 a.m. EST on February 6, 2026.
- On [January 31, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-10**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Florida, LLC (Duke)**. The order was issued subsequent to Duke's application. The order authorizes Duke's generating units located within the Duke region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 31,

2026, and shall expire at 12:00 PM EST on February 3, 2026.

- On [January 30, 2026](#), the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-09**, pursuant to section 202(c) of the Federal Power Act, to **Homestead Public Services (HPS) Energy (HPS/Energy)**. The order was issued subsequent to HPS/Energy's application. The order authorizes HPS/Energy's generating units located within the HPS/Energy region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 30, 2026, and shall expire at 10:00 a.m. EST on February 3, 2026.
- On [January 30, 2026](#), the Department of Energy (DOE) extended emergency DOE **Order No. 202-26-03A**, pursuant to section 202(c) of the Federal Power Act, to **ISO New England Inc. (ISO-NE)**. The order was extended subsequent to ISO-NE's application. The order authorizes ISO-NE's generating units located within the ISO-NE region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning on January 30, 2026, and shall expire at 11:59 p.m. EST on February 14, 2026.
- On [January 30, 2026](#), the Department of Energy (DOE) extended an emergency **Order No. 202-26-07A**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Carolinas, LLC and Duke Energy Progress (collectively, Duke Energy)**. The order was extended subsequent to Duke Energy's application. The order authorizes Duke Energy to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. The order is in effect beginning on January 30, 2026, and shall expire at 12:00 p.m. EST on

February 3, 2026.

- On [January 29, 2026](#), the Department of Energy (DOE) extended emergency **Order No. 202-26-02A**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The orders were extended subsequent to PJM's application. The order allows PJM to run all electric generating units located within the PJM Region and to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations or fuel shortages during the pendency of this emergency. This order is effective upon its issuance and shall expire at 11:59 p.m. EST on February 2, 2026.
- On [January 29, 2026](#), the Department of Energy (DOE) extended an emergency **Order No. 202-26-06A**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The orders were extended subsequent to PJM's application. The order authorizes PJM to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on February 2, 2026.
- On [January 29, 2026](#), the Department of Energy (DOE) extended emergency **Order No. 202-26-05A**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy (Duke)**. The order was extended subsequent to Duke's applications. The order authorizes Duke's generating units located within the Duke region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 29, 2026, and shall expire at 12:00 p.m. EST on February 3, 2026.
- On [January 26, 2026](#), the Department of Energy issued an emergency **Order No. 202-26-08**, pursuant to section 202(c) of the Federal Power Act, to **New York ISO (NYISO)**. The order was issued subsequent to

NYISO's application. The order allows NYISO to run all electric generating units located within the NYISO Region and to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations or fuel shortages during the pendency of this emergency. This order is in effect beginning on January 26, 2026, and continues until February 2, 2026.

- On [January 26, 2026](#), the Department of Energy (DOE) issued an emergency **Order No. 202-26-07**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Carolinas, LLC and Duke Energy Progress (collectively, Duke Energy)**. The order was issued subsequent to Duke Energy's application. The order authorizes Duke Energy to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on January 30, 2026.
- On [January 26, 2026](#), the Department of Energy (DOE) issued an emergency **Order No. 202-26-06**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order was issued subsequent to PJM's application. The order authorizes PJM to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on January 31, 2026.
- On [January 26, 2026](#), the Department of Energy (DOE) issued emergency **Order No. 202-26-05**, pursuant to section 202(c) of the **Federal Power Act, to Duke Energy (Duke)**. The order was issued subsequent to Duke's applications. The order authorizes Duke's generating units located within the Duke region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning at 12:00

a.m. EST on January 27, 2026, and shall expire at 12:00 p.m. EST on January 30, 2026.

- On [January 25, 2026](#), the Department of Energy (DOE) issued emergency **Order No. 202-26-04** pursuant to section 202(c) of the Federal Power Act, to the **Electric Reliability Council of Texas (ERCOT)**. The order was issued subsequent to ERCOT's application. In the event that ERCOT determines that generation from the Specified Resources is necessary to meet the electricity demand that ERCOT anticipates in its service territory, ERCOT is directed to dispatch such unit or units and to order their operation only as needed to maintain reliability. This Order shall be effective upon its issuance, and shall expire at 11:59 PM EST on January 27, 2026.
- On [January 25, 2026](#), the Department of Energy (DOE) issued emergency **Order No. 202-26-03**, pursuant to section 202(c) of the Federal Power Act, to **ISO New England Inc. (ISO-NE)**. The order was issued subsequent to ISO-NE's application. The order authorizes ISO-NE's generating units located within the ISO-NE region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning on January 25, 2026, and shall expire at 11:59 p.m. EST on January 31, 2026.
- On [January 25, 2026](#), the Department of Energy (DOE) issued emergency **Order No. 202-26-02**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order was issued subsequent to PJM's application. The order allows PJM to run all electric generating units located within the PJM Region and to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations or fuel shortages during the pendency of this emergency. This order is in effect beginning on January 25, 2026 and

shall expire at 11:59 p.m. EST on January 31, 2026.

- On [January 24, 2026](#), the Department of Energy (DOE) issued emergency **Order No. 202-26-01**, pursuant to section 202(c) of the Federal Power Act, to the **Electric Reliability Council of Texas**. The order was issued subsequent to ERCOT's application. The order authorizes ERCOT to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on January 27, 2026.

Committed to Restoring America's Energy Dominance.

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Order No. 202-26-19

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CenterPoint Energy Indiana South)

Order No. 202-26-20

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Public Interest Organizations

Exhibit 183
MISO January Operations Report

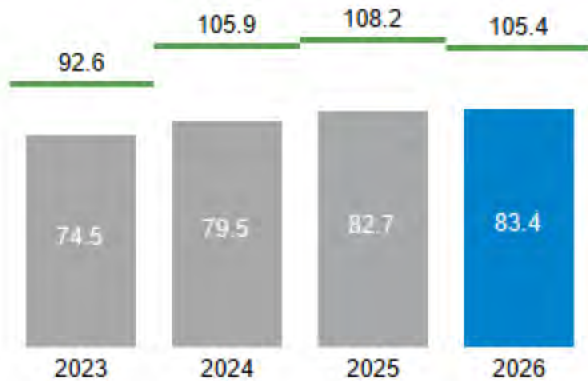


MISO Monthly Operations Report

January 2026

Reliability, markets and operational functions performed as expected in January

AVERAGE & PEAK LOAD (GW)



SYSTEM-WIDE LOAD PEAK



January 27, Hour Ending (HE) 9

SOLAR PEAK

13.7 GW

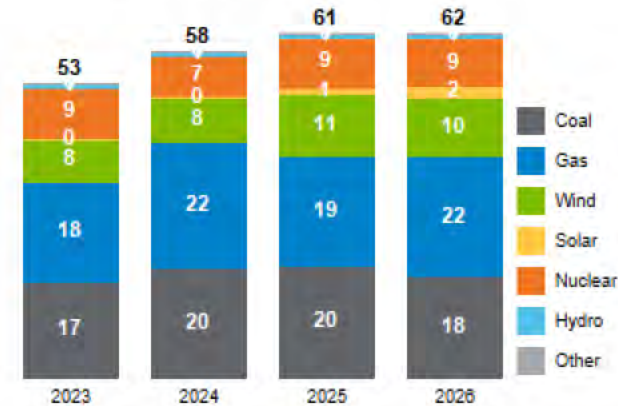
Jan 30, 2026, HE 15

WIND PEAK

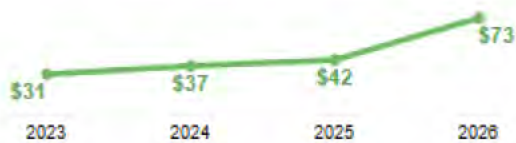
26.6 GW

Jan 13, 2026, HE 20

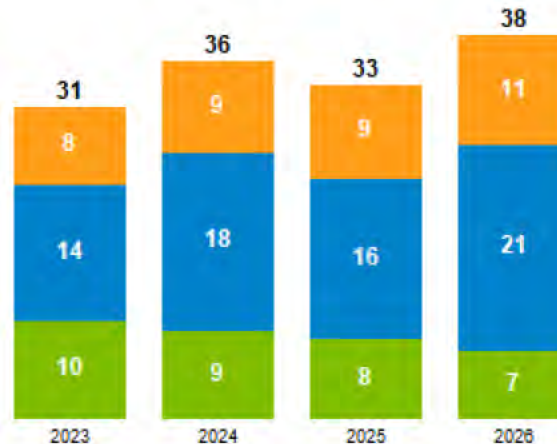
ENERGY FUEL MIX (TWh)



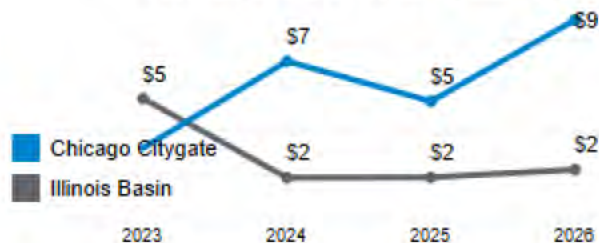
REAL-TIME LMP (\$/MWh)



AVERAGE DAILY GENERATION OUTAGE (GW)

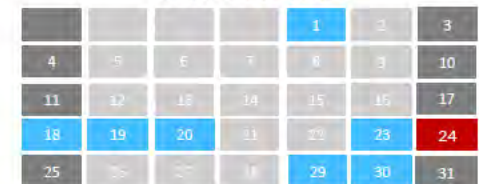


AVERAGE FUEL PRICE (\$MMBtu)



KEY OPERATING DECLARATIONS

JANUARY 2026



- 1/1 System: Local Transmission Emergency
- 1/18 South: Load Pocket Advisory
- 1/19 System: Cold Weather Alert
- 1/19 System: Geomagnetic Disturbance Warning
- 1/20 System: Severe Weather Alert
- 1/23 System: Cold Weather Alert
- 1/23 System: Conservative Operations
- 1/24 System: Max Gen Warning
- 1/24 System: Max Gen Event
- 1/29 Central: Capacity Advisory
- 1/30 MISO: Conservative Operations

- All-Time Solar Peak: 15.7 GW on Feb 7, 2026, HE 12
- All-Time Wind Peak: 26.6 GW on Jan 13, 2025, HE 20
- All-Time Load Peak: 127.1 GW on Jul 20, 2011, HE 17

- Derated
- Unplanned
- Planned

- Awareness and Weather
- Alerts and Warnings
- Reliability Actions and Events



Dashboard

Metric	Chart	Jan 2026	Dec 25	Nov 25	Oct '25	Metric	Chart	Jan 2026	Dec 25	Nov 25	Oct '25
Market Efficiency Metric	D	●	▼	●	●	Unit Commitment Efficiency	H	●	●	●	●
Percentage Price Deviation	A	▼	●	●	●	Day Ahead Wind Generation Forecast Error	K	●	●	●	●
Monthly Average Gross Virtual Profitability	B	●	●	●	●	Day-Ahead Solar Generation Forecast Error	T	●	●	●	●
FTR Funding	C	●	●	●	●	Tie Line Error	L	●	●	●	●
RSG per MWh to Energy Price	E	▼	■	●	■	Control Performance - BAAL	M	●	●	●	●
Day Ahead Mid-Term Load Forecast	F	●	●	●	●	Control Performance - CPS1 and CPS1 12-month rolling	N	●	●	●	●
Short-Term Load Forecast	G	●	●	●	●	ARS Deployment	P	●	●	●	●
Real-Time Obligation fulfilled by Day-Ahead Supply at the Peak Hour	I	●	●	●	●						
System Impact Study Performance	Q	●	●	●	●	Settlement Disputes	S	●	●	●	●

● Expected ■ Concern/Monitor ▼ Review

Two metrics fell outside of the expected range for this month

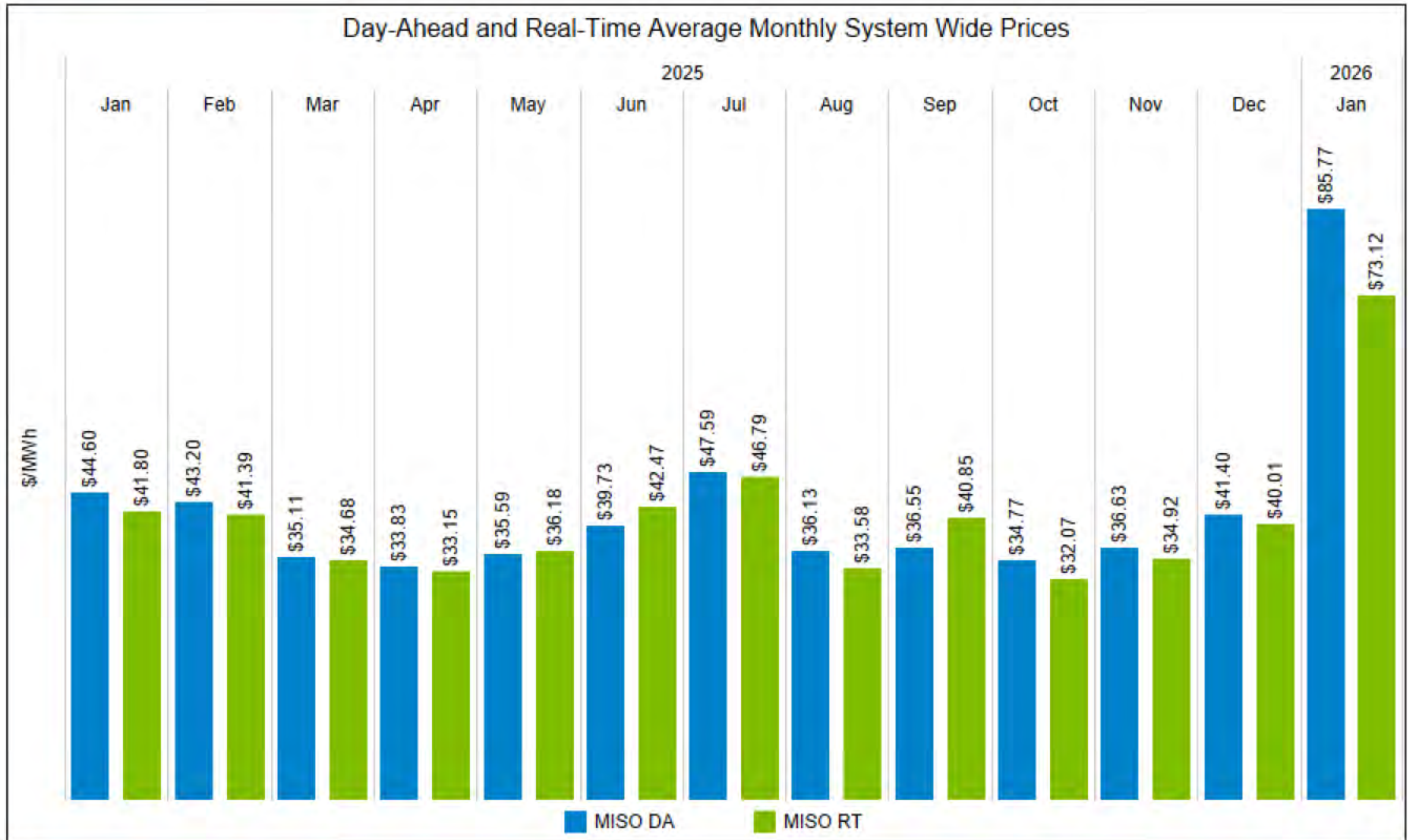
Metric	Expected Criteria	Actual	Status	Comments
RSG per MWh to Energy Price	$\leq 0.38\%$	1.87%	Review	\$78M paid to higher priced resources following LMP signals to fill the void left by underperforming units and increased load in Real-Time during Winter Storm Fern and the subsequent operating days. This seven-day period accounted for 91% of the total RSG paid for the month of January 2026.
Percentage Price Deviation	$\leq 28.6\%$	44.5%	Review	Periods of congestion and Real-Time ancillary service product scarcity pricing throughout the month resulted in some price divergence between the Day-Ahead and Real-Time markets specifically during Winter Storm Fern from Jan 23 - 27

Appendix

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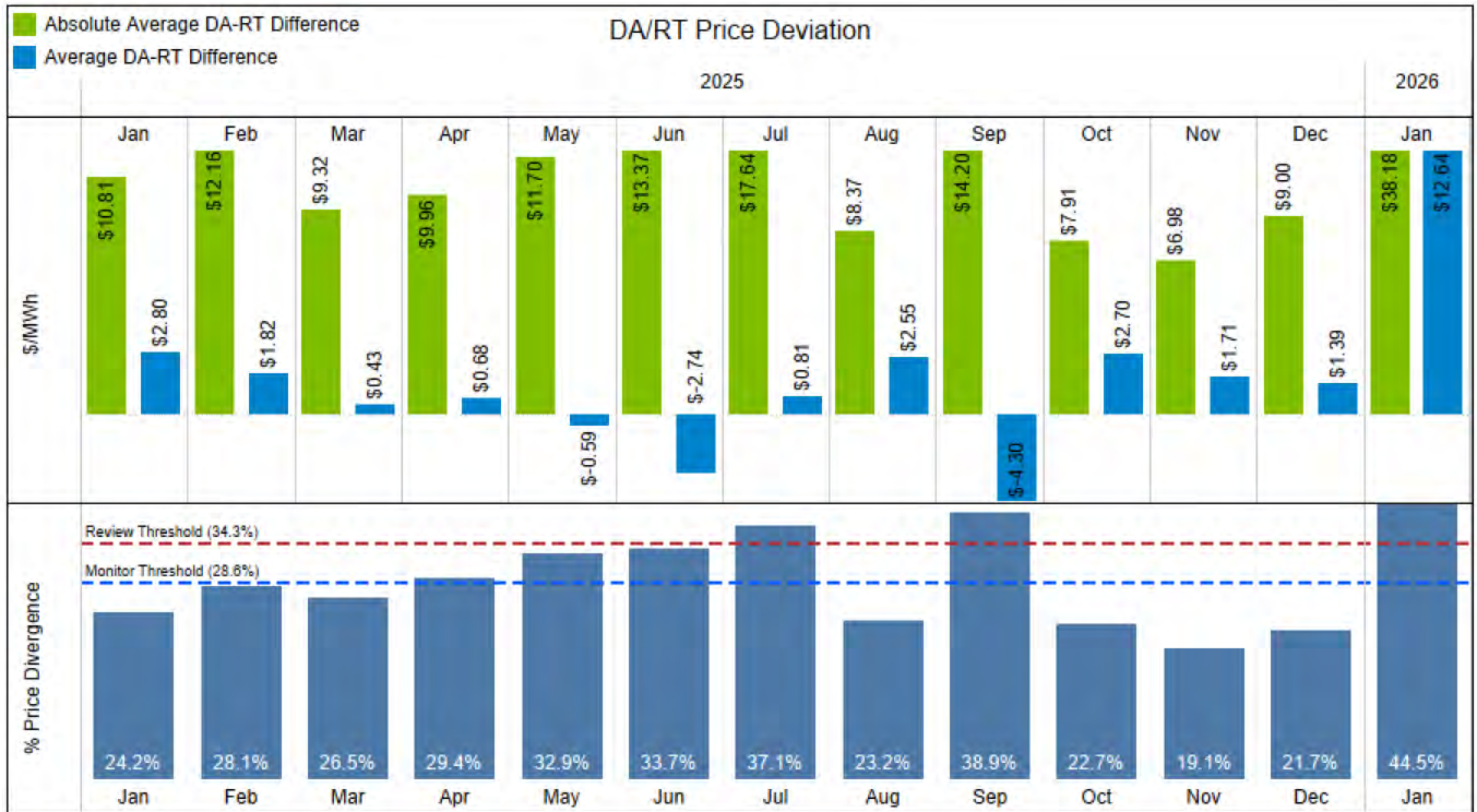
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MISO System-wide Day-Ahead and Real-Time Locational Marginal Pricing



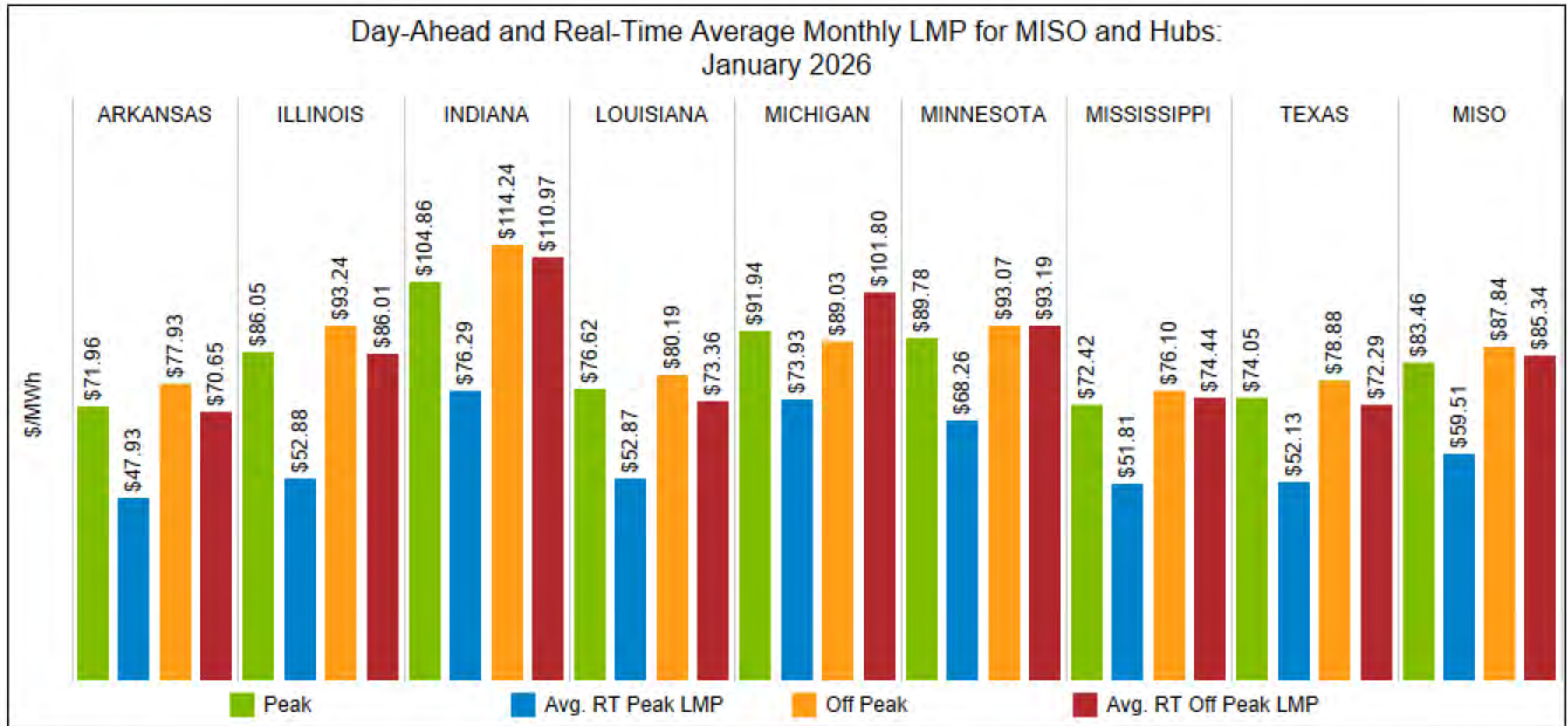
Note: MISO System-Wide price is based on the monthly hourly average of the active hubs
 Source: MISO Market and Operations Analytics Department

Price Convergence: Day-Ahead and Real-Time Locational Marginal Pricing



*Monthly deviation, expressed as a percent of average DA LMP, is calculated as the average of hourly absolute (DA-RT) price difference divided by the average of hourly DA LMPs for the month

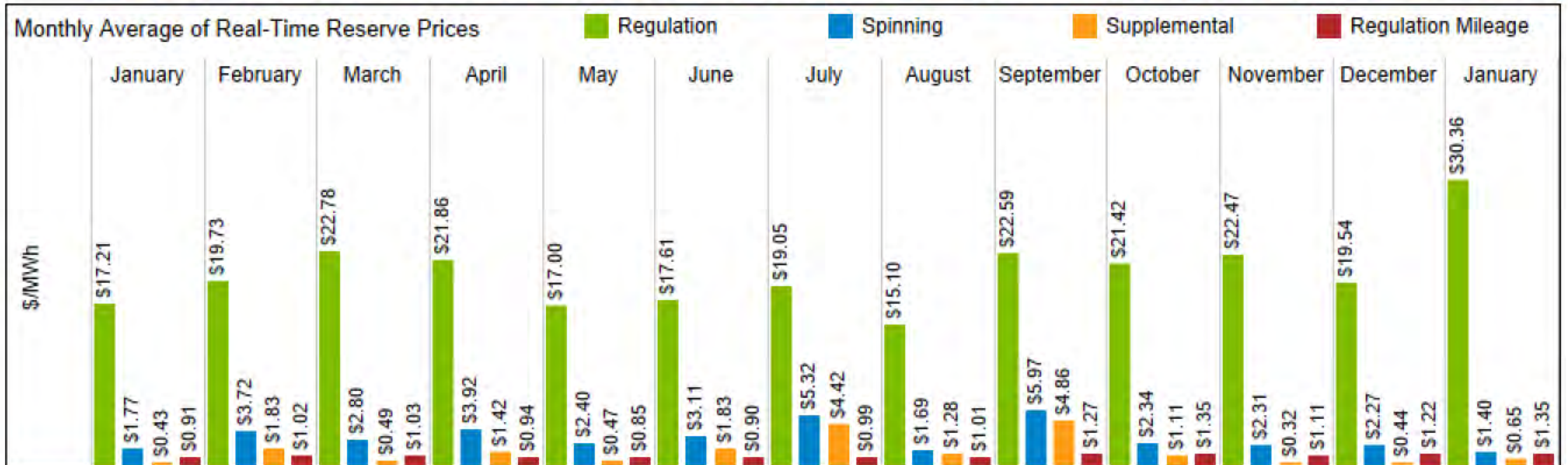
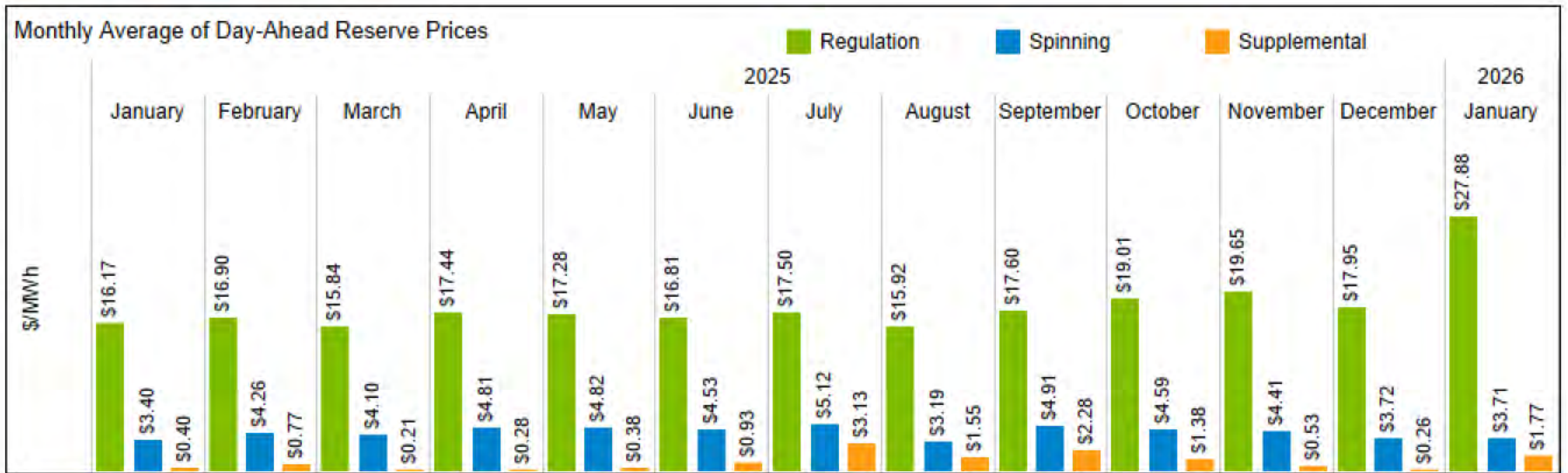
MISO Day-Ahead and Real-Time Hub Locational Marginal Pricing



		ARKANSAS	ILLINOIS	INDIANA	LOUISIANA	MICHIGAN	MINNESOTA	MISSISSIPPI	TEXAS	MISO
Marginal Congestion Component of LMP (\$/MWh)	DA Peak	-19.42	-3.80	7.01	-18.00	-4.12	0.56	-20.99	-19.98	-9.84
	RT Peak	-14.69	-10.33	9.05	-11.81	7.01	0.66	-12.45	-12.20	-5.59
	DA Off Peak	-20.60	-3.03	8.97	-20.14	-15.13	-3.49	-23.69	-21.34	-12.31
	RT Off Peak	-23.06	-8.46	11.41	-21.85	4.22	-6.87	-20.58	-22.51	-10.96

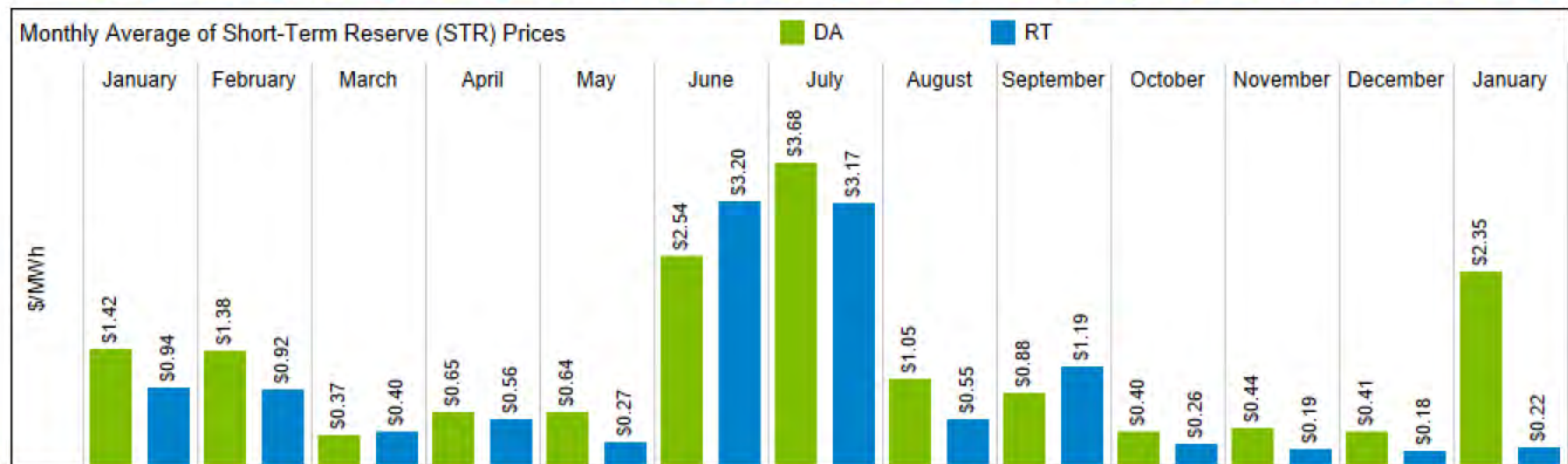
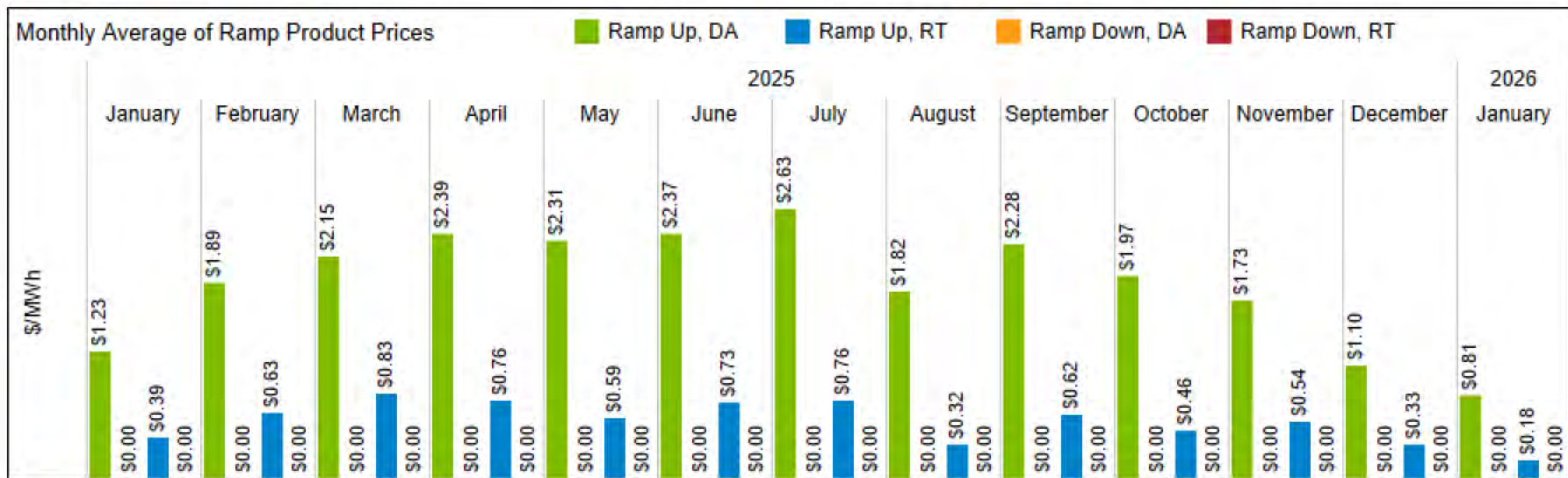
Source: MISO Market and Operations Analytics Department

Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



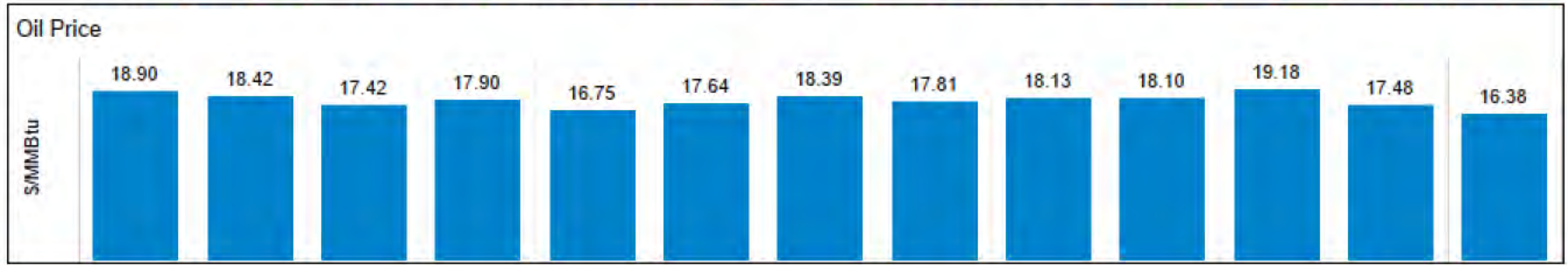
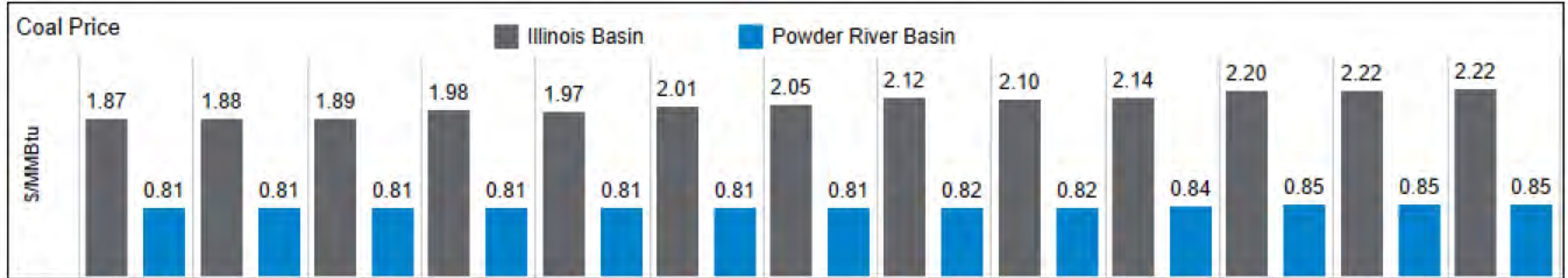
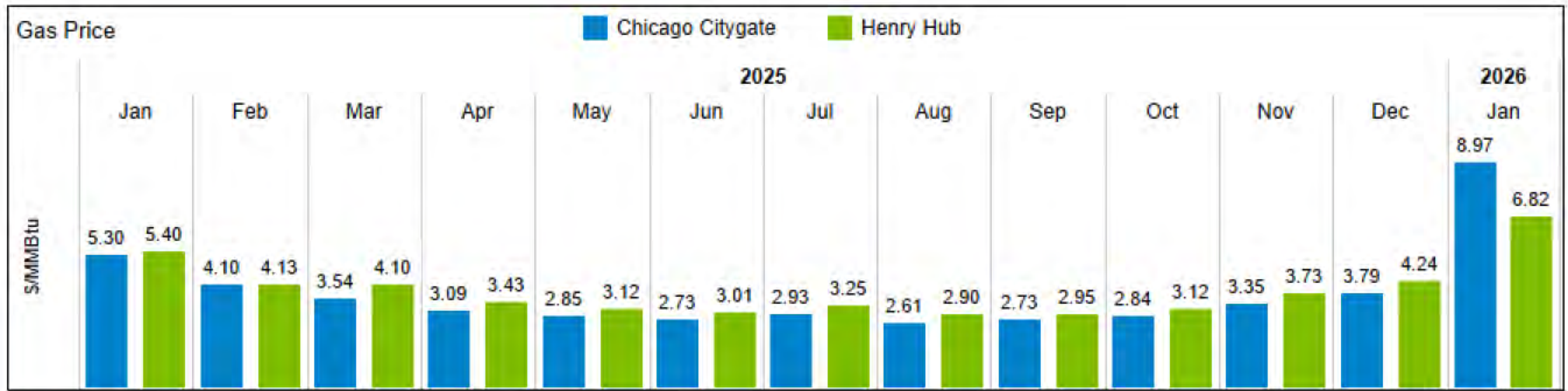
Source: MISO Market and Operations Analytics Department

Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



Source: MISO Market and Operations Analytics Department

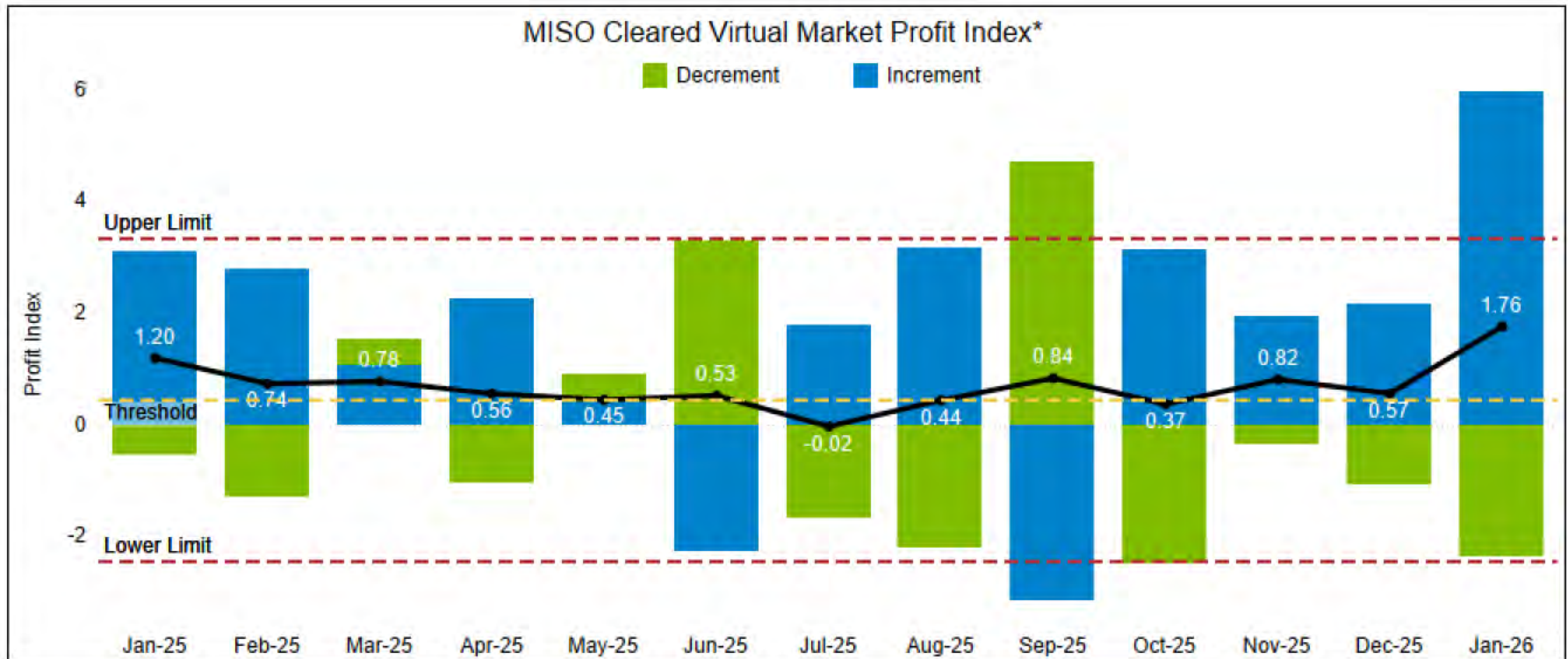
Nominal Fuel Prices



Monthly oil prices are estimates and subject to change upon finalization

Source: EIA

Monthly Average Gross Virtual Profitability



Monthly Standard Deviation												
Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
1.81	2.21	1.16	1.15	2.04	1.61	2.64	1.01	1.47	0.75	1.03	1.50	8.36

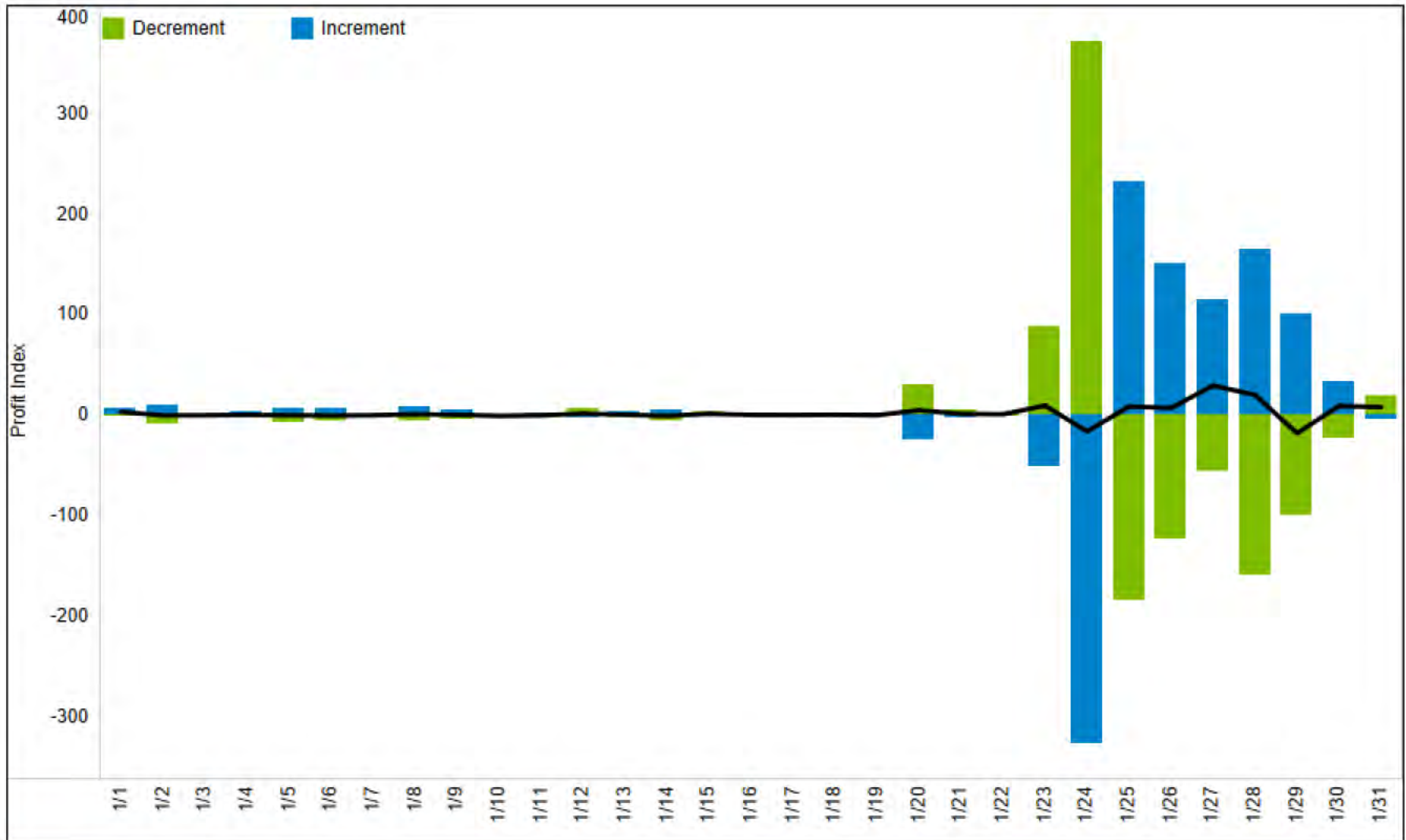
* The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions.

* Virtual profits/losses are calculated by multiplying the cleared virtual MW and the imbalance between RT LMP and DA LMP for a cpnode, then summed across all cpnodes, all hours.

* Upper Limit is Threshold (average of monthly indices from the previous year) plus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusive)

* Lower Limit is Threshold (average of monthly indices from the previous year) minus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusive)

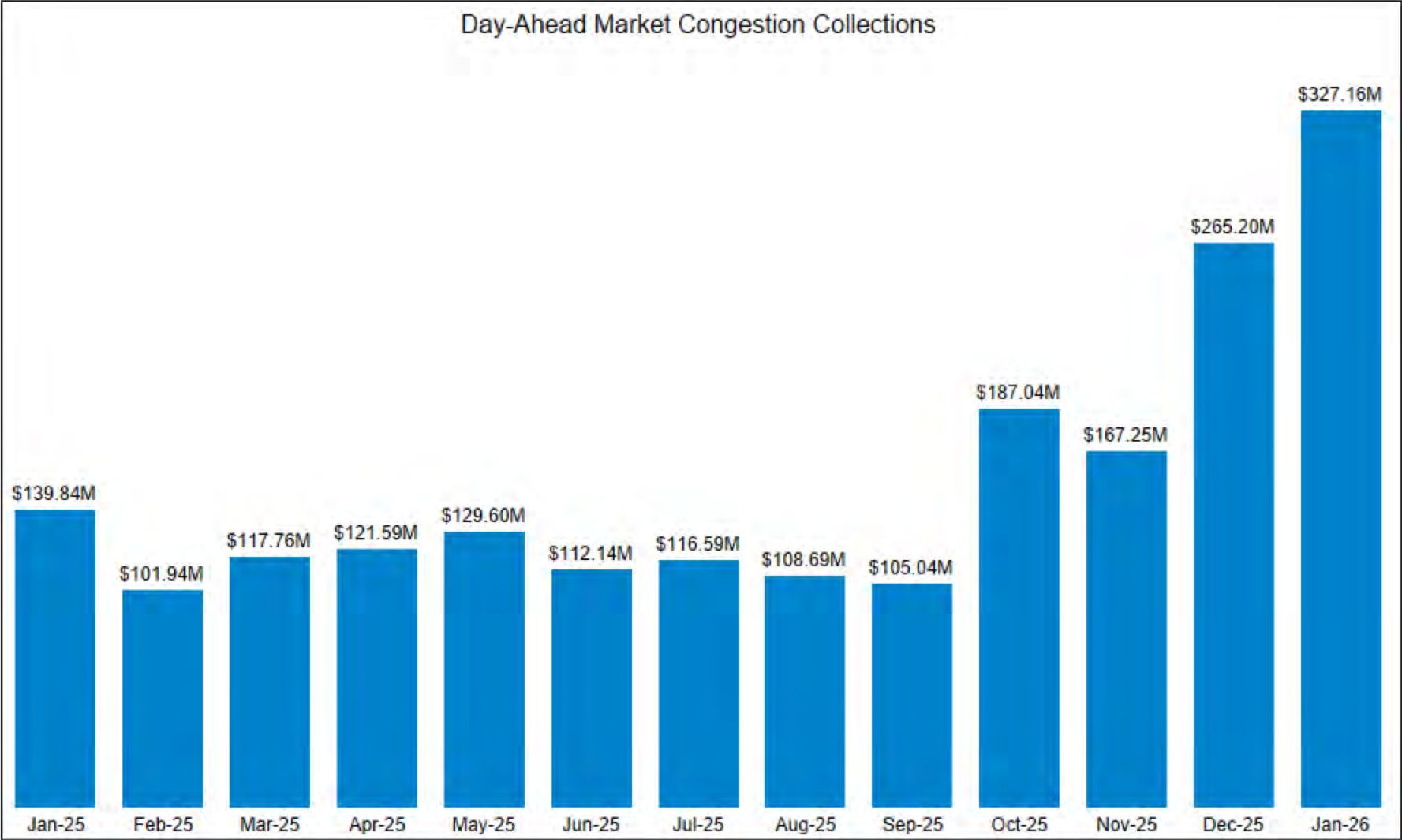
Daily Gross Cleared Virtual Profitability



The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions

Source: MISO Market and Operations Analytics Department

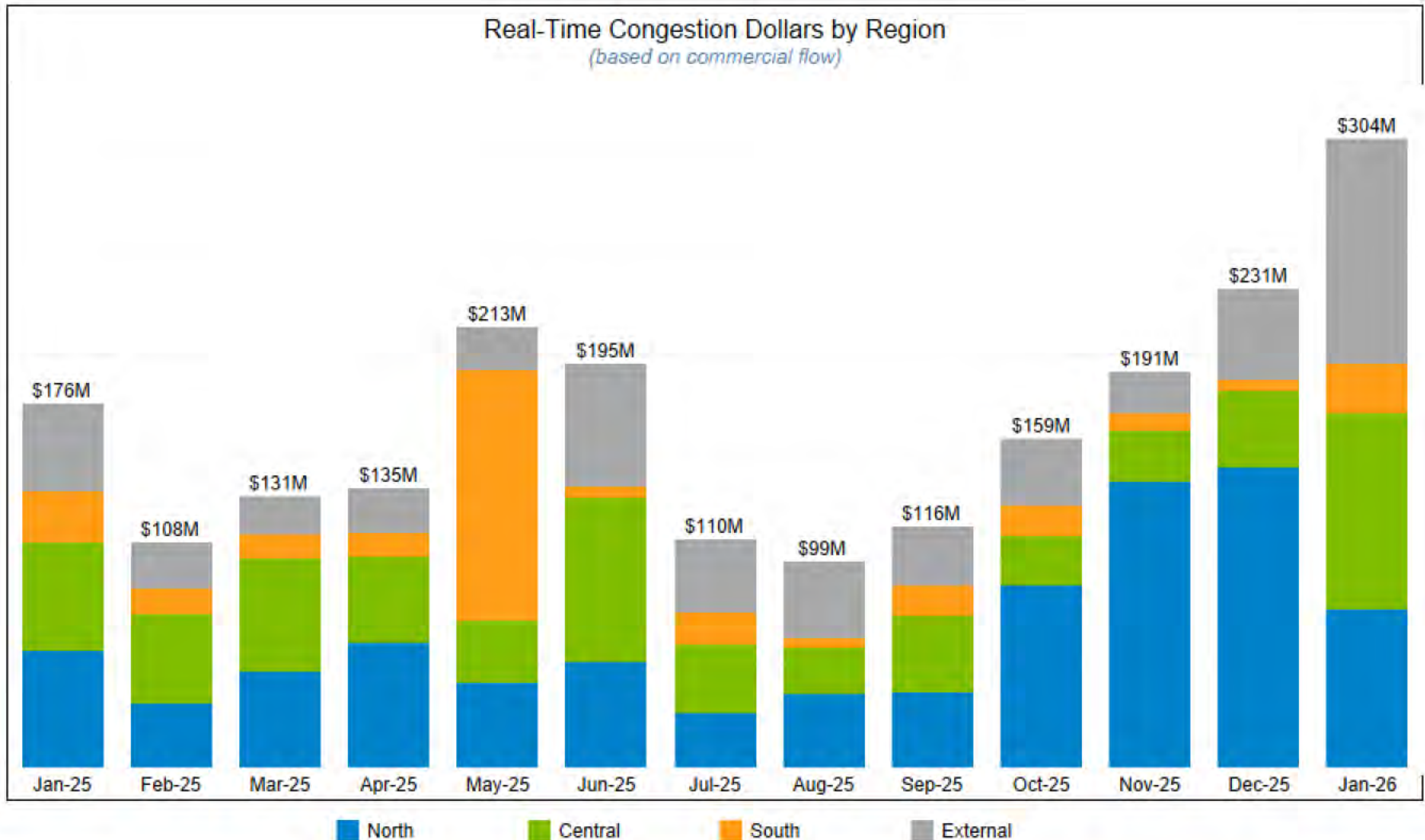
Day-Ahead Congestion Collections



Source: MISO Market and Operations Analytics Department

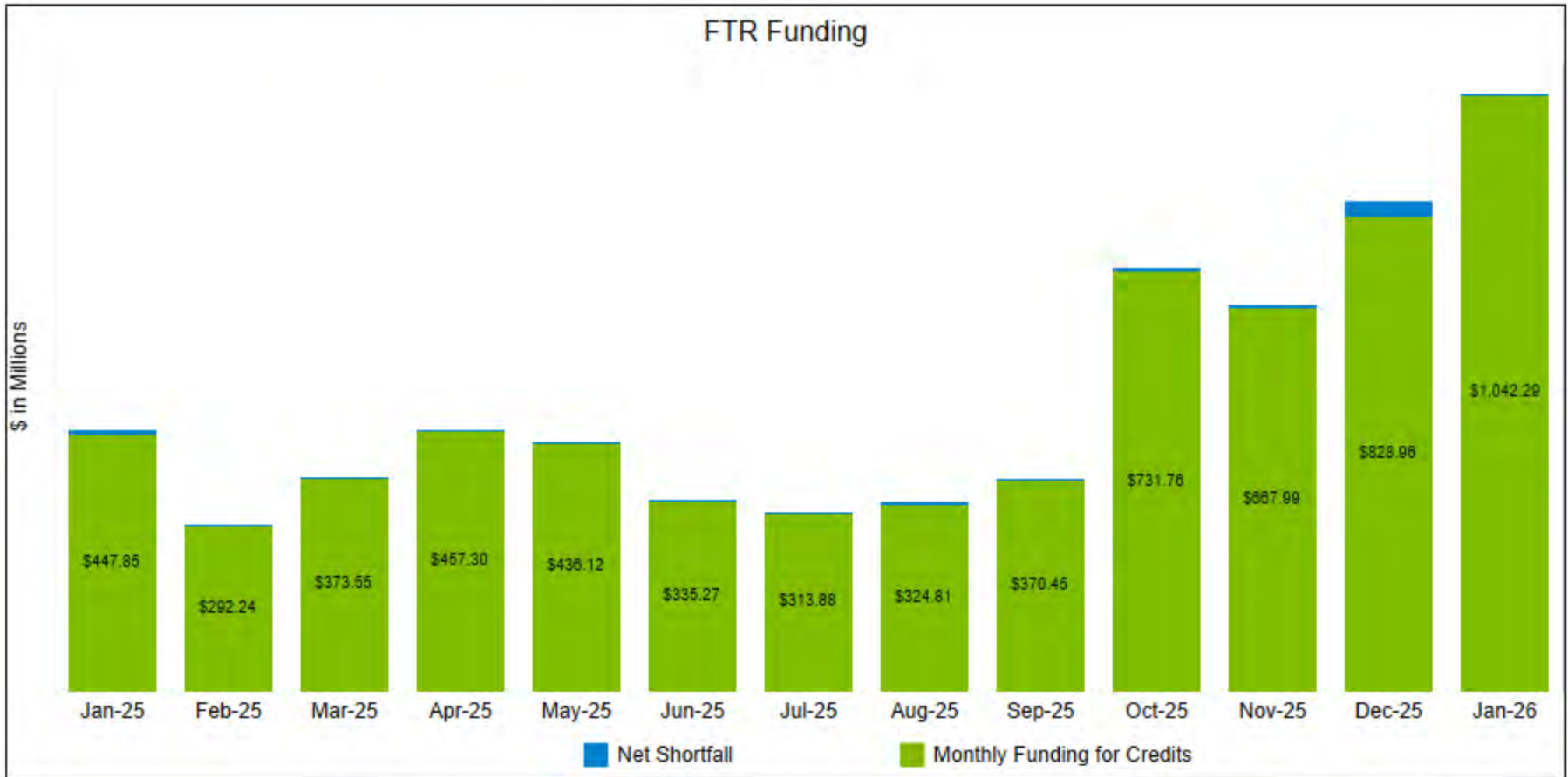


Real-Time Congestion Dollars by Region



Includes External Constraints
Commercial Flow excludes phase angle regulators and loop flows
Source: MISO Market and Operations Analytics Department

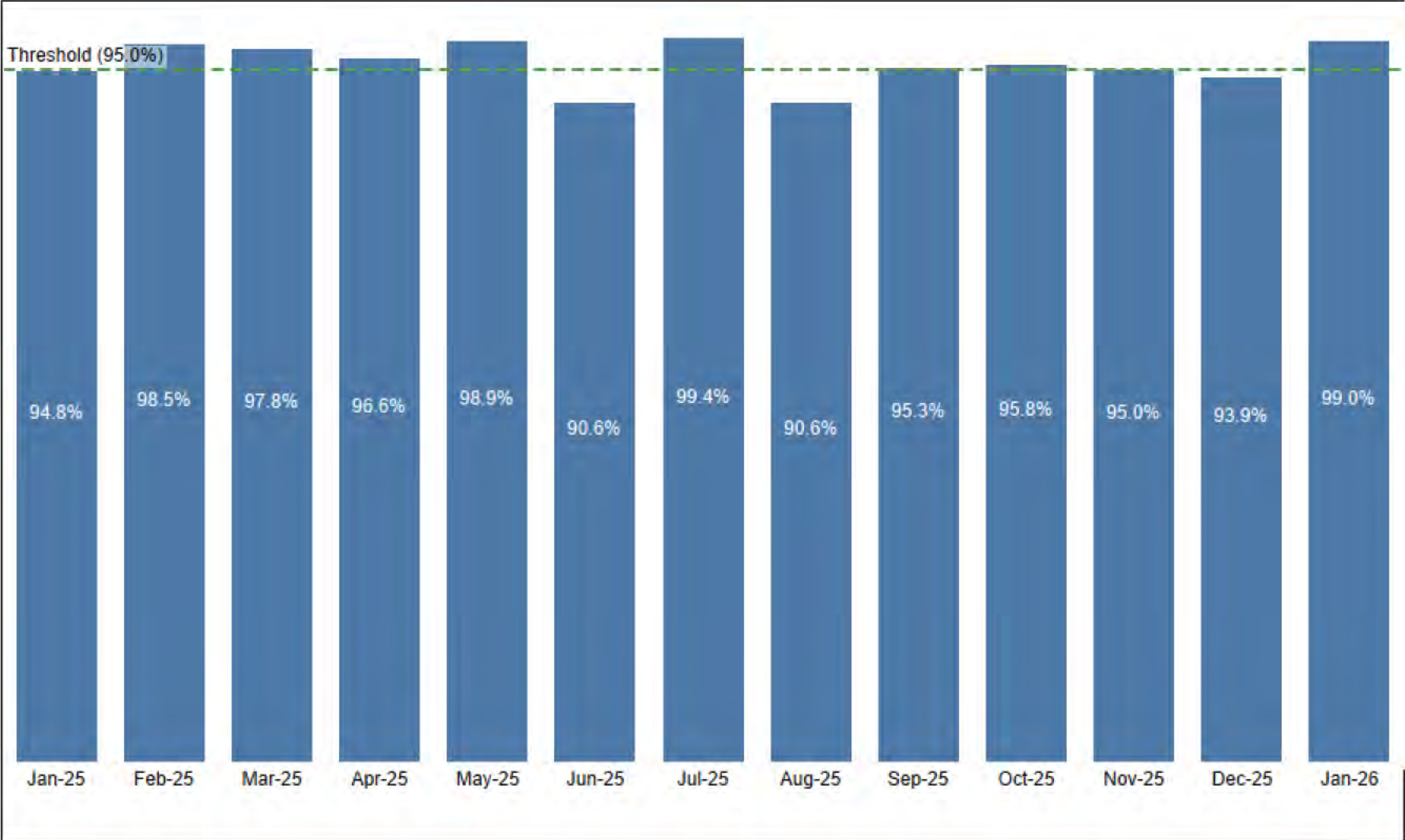
Financial Transmission Rights, Monthly and Rolling Year-to-Date Allocation Funding



	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Monthly FTR Allocation (%)	97.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.3%	100.0%	99.0%	99.1%	96.8%	100.0%
YTD FTR Allocation (%)	NA	NA	NA	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	NA

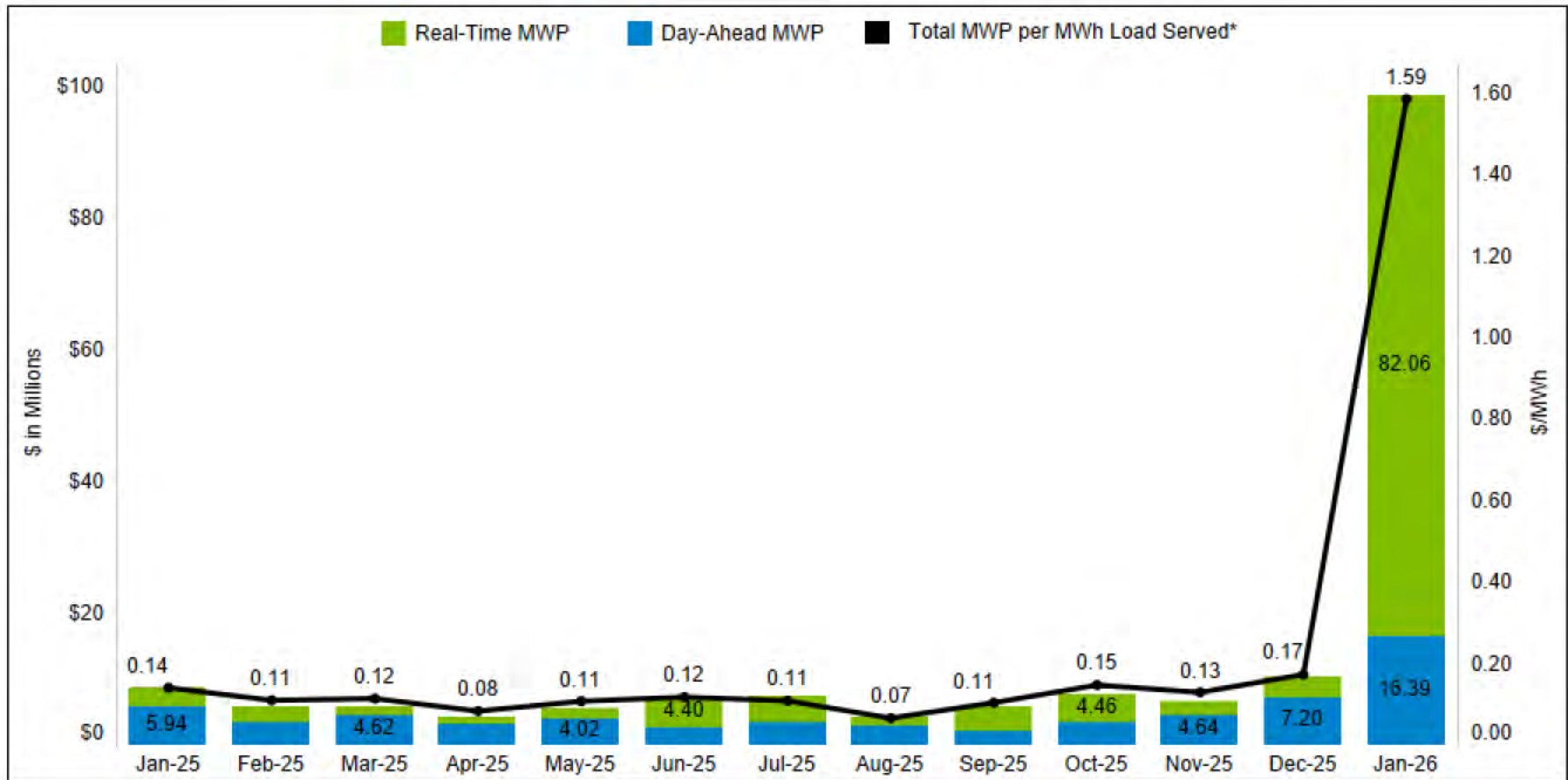
YTD metric is applied beginning April
 Values may change due to resettlement
 Source: MISO Market ECF Report

Market Funding Efficiency



Values may change due to resettlement
Source: MISO Market ECF Report

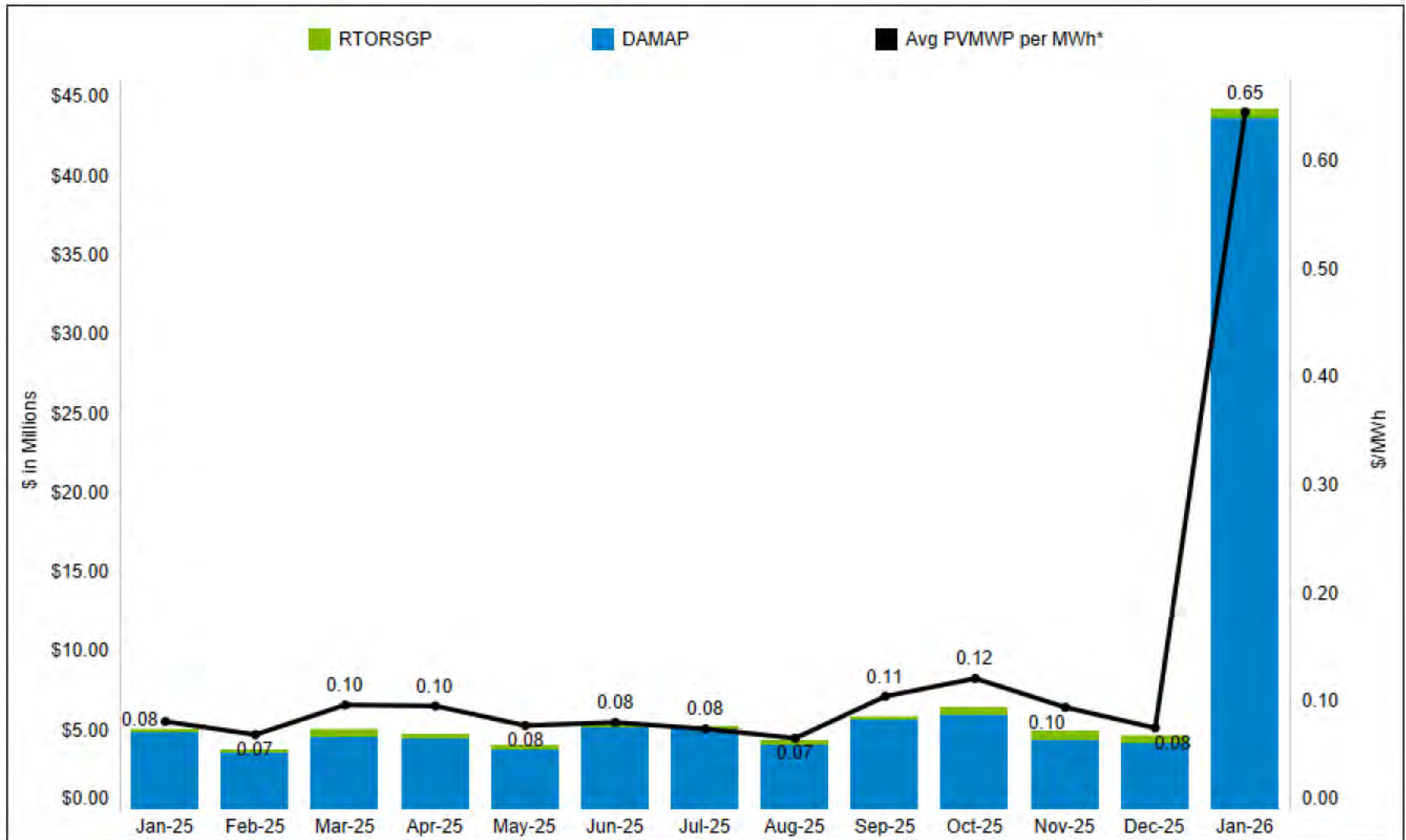
Day-Ahead and Real-Time Revenue Sufficiency Guarantee E



	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Chicago Gas Prices (\$/MMBtu)	5.30	4.10	3.54	3.09	2.85	2.73	2.93	2.61	2.73	2.84	3.35	3.79	8.97
Henry Gas Prices (\$/MMBtu)	5.40	4.13	4.10	3.43	3.12	3.01	3.25	2.90	2.95	3.12	3.73	4.24	6.82
^^RSG Per MWh to Energy Price (%)	0.32	0.26	0.33	0.25	0.31	0.30	0.23	0.19	0.29	0.43	0.36	0.42	1.85

*Based on hourly ICCP Data; ^^metric value
 Values may change due to resettlement
 Source: The Web-based Revenue Sufficiency Guarantee Report

Price Volatility Make Whole Payment



*Hourly ICCP data

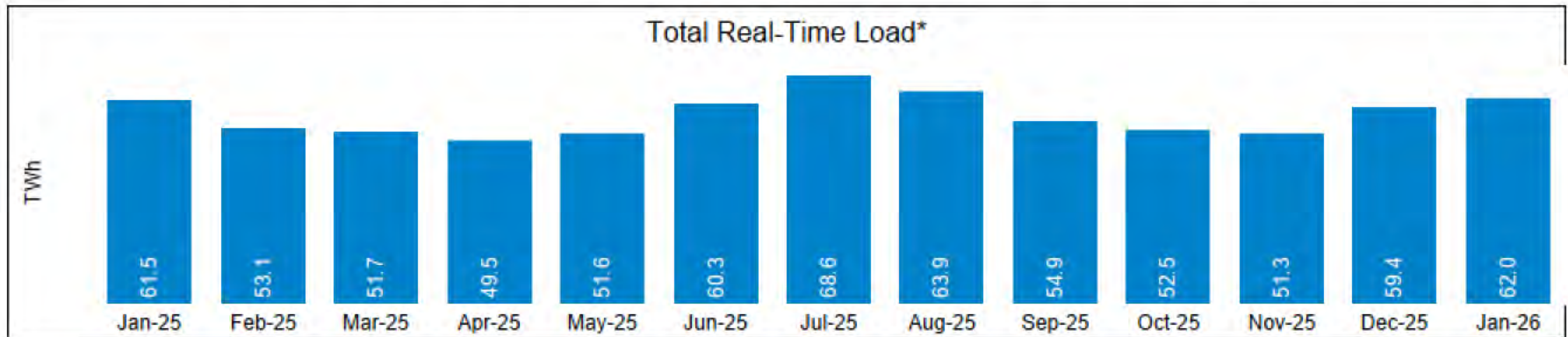
Source: Web-based Revenue Neutrality Uplift Report

Day-Ahead and Real-Time Cleared Physical Energy



Day-Ahead Cleared Load Value (including Virtuals)

Month	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Value (\$B)	\$3.20B	\$2.68B	\$1.93B	\$1.87B	\$2.14B	\$2.97B	\$4.17B	\$2.96B	\$2.50B	\$2.27B	\$2.30B	\$3.04B	\$6.58B

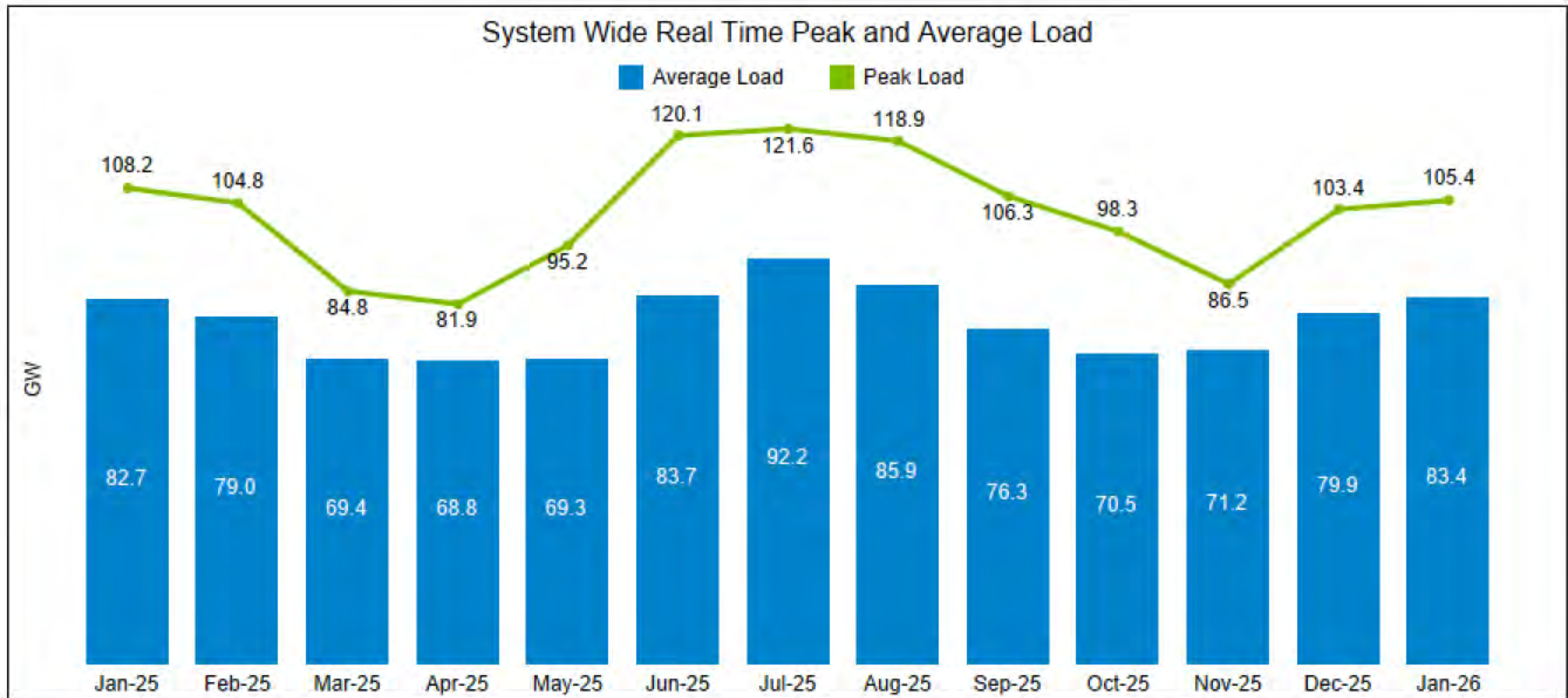


Real-Time Cleared Load Value (\$ in Billions)

Month	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Value (\$B)	\$2.64B	\$2.21B	\$1.65B	\$1.55B	\$1.95B	\$3.00B	\$3.68B	\$2.44B	\$2.49B	\$1.75B	\$1.88B	\$2.48B	\$5.10B

*Sum of Hourly ICCP Load Data
Source: MISO Market and Operations Analytics Department

Monthly System Load and Temperature



System Wide Load Weighted Temperature			
	Jan-25	Dec-25	Jan-26
Average	18°F	25°F	18°F
Maximum	49°F	51°F	52°F
Minimum	-13°F	-8°F	-12°F

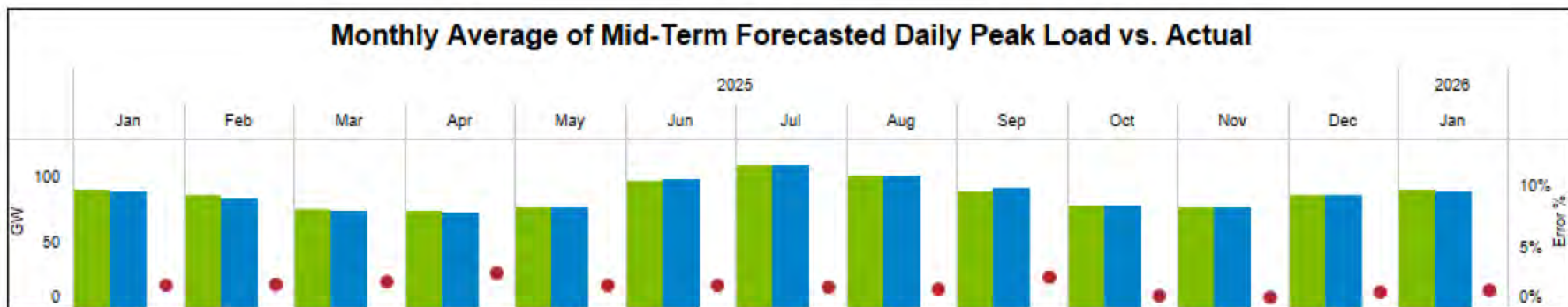
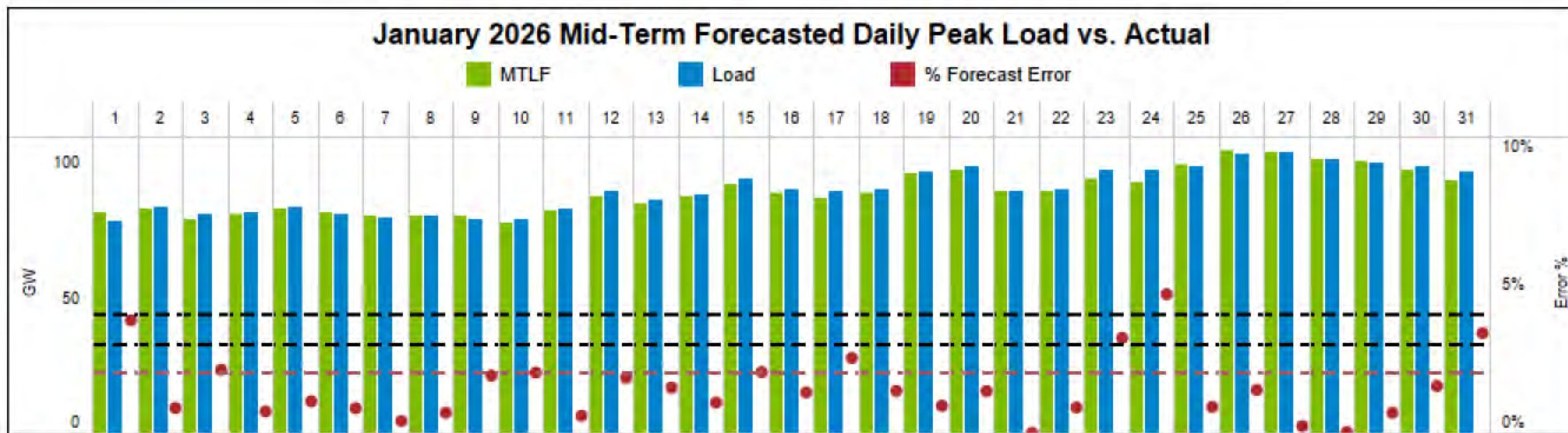
Load Weighted Heating & Cooling Degree Days				
	Average HDD	Std Dev HDD	Average CDD	Std Dev CDD
Jan-26	43.90	15.73	0.00	0.00
Dec-25	37.16	12.31	0.00	0.00
Jan-25	44.19	12.01	0.00	0.00

	Hours with Load Greater than:		
	100 GW	80 GW	60 GW
Jan-26	15	452	744
Dec-25	3	392	736
Jan-25	26	440	744

*Monthly data based on hourly ICCP Load Data; Hourly Integrated Peak Load Hour could differ from the Instantaneous Peak Load Hour.
Source: MISO Market and Operations Analytics Department



Day-Ahead Mid-Term Load Forecast*



	2025												2026
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
% Std of Error (CV)	77.55	60.87	54.00	40.07	78.87	71.95	75.03	72.03	65.02	88.18	72.13	84.88	75.05
Mean of Error (MW)	1,742	1,674	1,671	2,191	1,474	1,852	1,950	1,670	2,382	841	731	1,167	1,369
Std of Error (MW)	1,351	1,019	902	878	1,159	1,332	1,463	1,203	1,549	742	527	990	1,027

* Monthly data based on the average of the daily integrated peak hours in the month

* Daily data based on the integrated peak hour of the day

* Peak Day and Hour End based on Hourly Integrated Peak Load Hour

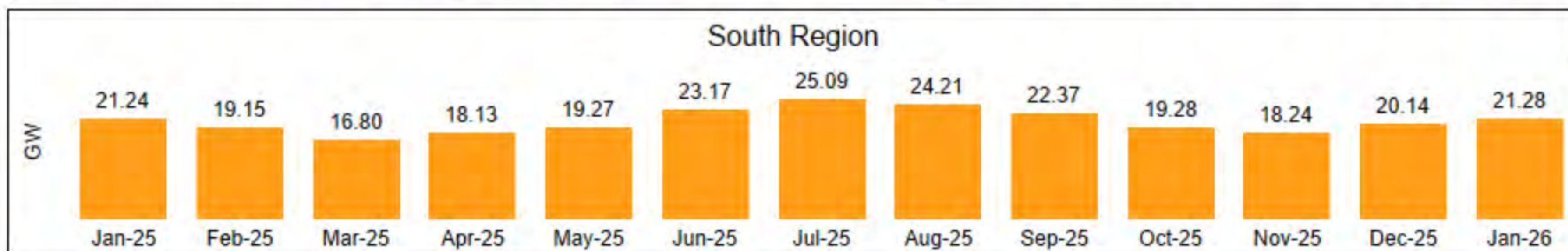
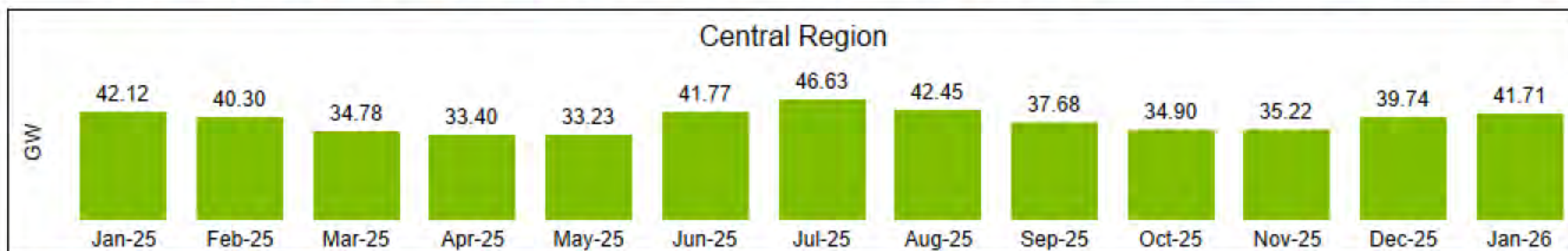
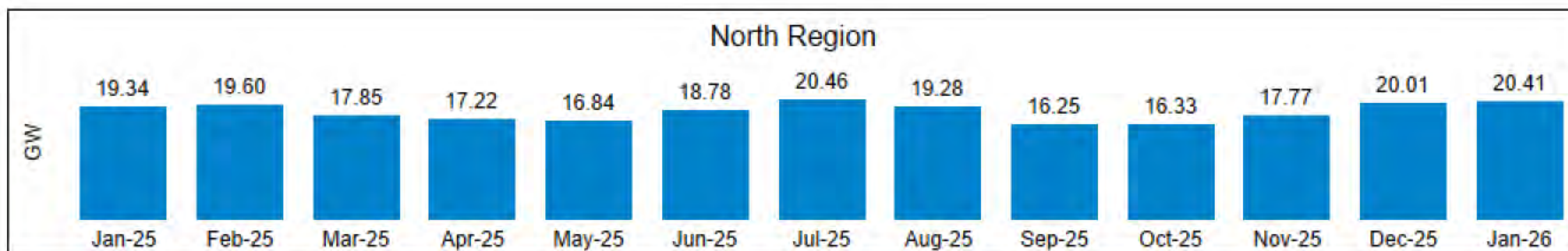
Short-Term Load Forecast*

January 2026 Short-Term Forecasted Daily Peak Load vs Actual



Daily data based on the average of five-minute interval data at the peak hour of the day
 Error Threshold calculated as 95% quantile of Forecast Error from Jan-Dec of the previous year
 Peak Day and Hour End based on Hourly Integrated Peak Load Hour

Average Load by Region



Hourly Integrated System Load Peak Hour Ending: 01/27/2026 09 EST

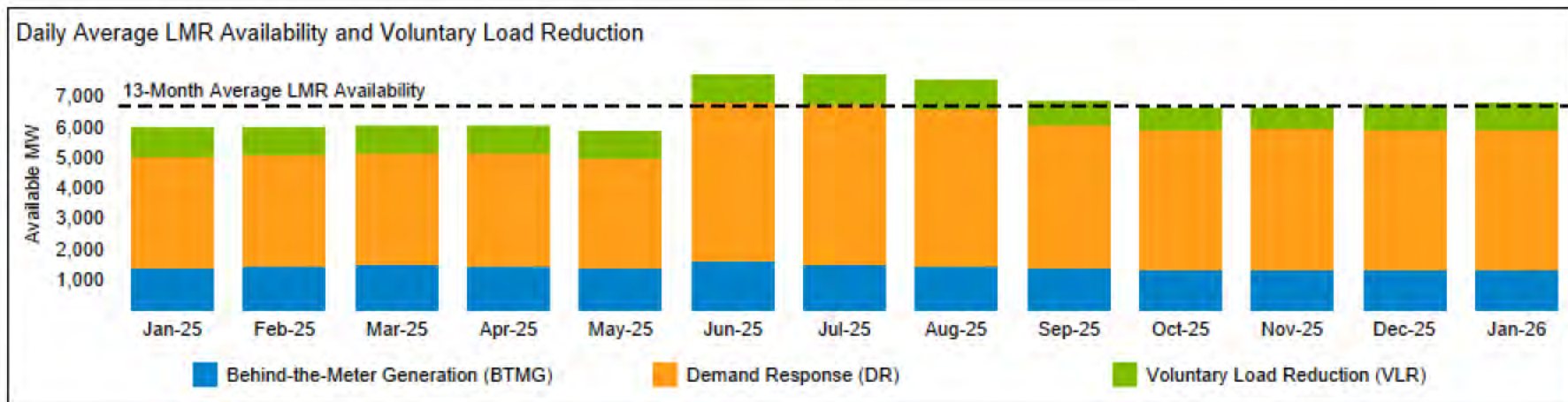
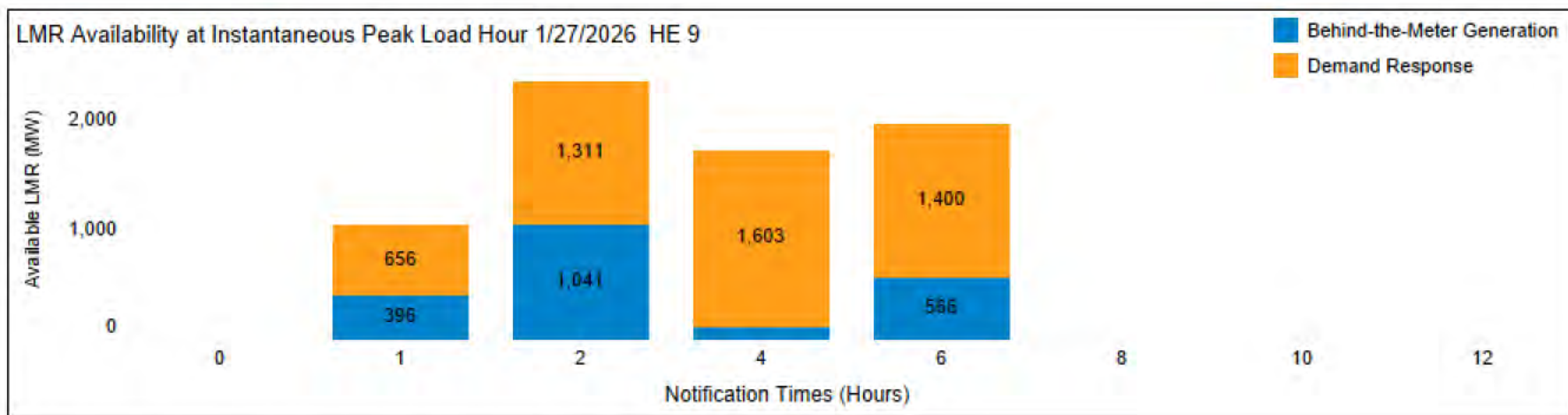
North	23.80 GW
Central	52.19 GW
South	30.57 GW
MISO	104.14 GW

*Monthly data based on hourly ICCP Load Data; Hourly Integrated Peak Load Hour could differ from the Instantaneous Peak Load Hour.

Source: MISO Market and Operations Analytics Department

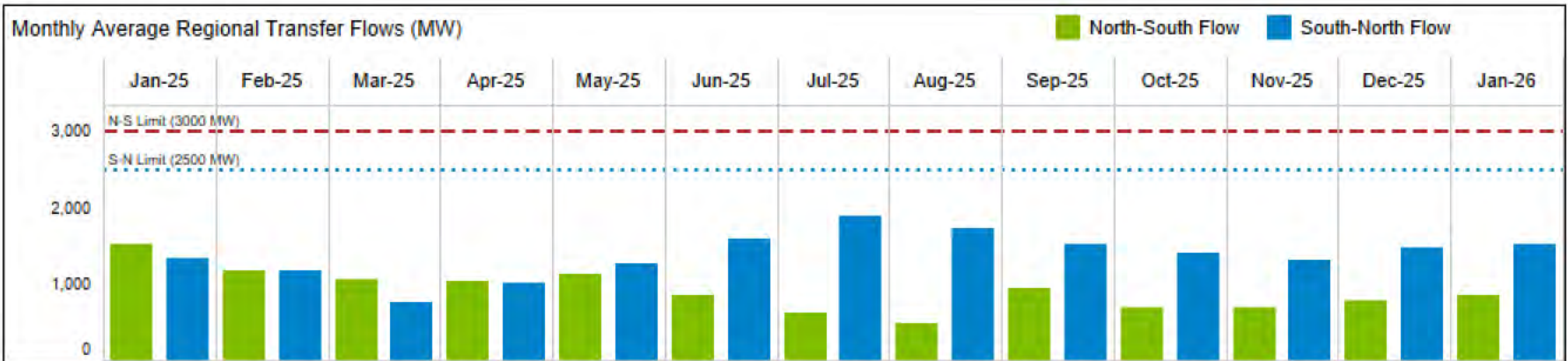


Market Participant entered Load Modifying Resource (LMR) Availability



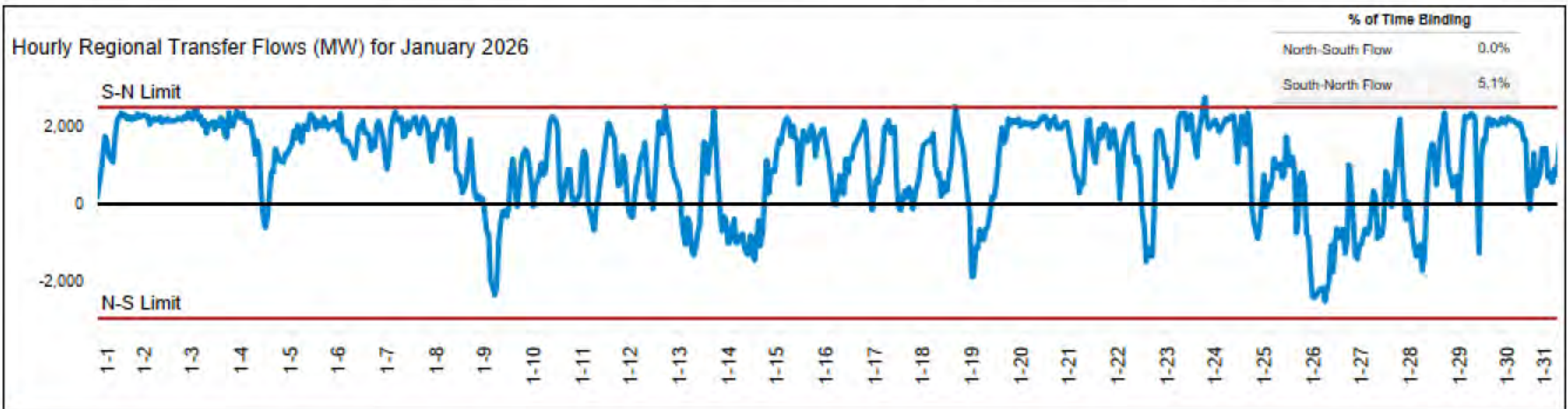
PRA Auction	BTMG (MW)	DR (MW)	Total BTMG and DR (MW)
Summer 2024	4,144	8,109	12,253
Summer 2025	4,283	9,004	13,287

Regional Directional Transfer**



Percentage of Time Regional Directional Flow

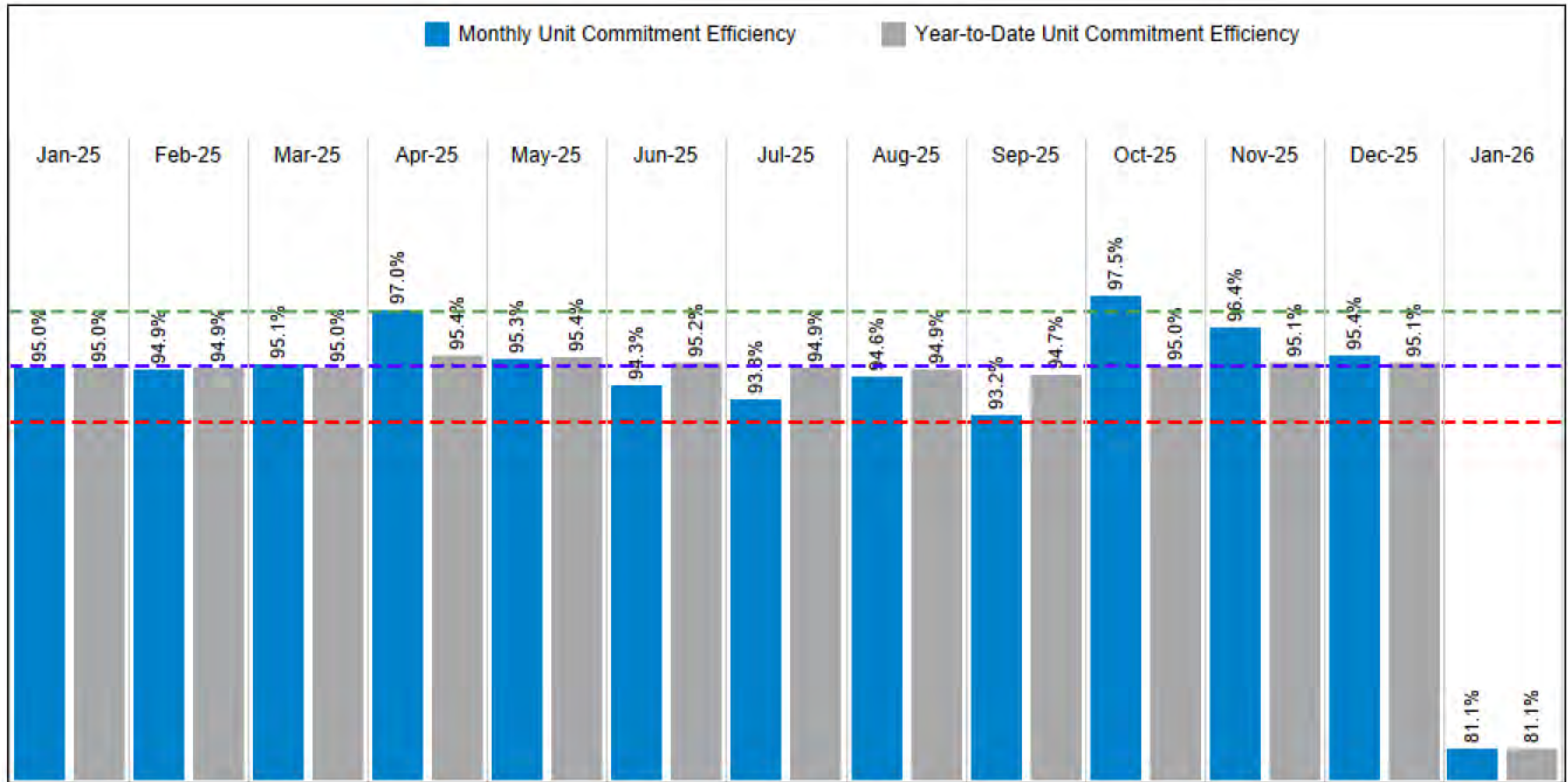
	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
North-South Flow	29%	40%	61%	44%	49%	26%	3%	4%	12%	19%	15%	13%	18%
South-North Flow	71%	60%	39%	56%	51%	74%	97%	96%	88%	81%	85%	87%	82%



**Regional Directional Transfer between MISO South and Central/North Regions
 Source: MISO Markets and Operations Analytics Department

Unit Commitment Efficiency

Effectively commit generation to meet demand obligations and mitigate constraints

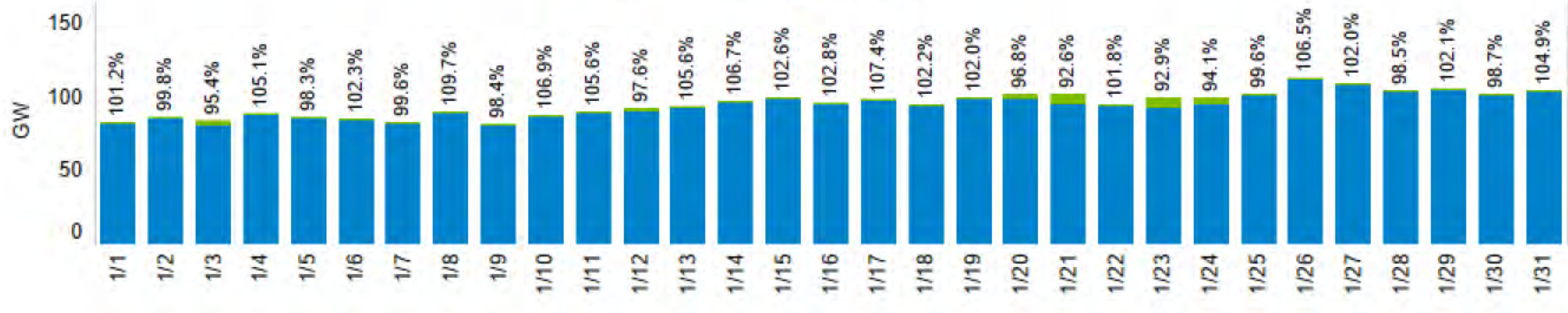
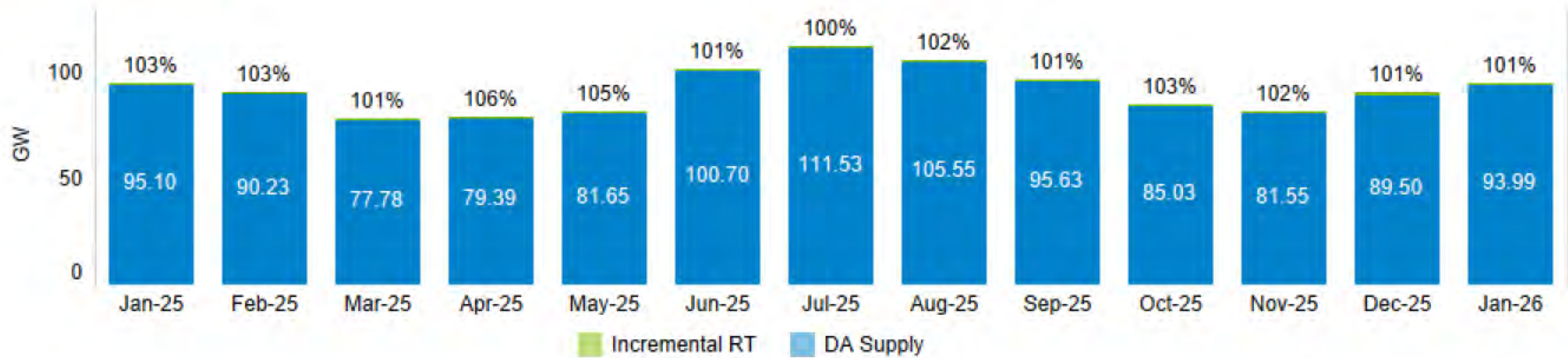


	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Actual Cost	\$1,311M	\$1,069M	\$819M	\$756M	\$829M	\$1,095M	\$1,427M	\$1,168M	\$1,041M	\$899M	\$929M	\$1,173M	\$2,130M
Optimal Cost	\$1,300M	\$1,061M	\$812M	\$752M	\$822M	\$1,085M	\$1,415M	\$1,159M	\$1,029M	\$894M	\$923M	\$1,163M	\$2,059M
Sunk Cost	\$1,095M	\$897M	\$673M	\$628M	\$678M	\$913M	\$1,229M	\$1,004M	\$864M	\$732M	\$758M	\$952M	\$1,756M

Source: MISO Optimal Dispatch Calculator (ODC)

Unit Commitment Efficiency = $1 - ((\text{Actual cost} - \text{Optimal cost}) / (\text{Actual cost} - \text{Sunk cost}))$

Day-Ahead Supply and Real-Time Load Obligation at the Peak Load Hour

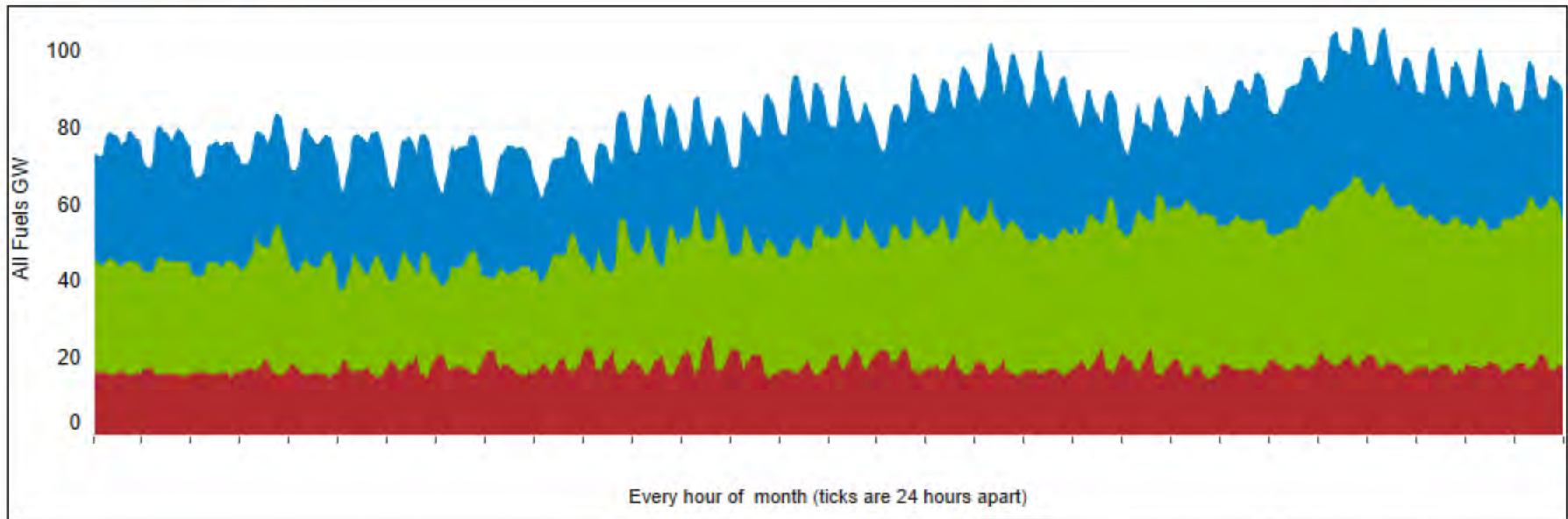


Incremental GW Committed in Real-Time

1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31
-0.94	0.17	3.83	-4.33	1.44	1.90	0.36	-7.96	1.28	-6.85	-4.75	2.17	-4.97	-8.11	-2.47	-2.58	-6.81	-2.01	-1.92	3.29	7.58	-1.71	7.08	5.93	0.39	-6.87	-2.14	1.59	-2.17	1.30	-4.86

Day-Ahead Supply is the Day-Ahead Economic Maximum received in Real-Time plus Behind-the-Meter plus Day-Ahead NSI at the Peak Hour
Real-Time Obligation is the Real-Time ICCP Load plus Real-Time Regulation Requirement plus Real-Time Spinning Requirement at the Peak Hour
Real-Time Increment is the Real-Time Obligation less Day-Ahead Supply at the Peak Hour
 Percents calculated as Day-Ahead Supply divided by Real-Time Obligation

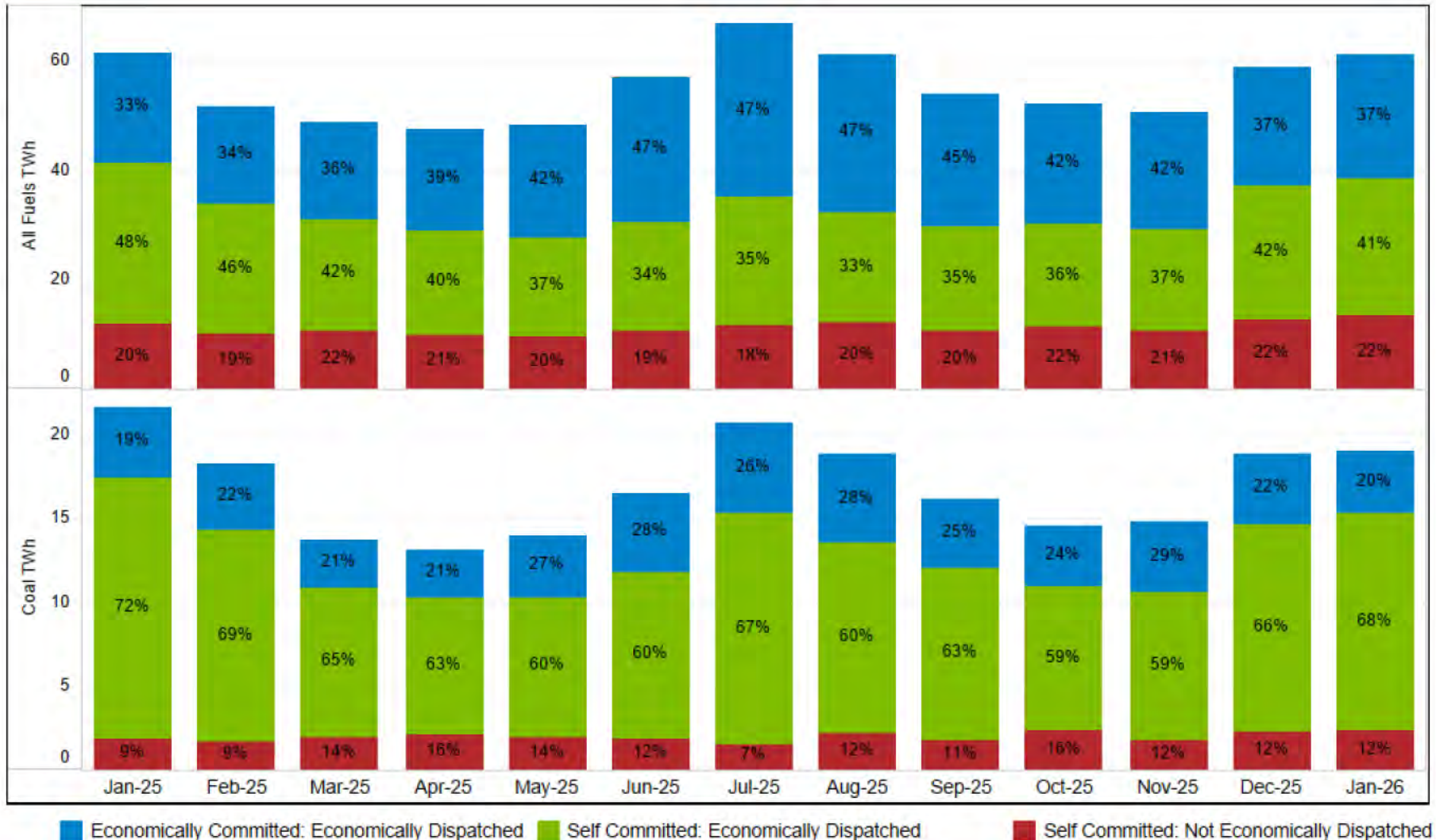
Self Committed and Economically Dispatched Energy - January 2026



	All Fuels		Coal		Gas	
	TWh	%	TWh	%	TWh	%
Economically Committed: Economically Dispatched	23.0	37%	3.8	20%	14.4	65%
Self Committed: Economically Dispatched	25.1	41%	13.0	68%	6.0	27%
Self Committed: Not Economically Dispatched	13.5	22%	2.4	12%	1.8	8%
Grand Total	61.6	100%	19.1	100%	22.2	100%

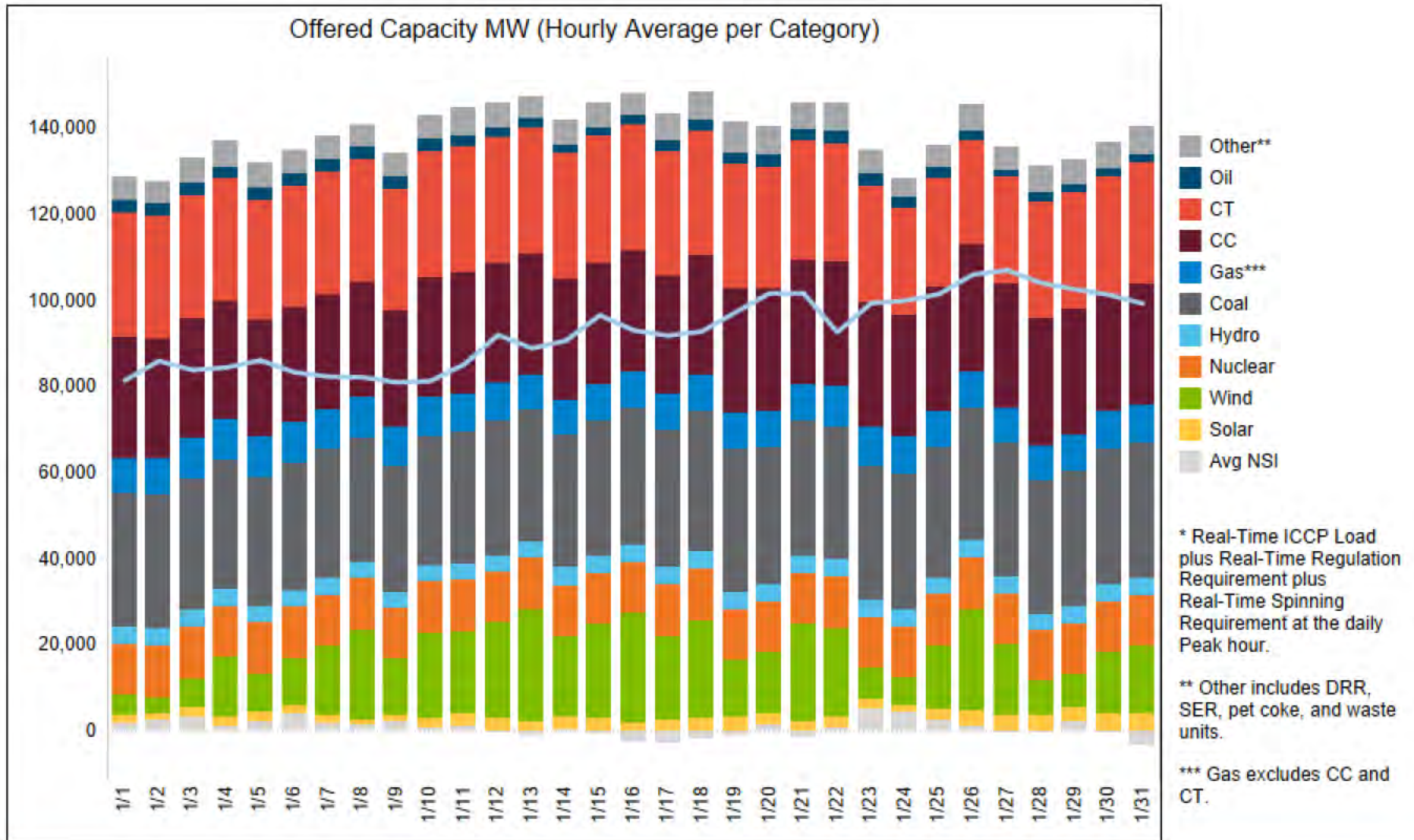
- Economically Committed: Economically Dispatched
 Generation committed by MISO and dispatched on economic offers.
- Self Committed: Economically Dispatched
 Generation that is self-committed, but Resource Owners allow MISO to dispatch economically after the self-schedule portion of their resource offer is satisfied. Self-commitments can be used to manage local reliability, operational constraints, and fuel contract constraints.
- Self Committed: Not Economically Dispatched
 Energy from self-committed generation produced at its minimum level or is block-loaded and cannot be dispatched. Block Loaded energy is not necessarily uneconomic, but MISO has no ability to dispatch it based on economics.

Monthly Trend - Self Committed and Economically Dispatched Energy



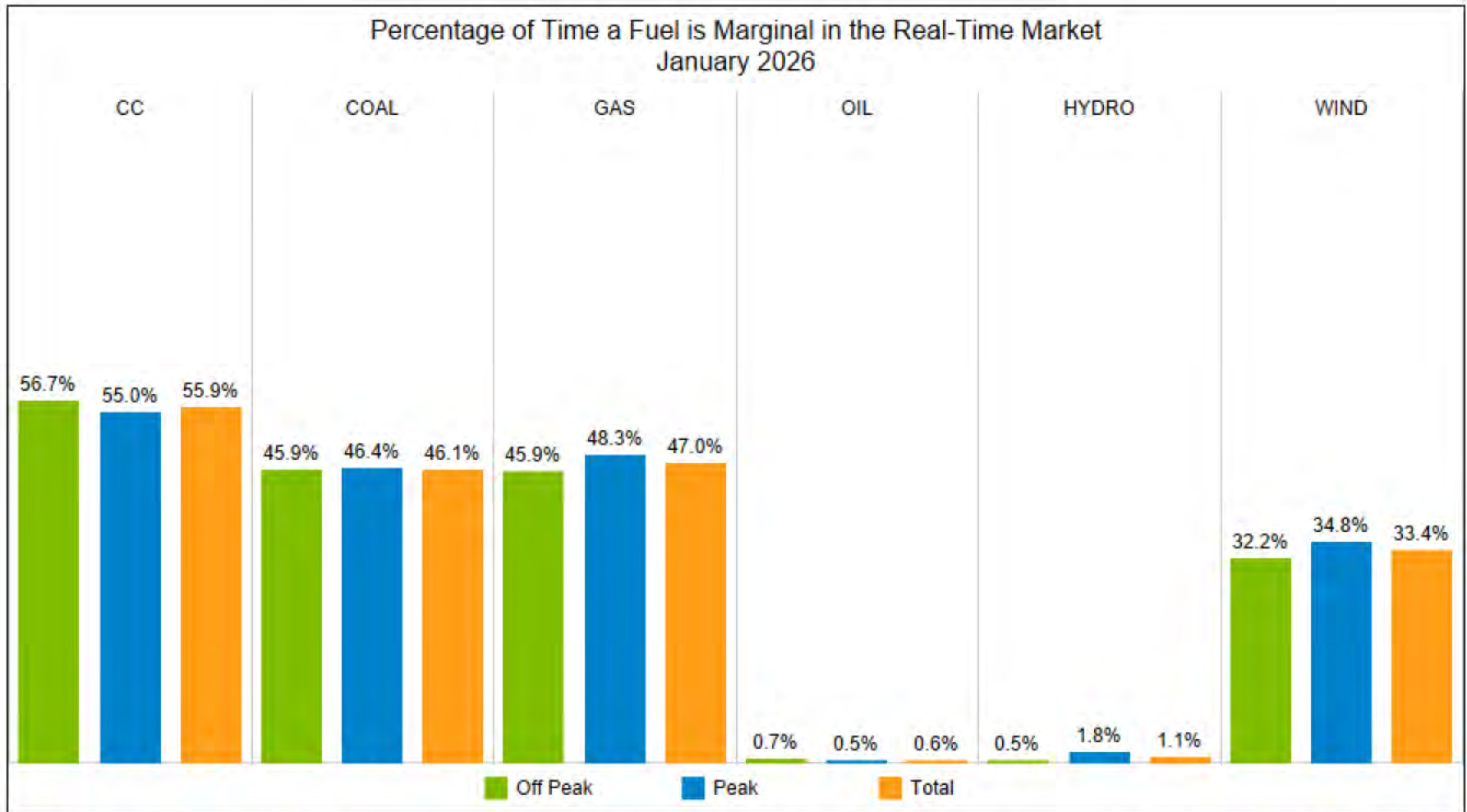
Source: MISO Market and Operations Analytics Department

Offered Capacity and Real-Time Peak Load Obligation



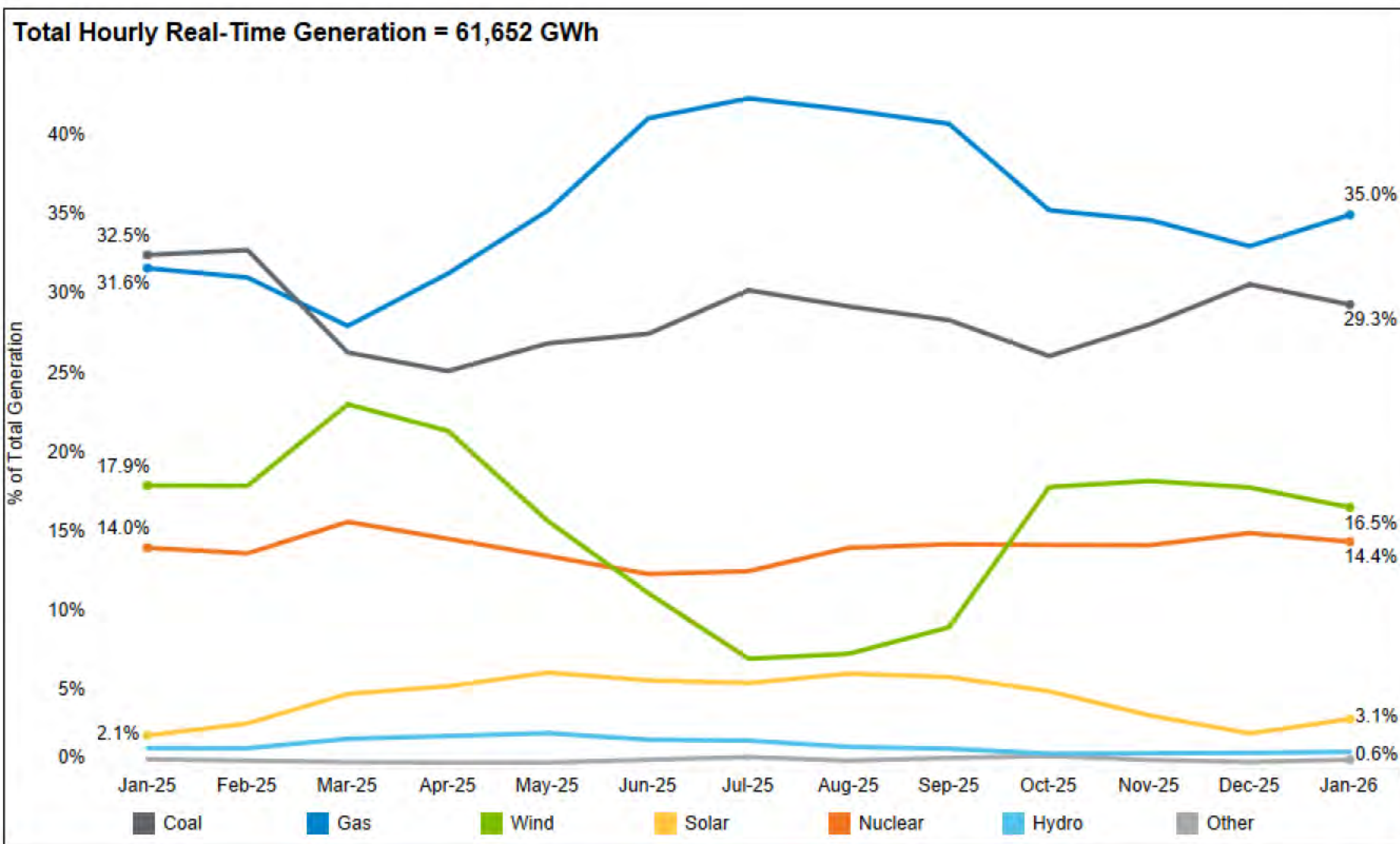
Source: MISO Market and Operations Analytics Department

Marginal Fuel



Note: Binding transmission constraints can produce instances where more than one unit is marginal in the system. Consequently, more than one fuel may be on the margin; and since each marginal unit is included in the analysis, the percentage may sum to more than 100%.

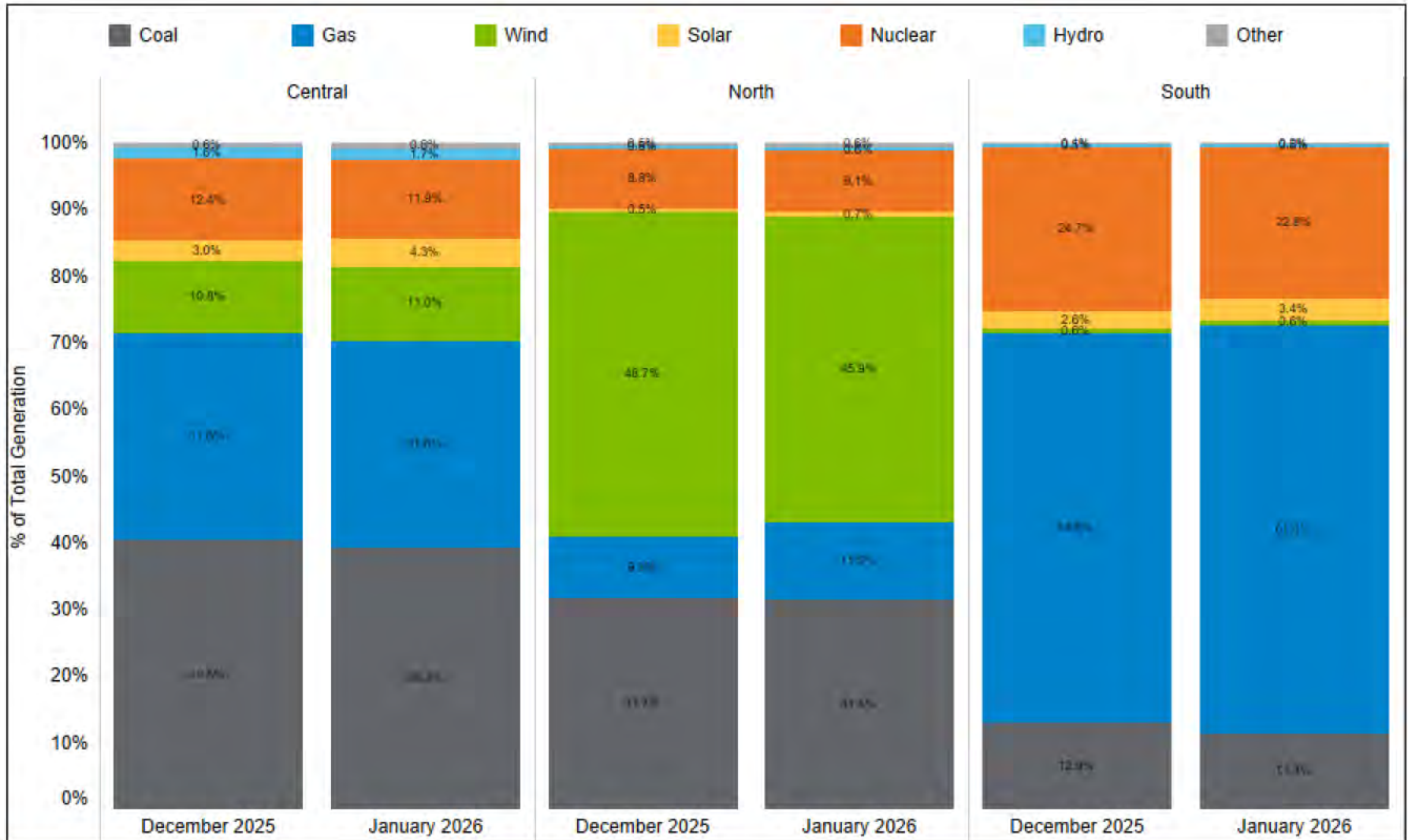
Real-Time Generation Fuel Mix



Based on hourly unit level state estimator data
 Other includes: Battery, Oil, Pet Coke, Waste and Other fuels
 Source: MISO Market and Operations Analytics Department



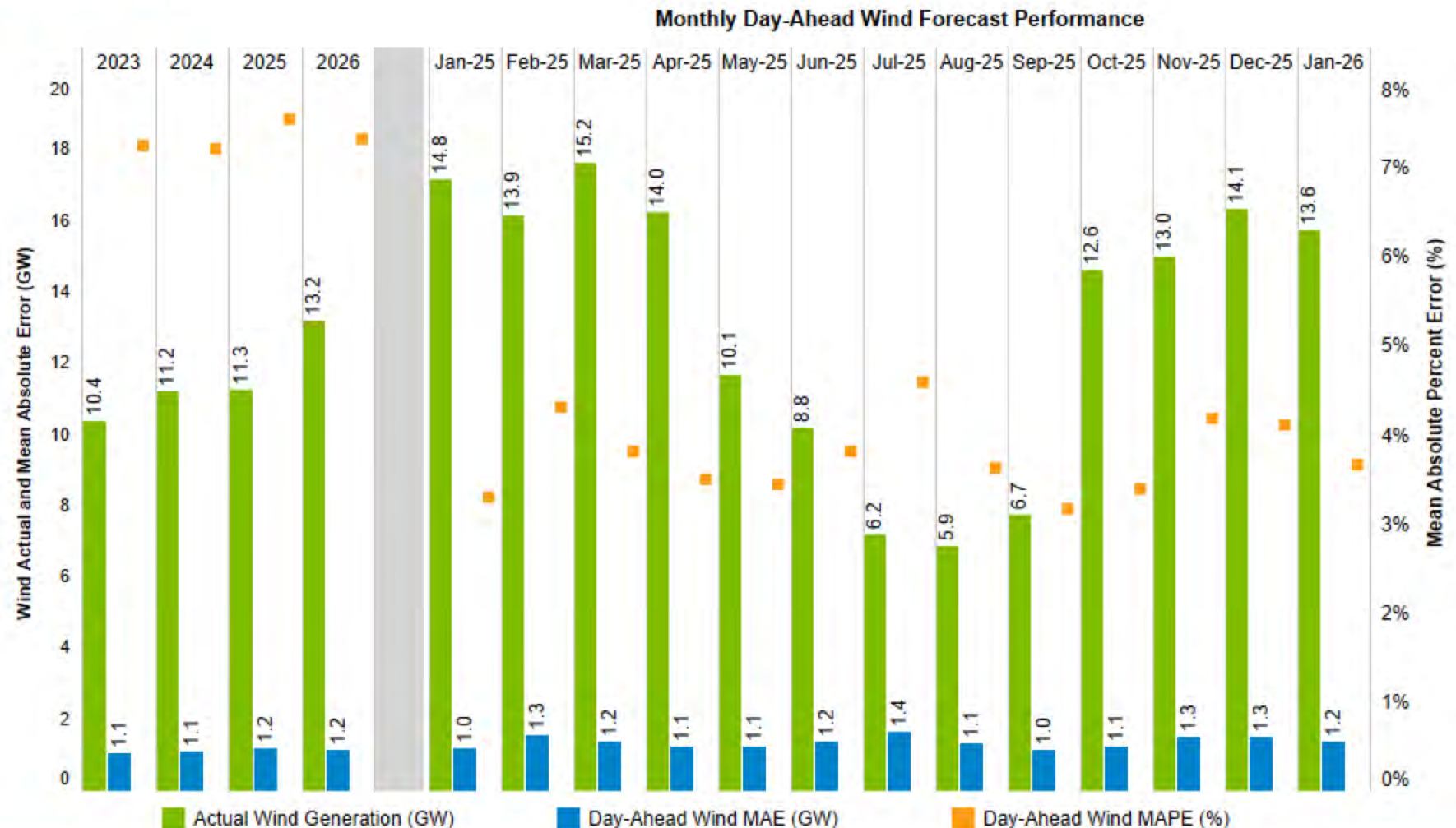
Real-Time Generation Fuel Mix by Region



Based on hourly unit level state estimator data
 Other includes: Battery, Oil, Pet Coke, Waste and Other fuels
 Source: MISO Market and Operations Analytics Department

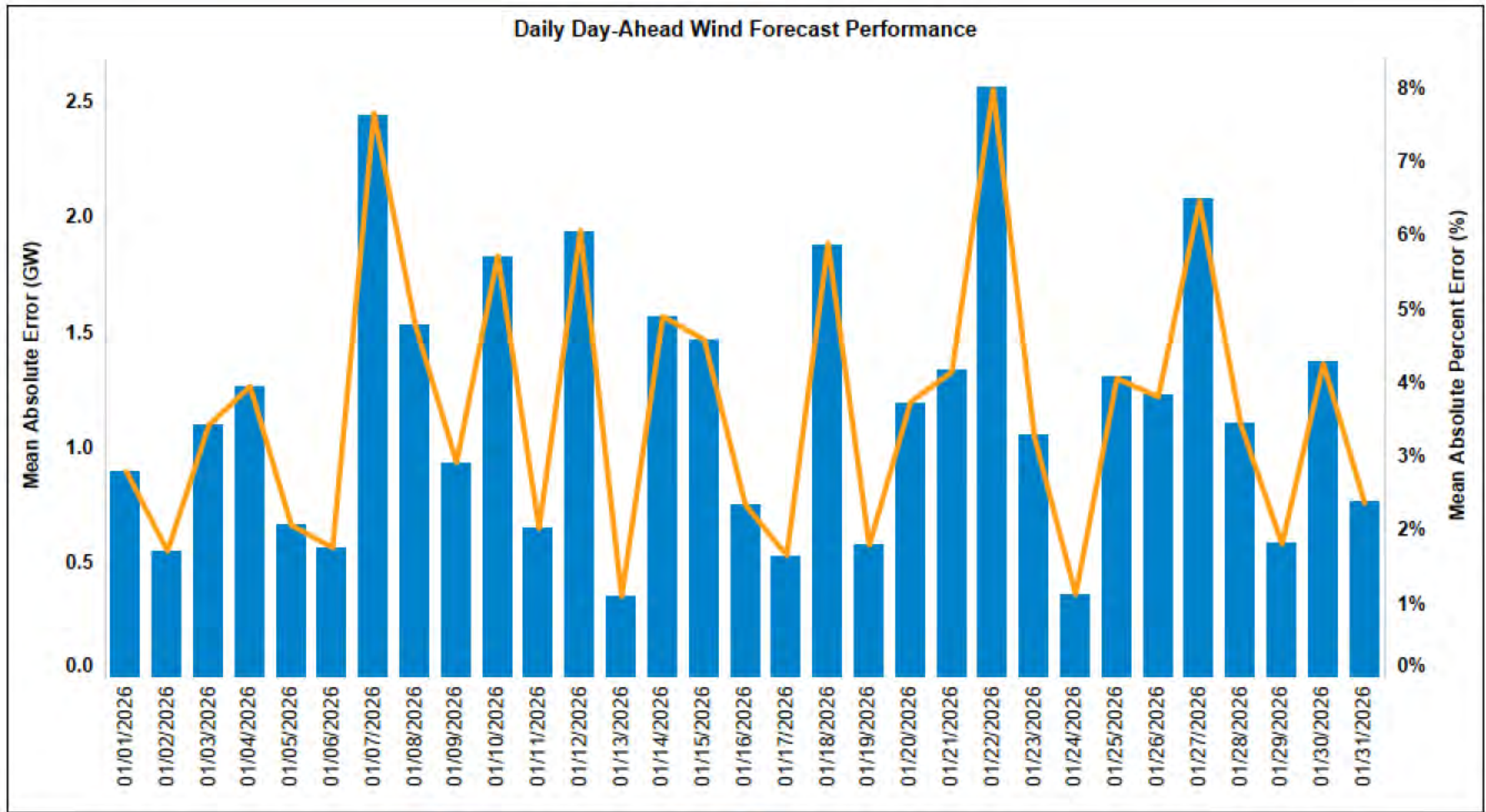


Monthly Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

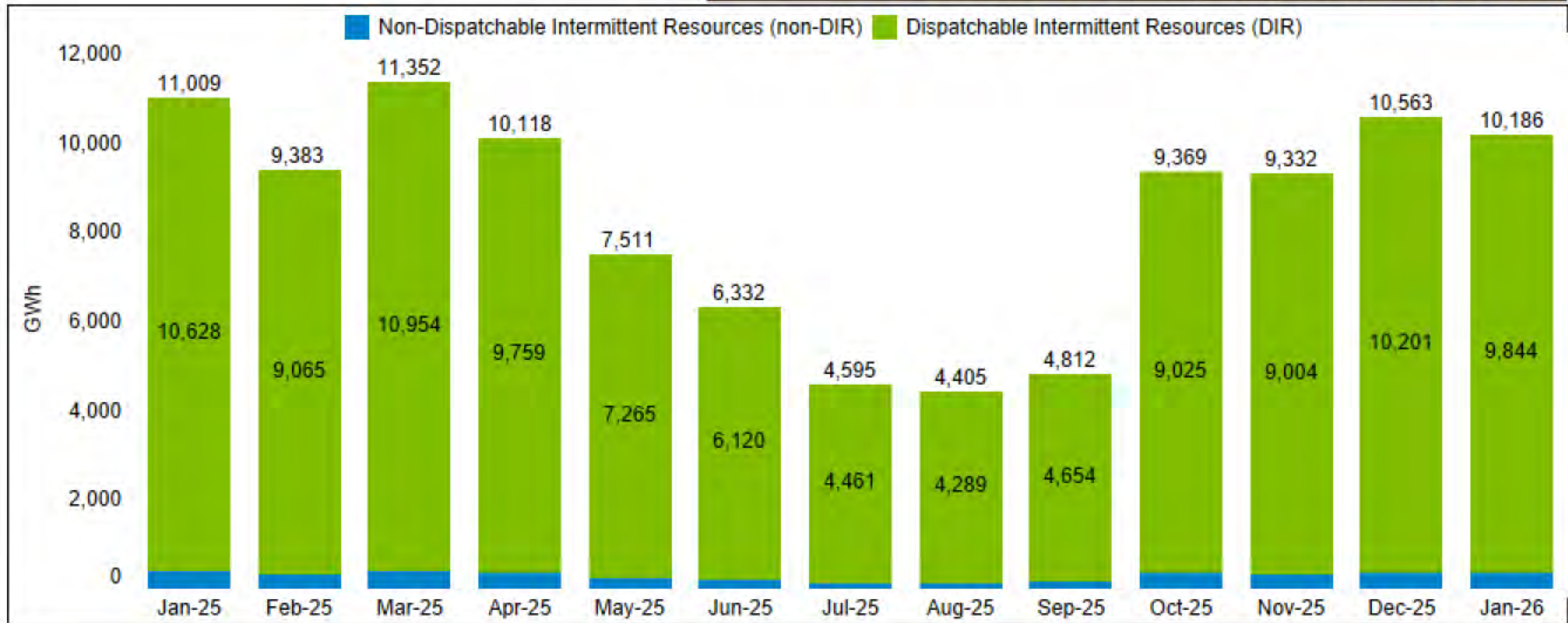
Daily Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



■ Day-Ahead Wind MAE (GW) ■ Day-Ahead Wind MAPE (%)

Monthly Wind Energy Generation

As of 09/05/2025
 Registered Wind Capacity = 32,464 MW; Inservice Wind Capacity = 31,450 MW
 Registered DIR Capacity = 30,936 MW; Inservice DIR Capacity = 29,922 MW



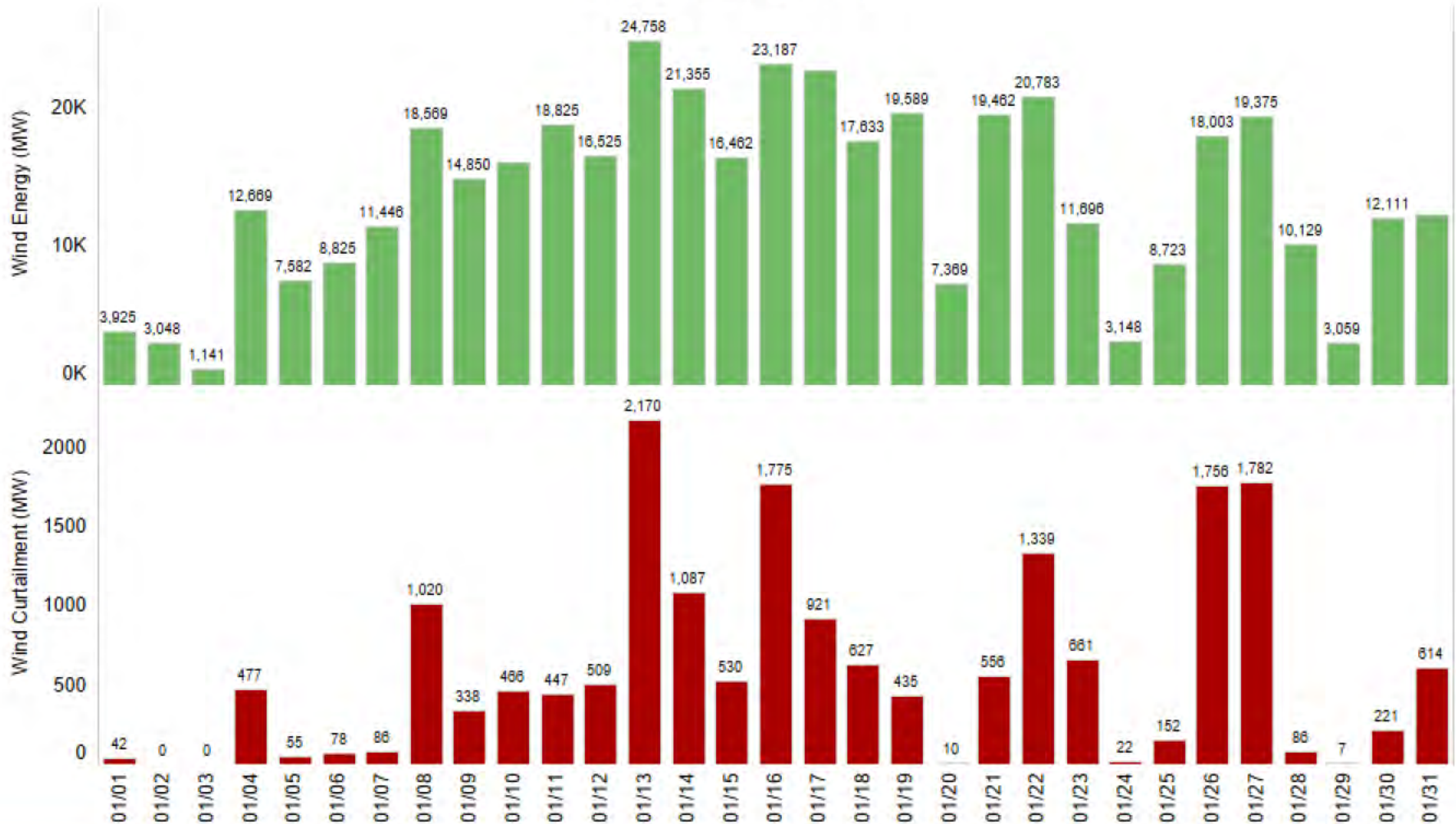
	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Peak Wind Date and Hour Ending	1/28 21	2/28 22	3/23 15	4/28 19	5/16 21	6/21 15	7/5 1	8/8 7	9/5 6	10/21 13	11/28 13	12/28 24	1/13 20
Peak hourly wind output (MW)	25,218	24,646	24,172	23,582	22,803	21,086	15,404	15,824	20,284	22,614	23,562	25,841	26,132
Peak wind output as % of MISO load in that hour	31.2%	34.1%	34.6%	28.6%	28.6%	19.3%	19.2%	19.4%	29.9%	29.8%	29.7%	35.8%	31.9%
Wind Energy as a percent of MISO Energy	18.2%	18.1%	23.2%	21.5%	15.6%	11.3%	7.3%	7.5%	9.2%	18.1%	18.2%	17.8%	16.5%
DIR dispatch below Max as % of avail. DIR	3.3%	2.0%	3.1%	4.3%	3.3%	3.3%	1.3%	2.6%	2.9%	2.9%	3.0%	2.7%	3.0%

*Hourly State Estimator data
 Source: MISO Market and Operations Analytics Department



Daily Average Wind Energy and Curtailment

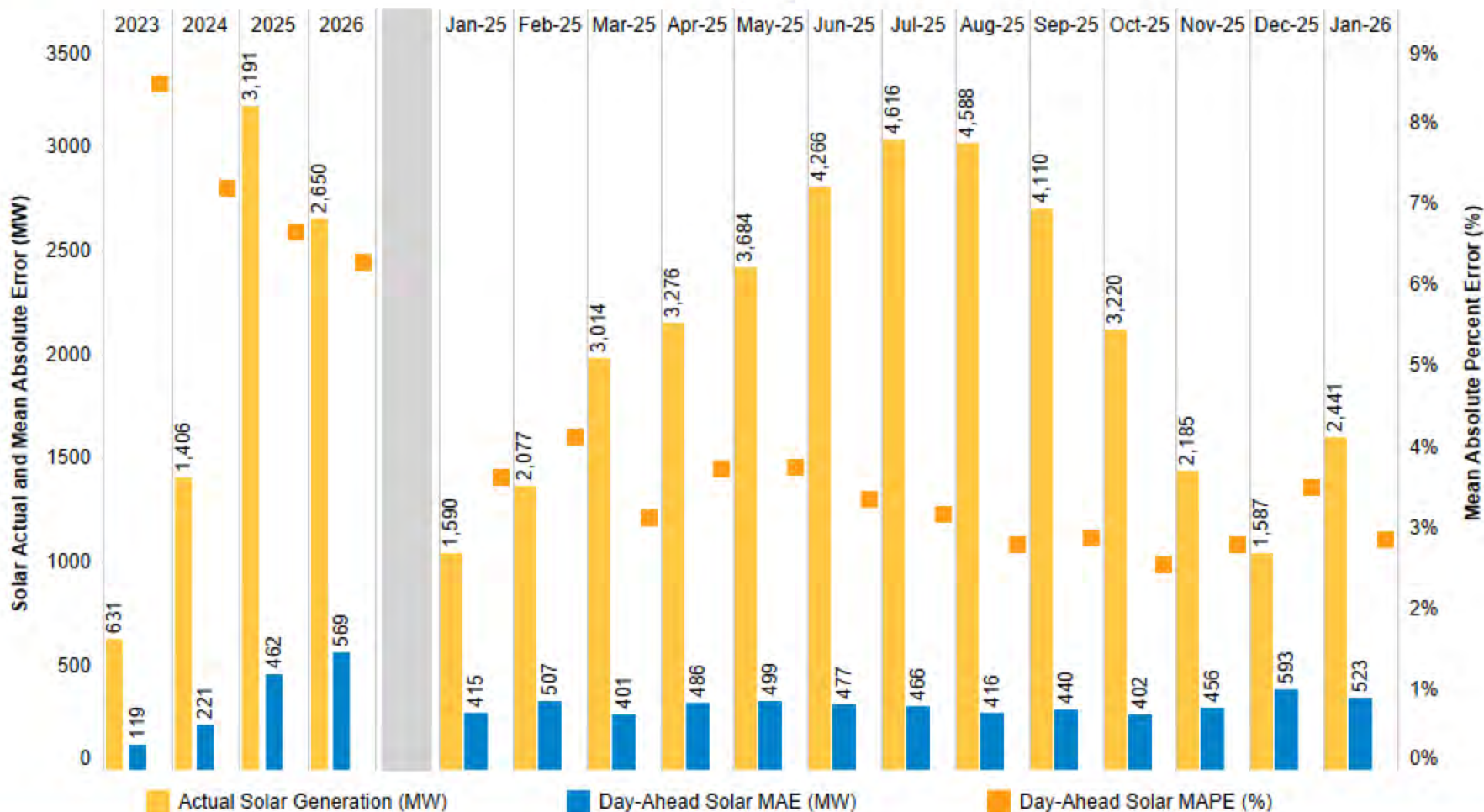
Daily Wind Energy (MW)



Source: MISO Market and Operations Analytics Department

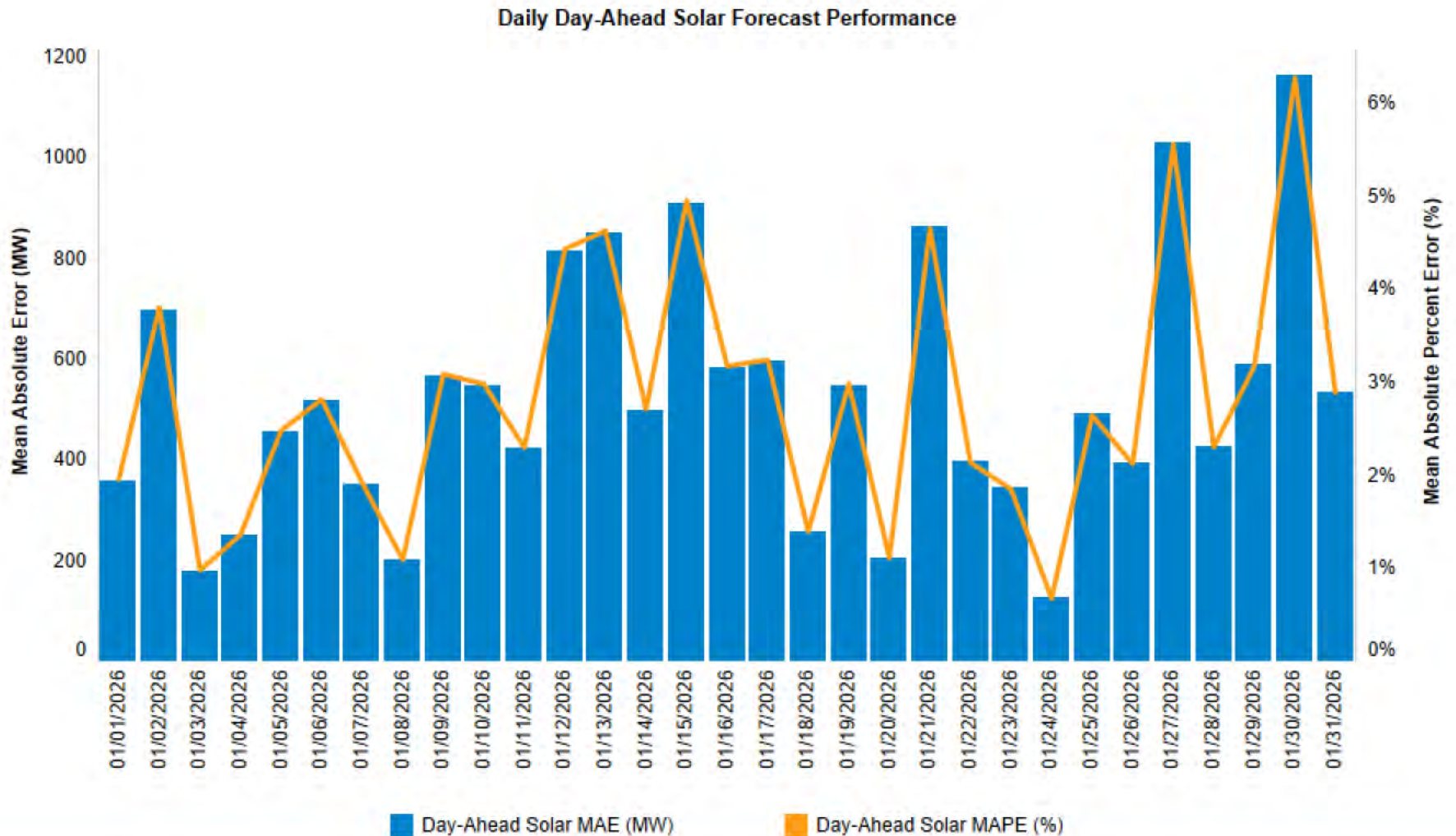
Monthly Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)

Monthly Day-Ahead Solar Forecast Performance



Source: MISO Operations Risk Management

Daily Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)

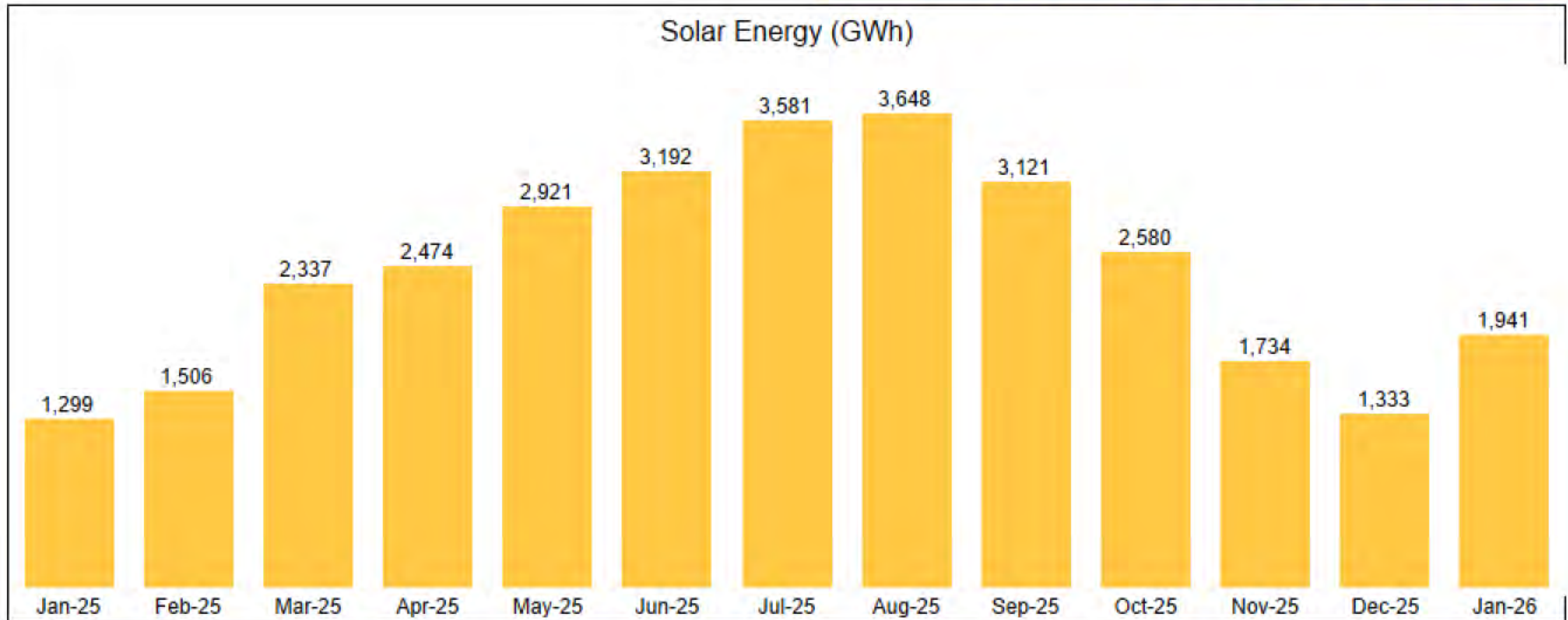


Source: MISO Operations Risk Management

Monthly Solar Energy

As of 09/05/2025
 Registered Solar Capacity = 20,436 MW; Inservice Solar Capacity = 15,223 MW
 Registered DIR Capacity = 20,264 MW; Inservice DIR Capacity = 15,051 MW

Solar Energy (GWh)



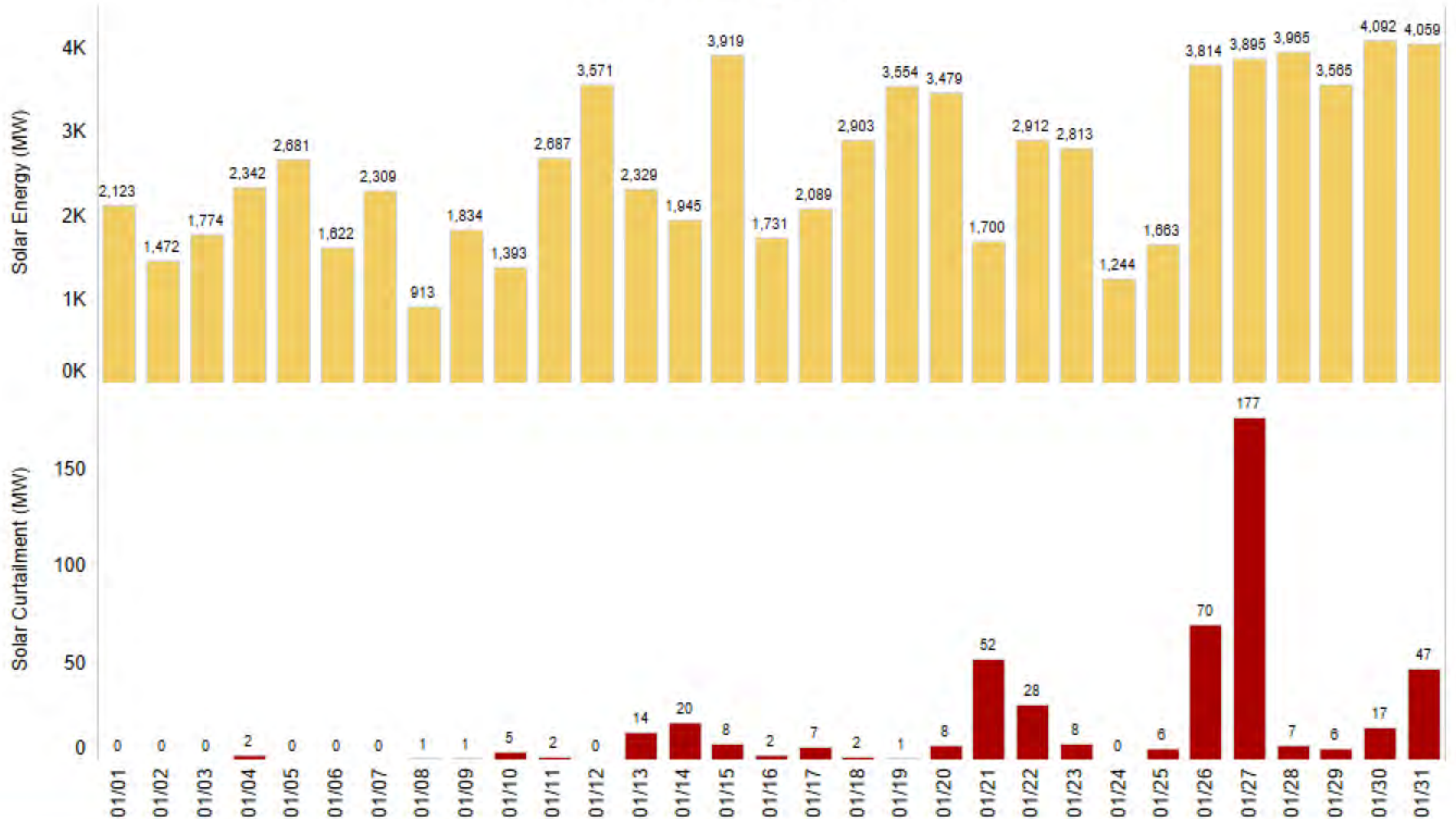
Peak Solar Date and Hour Ending	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
	1/20 12	2/21 12	3/22 15	4/16 14	5/31 13	6/22 11	7/1 12	8/3 11	9/7 11	10/9 15	11/3 16	12/14 15	1/30 13
Peak Hour Solar Output (MW)	8,308	11,360	12,061	12,342	13,366	12,872	13,129	13,821	14,315	13,673	12,914	11,036	13,485
Peak Solar Output as a % of MISO Load in that hour	8.4%	12.4%	18.8%	18.0%	19.2%	12.9%	13.3%	18.6%	22.2%	17.9%	18.3%	12.7%	15.0%
Solar Energy as a % of MISO Energy	2.6%	3.5%	6.0%	5.4%	6.0%	6.0%	5.5%	6.3%	6.2%	5.4%	3.6%	3.5%	4.6%
DIR Dispatch below MAX as a % of avail. DIR	-1.9%	0.1%	1.1%	0.5%	-0.1%	-0.1%	-0.4%	-0.1%	0.8%	1.5%	0.7%	1.0%	0.0%

*Hourly State Estimator data
 Source: MISO Forecast Department



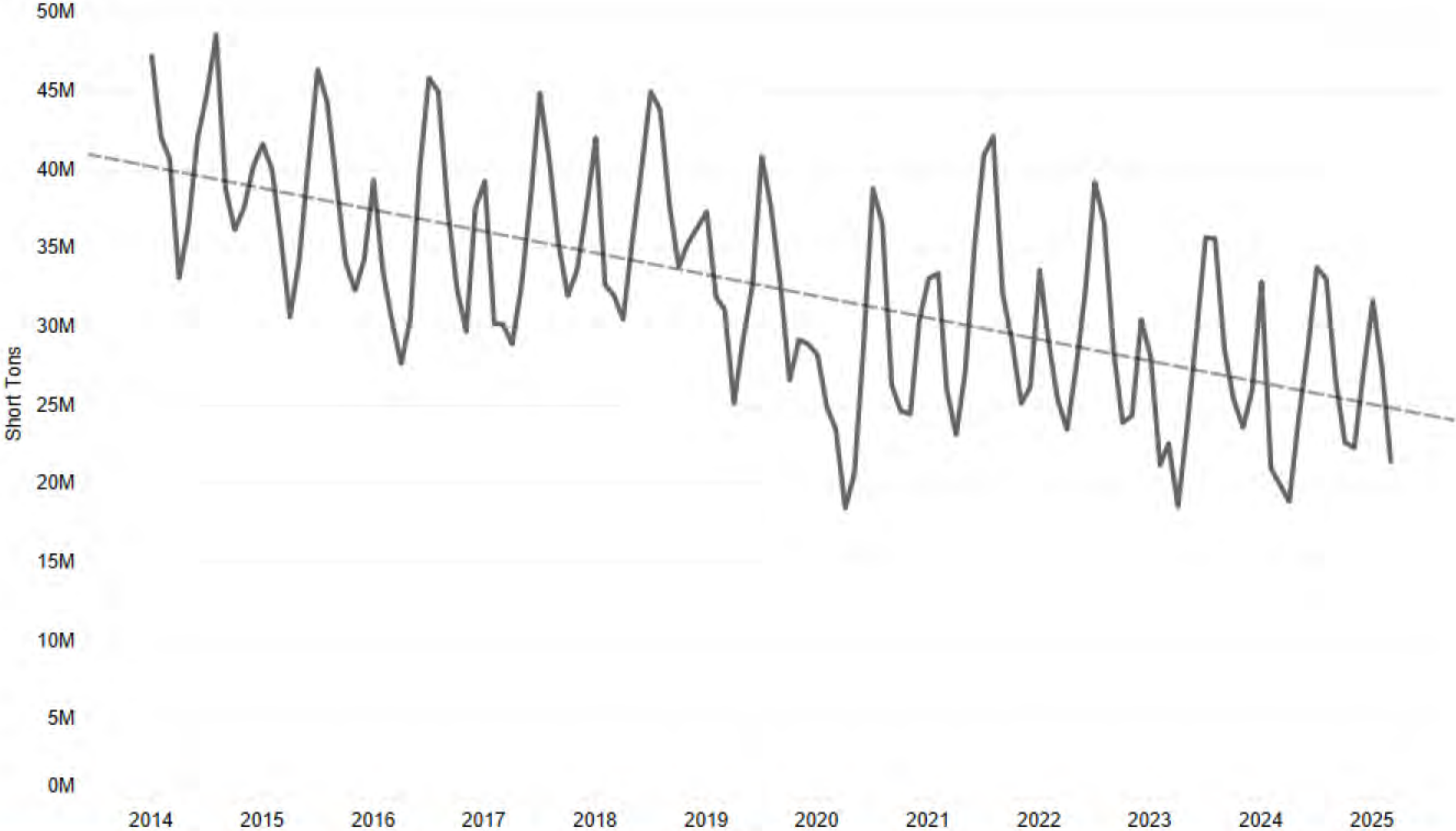
Daily Average Solar Energy and Curtailment

Daily Solar Energy (MW)



Source: MISO Market and Operations Analytics Department

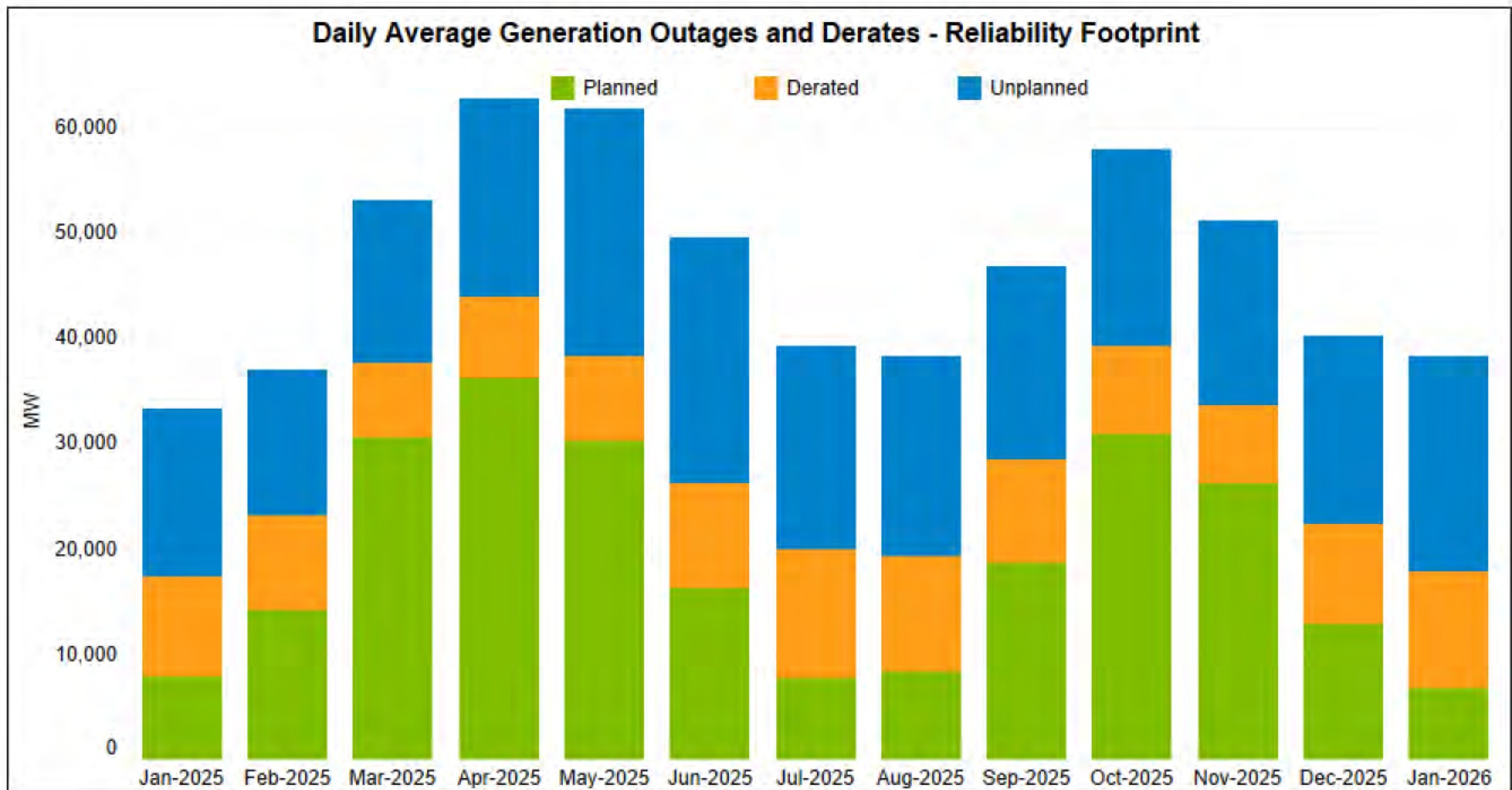
Carbon Emissions



Data Source: EPA emissions through March 2025 and EPA EIA-860 2023
Emissions generated from MISO generators and does not account for volume of imports or exports
One Short Ton = 2000 lbs



Generation Outages and Derates



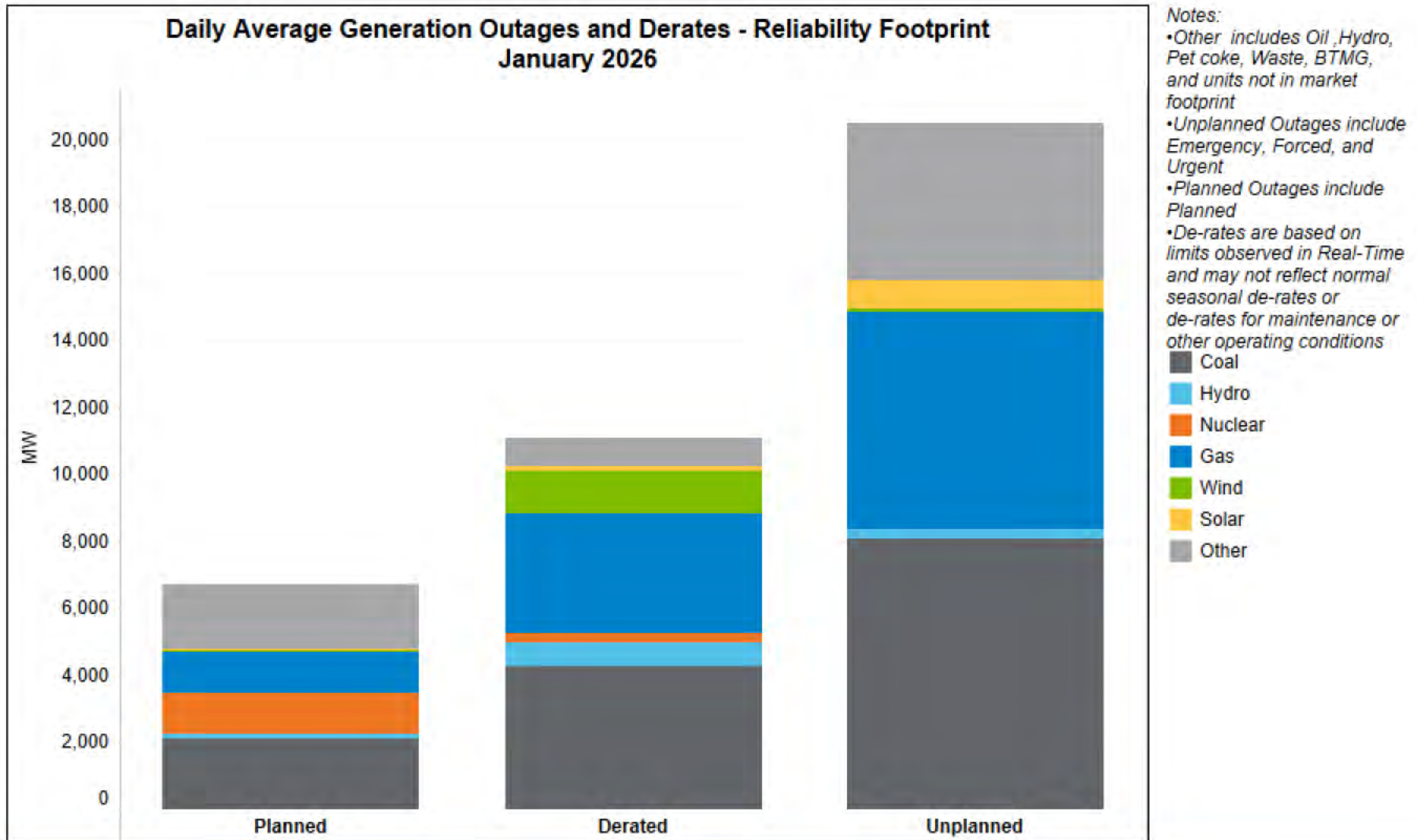
Notes:

- Unplanned Outages include Emergency, Forced, and Urgent
- Planned Outages include Planned
- De-rates are based on limits observed in Real-Time and may not reflect normal seasonal de-rates or de-rates for maintenance or other operating conditions

Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction

Source: MISO CROW Outage Scheduler

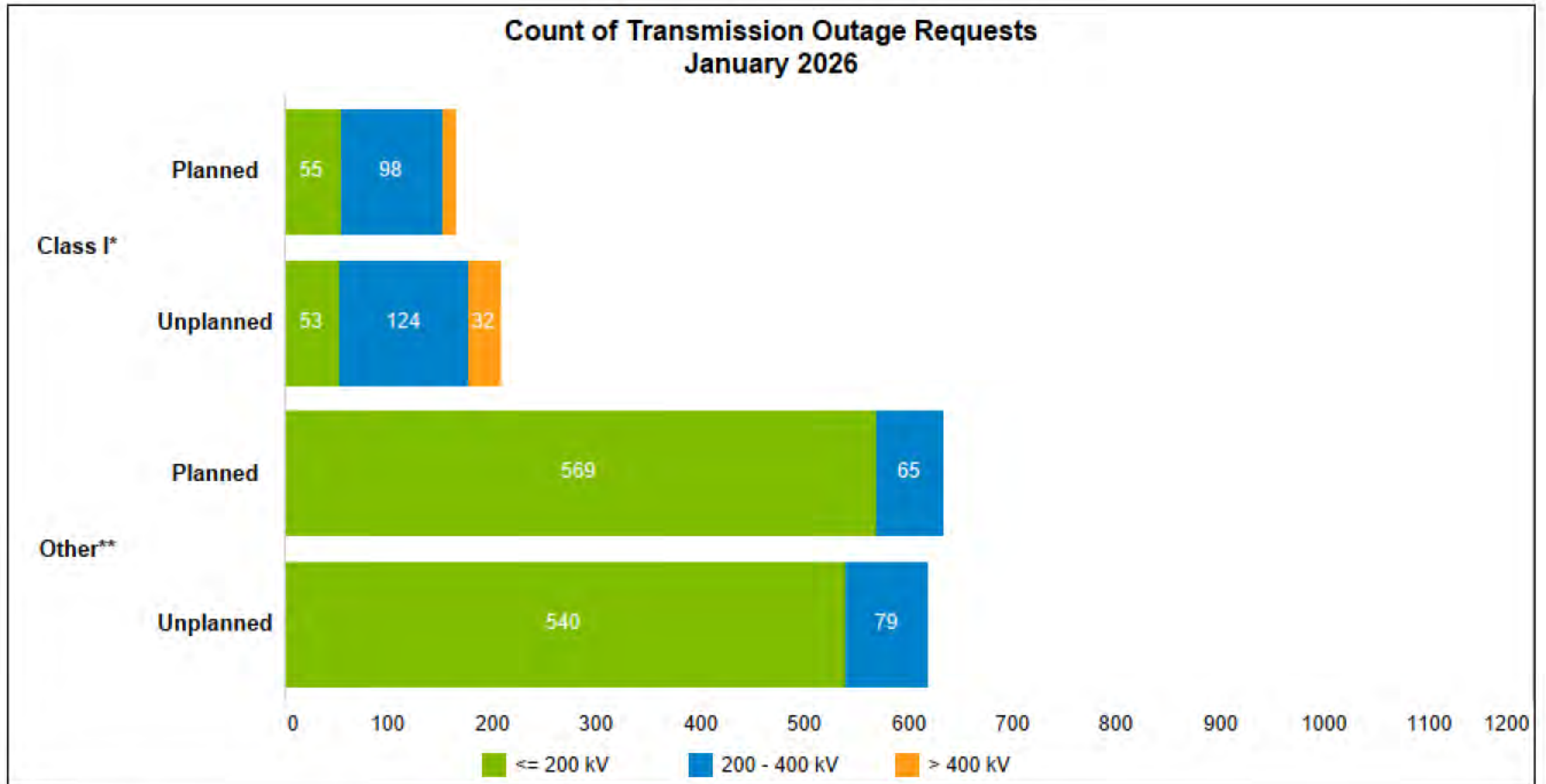
Generation Outages by Fuel



Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction

Source: MISO CROW Outage Scheduler

Transmission Outages



Notes:

- Class 1 is any facility which has a reliability or market impact on transmission system operations
- Other is any facility which does NOT have a reliability or market impact on transmission system operations
- Unplanned Outages include Emergency, Forced, Discretionary and Urgent
- Planned Outages include Planned, Opportunity

Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction

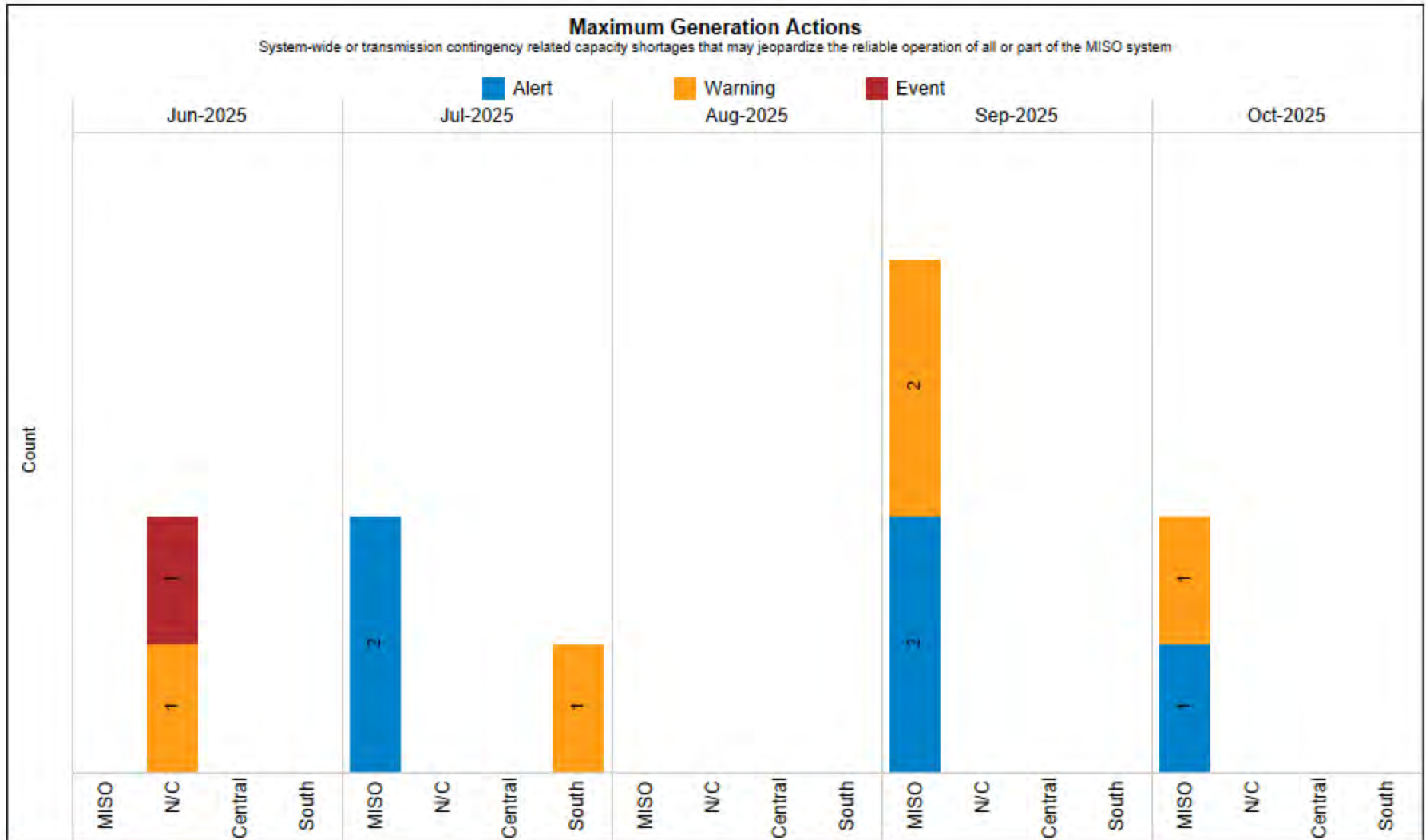
Source: MISO CROW Outage Scheduler

MISO Inadvertent Balance

Month/Year	Net	On-Peak	Off-Peak
6/1/2024	-21,123	-10,382	-10,741
7/1/2024	-33,949	-12,863	-21,086
8/1/2024	-39,602	-15,448	-24,154
9/1/2024	-79,156	-36,769	-42,387
10/1/2024	-37,833	-17,446	-20,387
11/1/2024	-5,440	-2,237	-3,203
12/1/2024	-1,006	624	-1,630
1/1/2025	11,913	7,358	4,555
2/1/2025	23,852	17,127	6,725
3/1/2025	7,992	6,344	1,648
4/1/2025	22,512	14,664	7,848
5/1/2025	17,582	13,320	4,262
6/1/2025	9,239	6,344	2,895
7/1/2025	14,390	7,661	6,729
8/1/2025	-3,938	-5,525	1,587
9/1/2025	5,618	1,997	3,621
10/1/2025	23,968	9,295	14,673
11/1/2025			
12/1/2025			
1/1/2026			
Running Total from 2024	-84,981	-15,936	-69,045

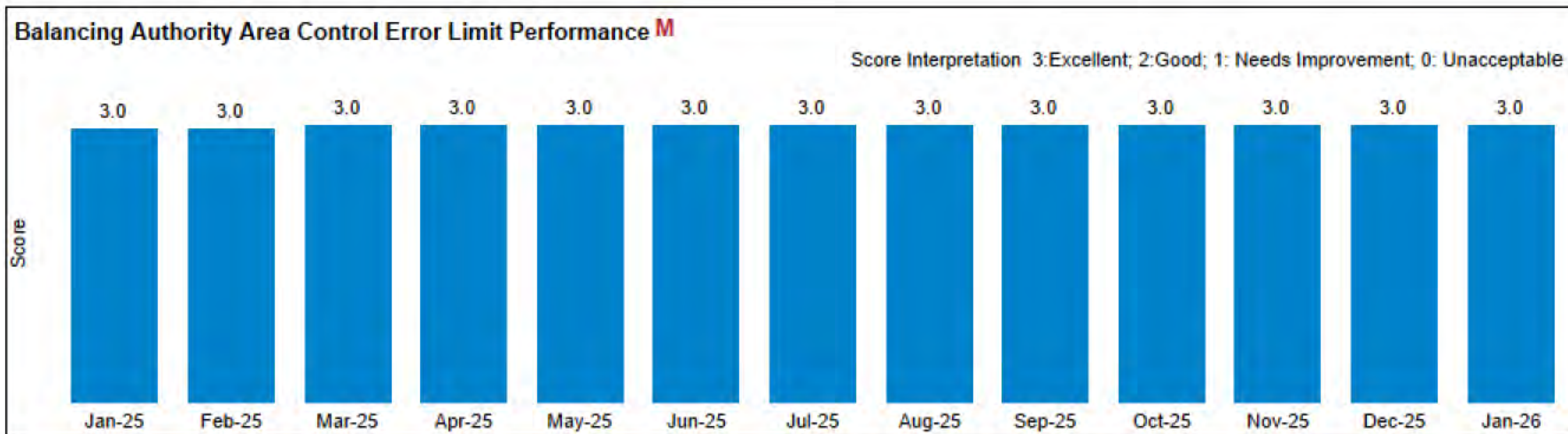
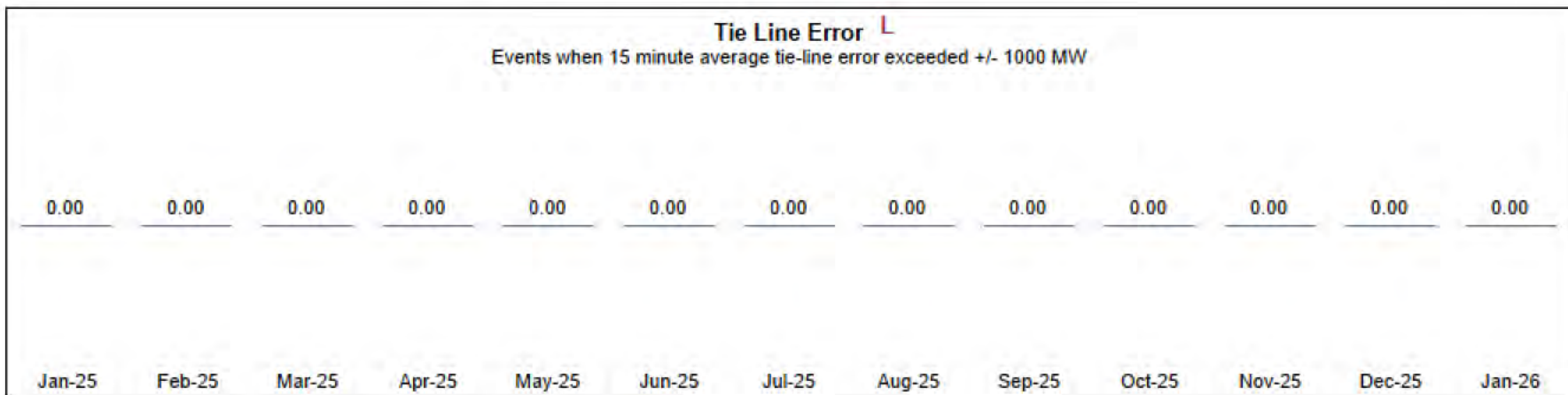
Source: NERC Tool (As of November 30, 2025)

Generation Notifications



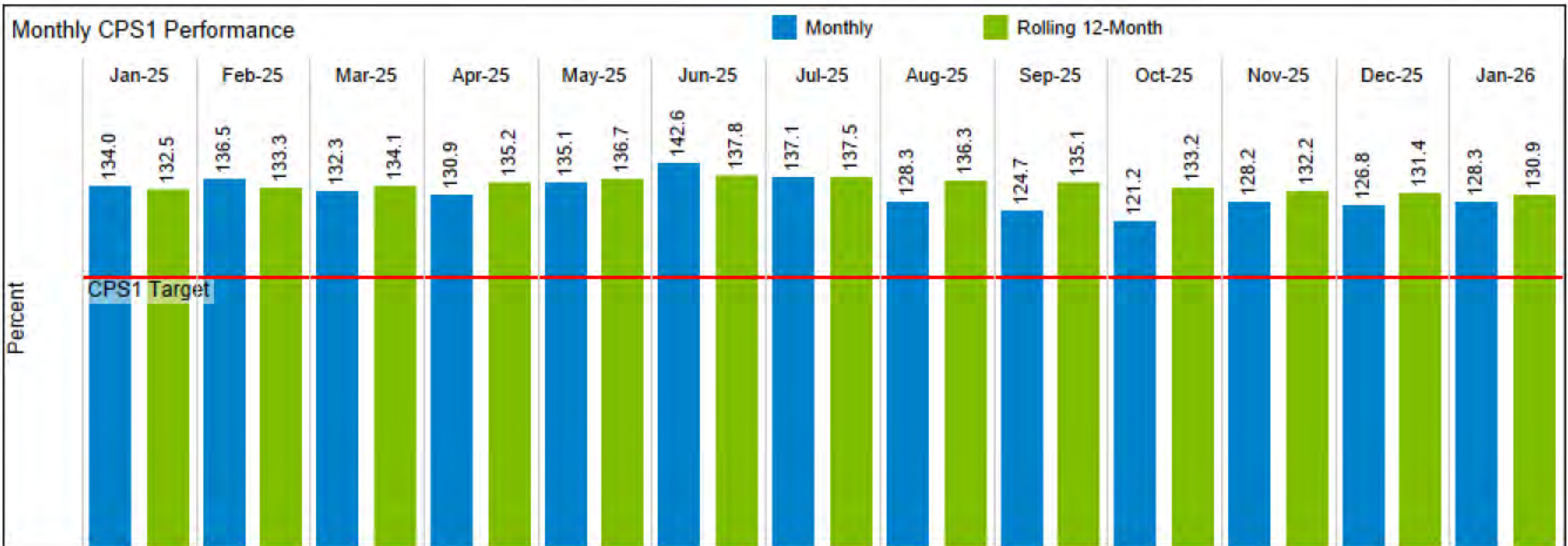
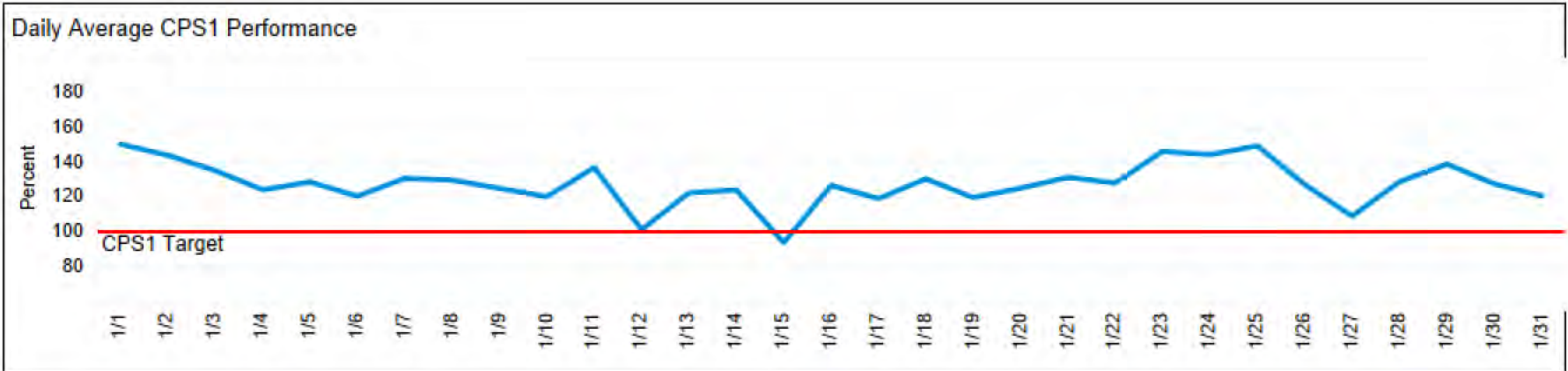
- * Alerts – forecasting specific emergency situations in a future time-frame
- * Warnings – experiencing initial stages of an emergency situation and taking action
- * Events – experiencing an emergency situation and taking action

Tie Line and BAAL Performance



The Balancing Authority Area Control Error Limit (BAAL) measures control performance over the short-term. Exceeding BAAL for a continuous time period greater than 30 minutes constitutes a non-compliant event. The daily MISO BAAL performance rating is the lowest scored incident of the day.

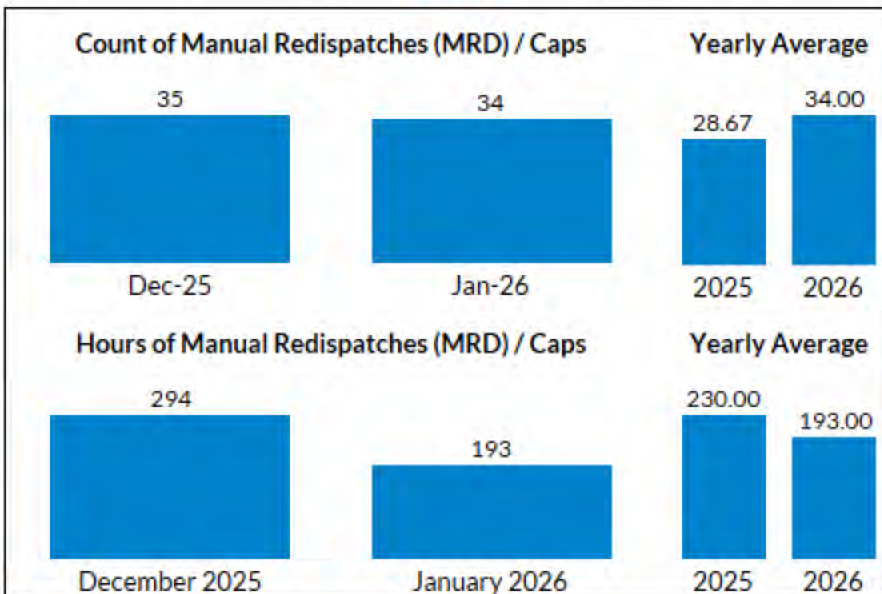
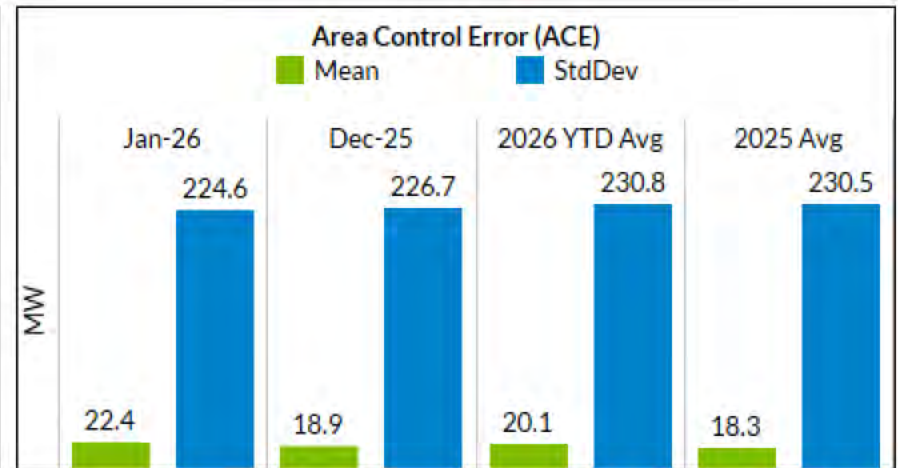
CPS1 Performance



Per NERC Standard BAL-001-0 and MISO OP-044, the MISO will monitor CPS 1 performance and implement actions to ensure the MISO's rolling 12-month CPS 1 performance exceeds 100%
 Source: MISO Real-Time Operations Department



Reliability – Other Metrics



MISO deployed Contingency Reserves **

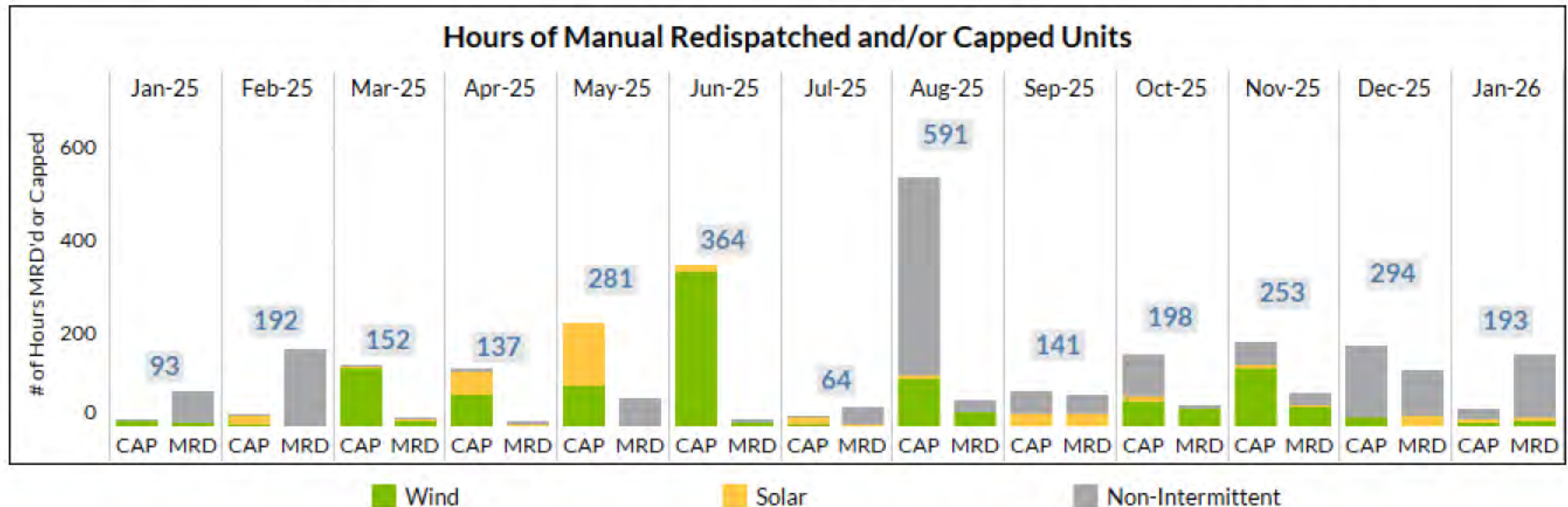
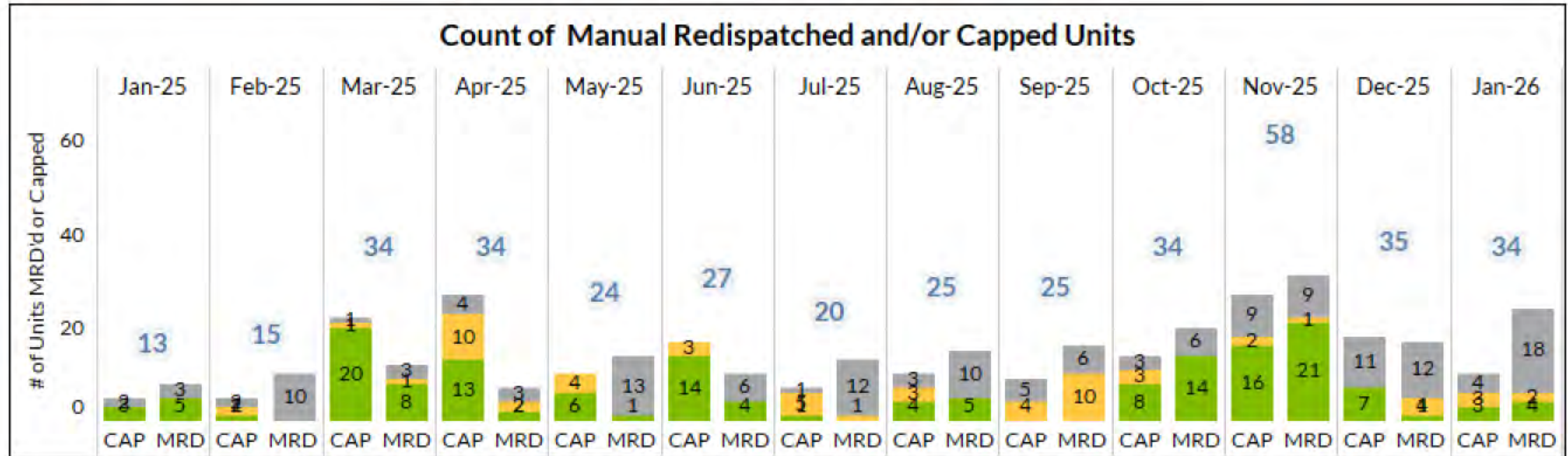
Date	HE	Deployment Type	MW
1/9/2026	11	ONLINE	805.3

Source: MISO Real-Time Operations Department

**Historical Contingency Deployment data located in Related Documents at <https://cdn.misoenergy.org/202001-202103%20Additional%20Inform>

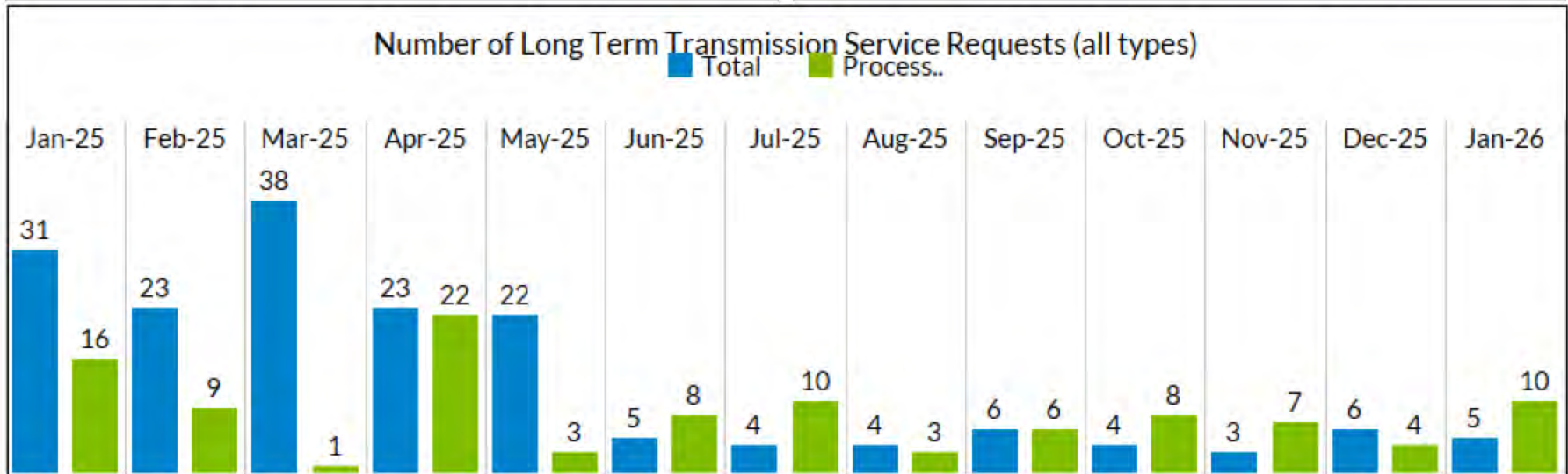
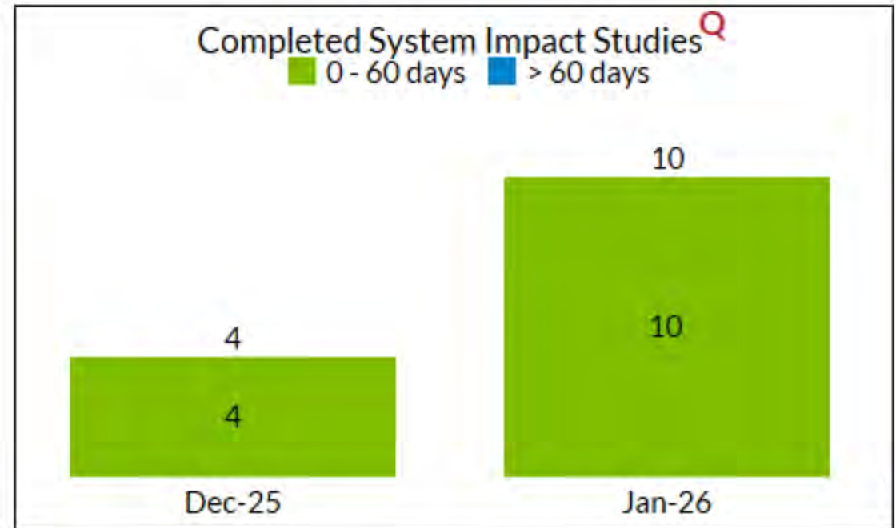
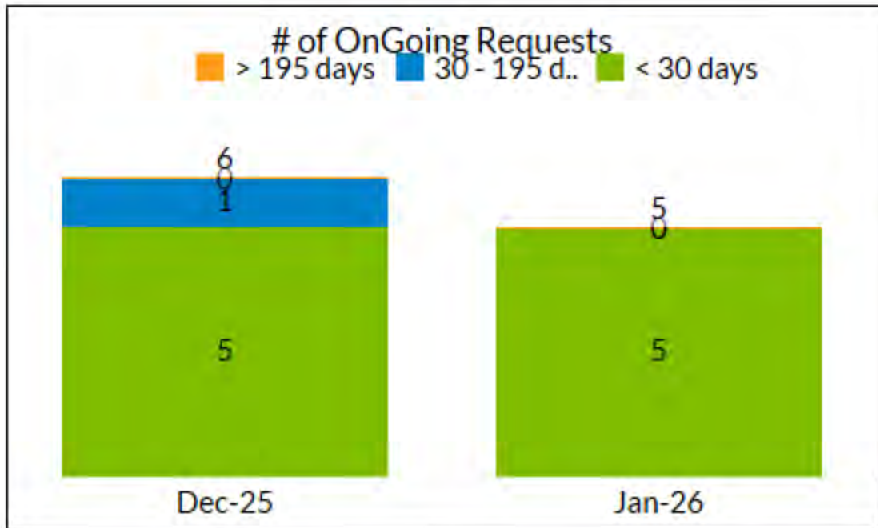


Operator Actions - Manual Redispatch and Caps



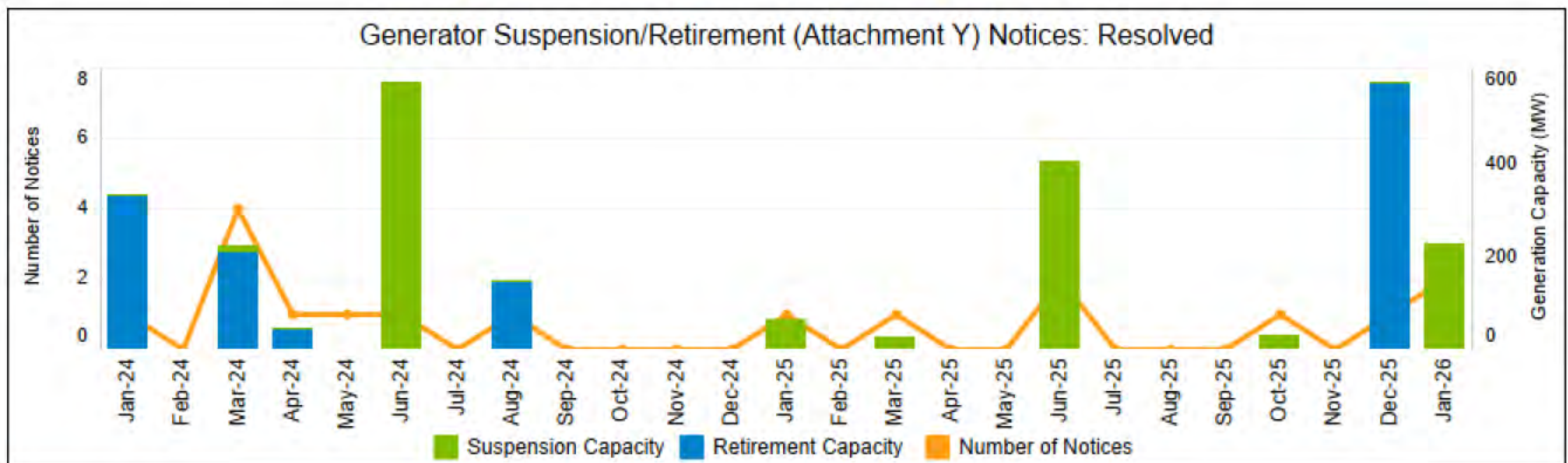
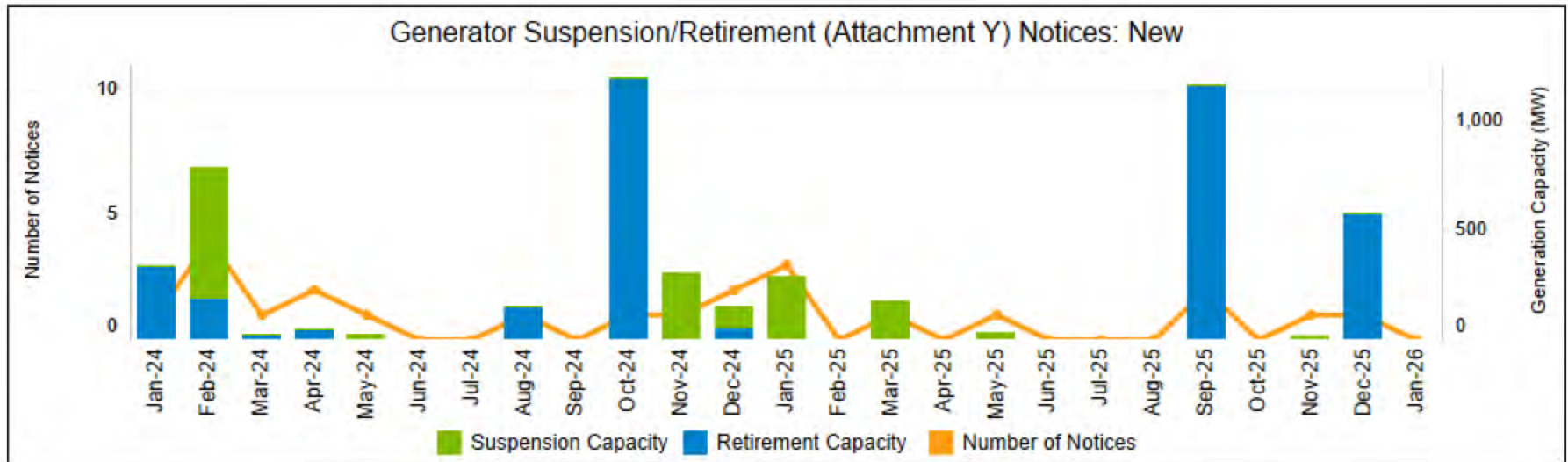
Source: MISO Market and Operations Analytics Department

Transmission Service Request

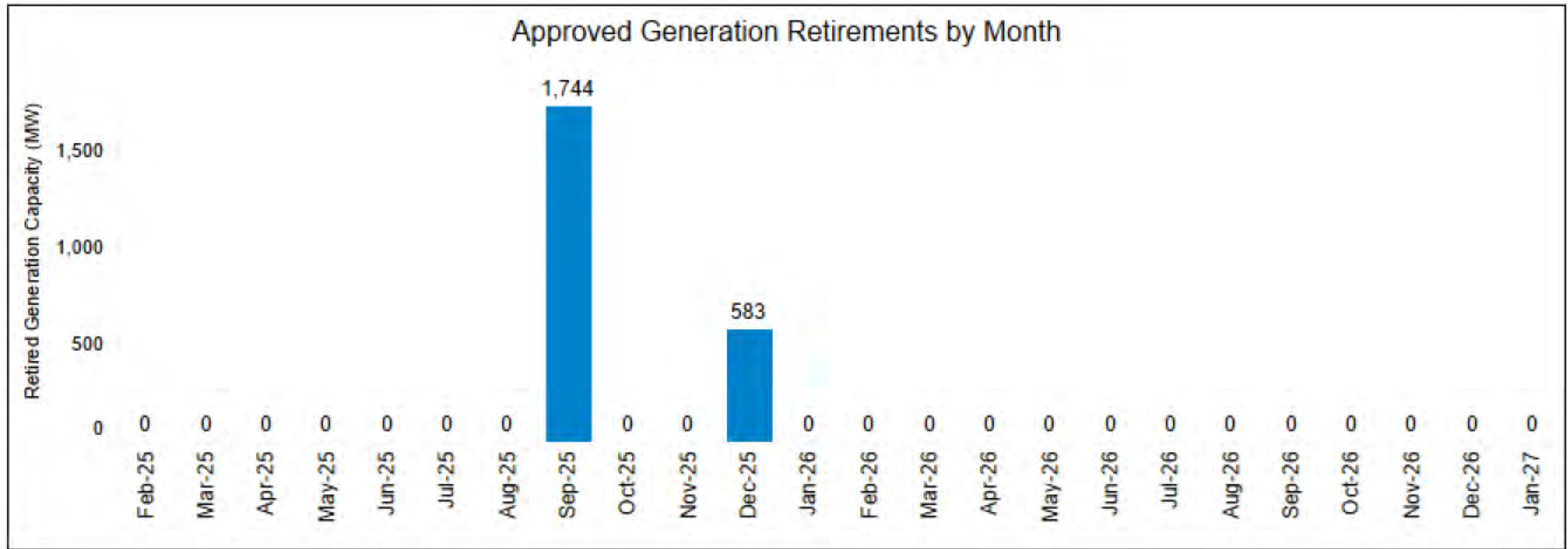


Source: MISO Resource Utilization

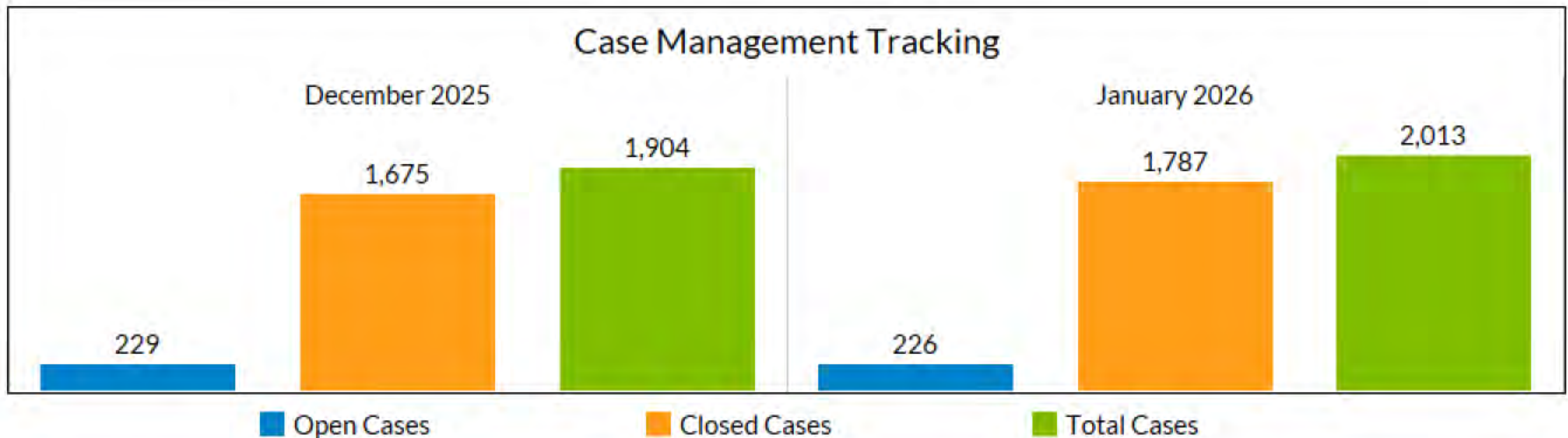
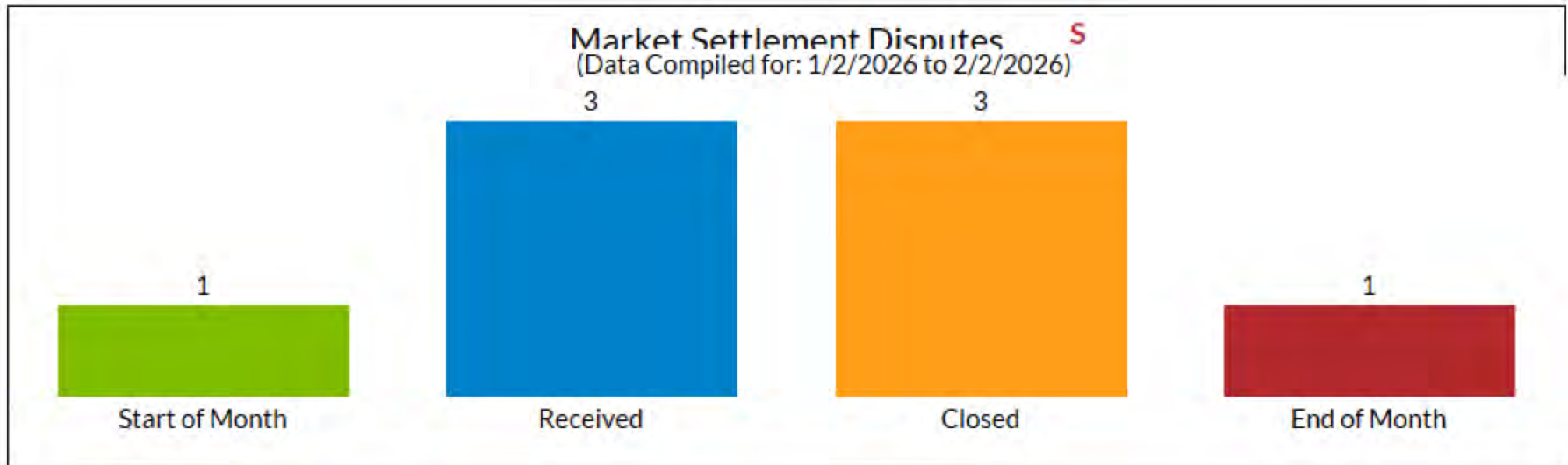
Generator Suspension/Retirement - New and Resolved



Generator Suspension/Retirement - Overall



Settlements/Client Services and Readiness



Source: MISO Settlements and Client Services and Readiness Departments
 Settlement values may change due to resettlement.

The Technology Committee reviews the performance requirements for system availability, and the results are evaluated in the Human Resources Committee

2025 Metrics

Short-Term Incentive Metrics	JAN25	FEB25	MAR25	APR25	MAY25	JUNE25	JULY25	AUG25	SEPT25	OCT25	NOV25	DEC25	YTD	Threshold Target Excellent
Critical Systems Availability (Downtime in Hours)	0	0	1.5	0	0	0.1	0	0	0	0	0	0	1.6	4 Hours 3 Hours 2 Hours
Number of Critical System Incidents Exceeding 30 Minutes	0	0	1	0	0	0	0	0	0	0	0	0	1	2 1 0

Other Availability Metrics	JAN25	FEB25	MAR25	APR25	MAY25	JUNE25	JULY25	AUG25	SEPT25	OCT25	NOV25	DEC25	Monthly Target
ICCP (Availability %)	100	100	100	100	100	100	100	100	100	100	100	100	99.5
Customer Facing Applications - Portals (Availability Index)	10	10	10	9	10	10	9	10	10	10	10	10	10 of 10
Markets (Availability Index)	4	4	4	4	4	4	4	4	4	4	4	4	4 of 4
Reliability Targets (Availability Index)	3	3	3	3	3	3	3	3	3	3	3	3	3 of 3

*Trend lines represent quarter-over-quarter performance

**ICCP = Inter-Control Center Communications Protocol

2026 Dashboard Metric Criteria (1 of 2)

*New or revised 2026 Metric

Operational Excellence

Metric	Chart	Expected	Monitor	Review	Metric	Chart	Expected	Monitor	Review
Percentage Price Deviation*	A	Absolute DA-RT price difference divided by DA LMP <= 31.8%	Absolute DA-RT price difference divided by DA LMP is >31.8% but <= 37.0%	Absolute DA-RT price difference divided by DA LMP >37.0%	Unit Commitment Efficiency*	H	>=92%		<92%
Monthly Average Gross Virtual Profitability*	B	Within the standard deviation bands (threshold \$0.61/MWh)	Outside the standard deviation bands		Real-Time Obligation fulfilled by Day-Ahead Supply at the Peak Hour	I	>=95%	>=93% but <95%	<93%
FTR Funding	C	Monthly FTR Allocation % is >=92% and YTD FTR Allocation % is >=96%	Not in good status AND Monthly FTR Allocation % is >=87% AND Rolling 12-month FTR Allocation % is >=93%	Not in Good AND not in Monitor status	Day Ahead Wind Generation Forecast Error	K	# of days that the hourly average forecast error exceeds 10% <= 6	# of days that the forecast error exceeds 10% > 6 or Forecast error exceeds 15% in = 3 days	# of days that the forecast error exceeds 10% > 8 or Forecast error exceeds 15% in > 3 days or Forecast error resulted in declaring 1 Real Time Event
Market Efficiency Metric*	D	>= 90%		< 90%	Day Ahead Solar Generation Forecast Error	T	# of days that the hourly average forecast error exceeds 10% <= 6	# of days that the forecast error exceeds 10% > 6 or Forecast error exceeds 15% in = 3 days	# of days that the forecast error exceeds 10% > 8 or Forecast error exceeds 15% in > 3 days or Forecast error resulted in declaring 1 Real Time Event
RSG per MWh to Energy Price*	E	<= 0.39%	> 0.39% and <= 0.48%	> 0.48%	Tie Line Error	L	<= 1	> 1 but <= 3	> 3
Day Ahead Mid-Term Load Forecast**	F	# of days that forecast error exceeds 3% <= 6 AND # days that forecast error exceeds 4% <= 4	# of days that forecast error exceeds 3% > 6 OR # days that forecast error exceeds 4% > 4 OR forecast error exceeds 6% on >= 1 day	# of days that forecast error exceeds 3% > 10 OR # days that forecast error exceeds 4% > 8 OR forecast error exceeds 7% on >= 1 day OR Forecast error resulted in declaring 1 Real Time Event	Control Performance - BAAL	M	Monthly performance score >= 2	Monthly performance score < 2 but >= 1	Monthly performance score < 1

FTR YTD metric is applied beginning April

** Forecast errors observed in March, April, October and November will be measured by 1% lower thresholds



2026 Dashboard Metric Criteria (2 of 2)

*New or revised 2026 Metric

Operational Excellence

Metric	Chart	Expected	Monitor	Review	Metric	Chart	Expected	Monitor	Review
Short-Term Load Forecast	G	Forecast error exceeding the 95% percentile of forecast error for the past year <= 2 days	3 days <= Forecast error exceeding the 95% percentile of forecast error for the past year <= 5 days	Forecast error exceeding the 95% percentile of forecast error for the past year > 5 days	Control Performance - CPS1 and CPS1 12-month rolling	N	>= 100%		< 100%
					ARS Deployment	P	DCS monthly average % recovery (APR) = 100%	Analysis of event not yet complete	DCS monthly average % recovery (APR) confirmed < 100%
Customer Service									
System Impact Study Performance	Q	Studies completed in less than 60 days >= 85%	Studies completed in less than 60 days < 85% but >= 75%	Studies completed in less than 60 days < 75%	Settlement Disputes	S	Increase of up to 20 disputes	Increase of between 20 and 50 disputes	Increase of more than 50 disputes

FTR YTD metric is applied beginning April

** Forecast errors observed in March, April, October and November will be measured by 1% lower thresholds ..



BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c))
Emergency Order: Midcontinent)
Independent System Operator and)
Northern Indiana Public Service)
Company LLC)

Order No. 202-25-19

Federal Power Act Section 202(c))
Emergency Order: Midcontinent)
Independent System Operator and)
CenterPoint Energy Indiana South)

Order No. 202-25-20

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 184A
Schahfer Landfill 2025 Groundwater Monitoring Report
Part 1

From: [Ford, Hannah R](#)
To: [IDEM OLO Solid Waste Permits Submittals](#)
Subject: FW: NIPSCO Schahfer Station RWS I Landfill (FP 37-01): Semi-Annual GW Report, SSI Notice and Data File - September 2025 Sampling Event
Date: Monday, November 10, 2025 1:50:01 PM
Attachments: [transmittal letter IDEM September 2025.pdf](#)

Please upload the transmittal letter to VFC dated 11/10/25. The 3 datafiles were sent to geologydata already. Thanks!

From: Bethany Flaherty <bflaherty@appliedgeology.net>
Sent: Monday, November 10, 2025 1:06 PM
To: Ford, Hannah R <HFord@idem.IN.gov>
Cc: Loewe \ Jeff <JLoewe@nisource.com>; 'Robert King' <rking@appliedgeology.net>; HARMLESS, MARTY <MHARMLES@idem.IN.gov>; Kalembe \ Scott <skalembe@nisource.com>; Travis Sitko <tsitko@appliedgeology.net>
Subject: NIPSCO Schahfer Station RWS I Landfill (FP 37-01): Semi-Annual GW Report, SSI Notice and Data File - September 2025 Sampling Event

This is the first time you received an email from this sender (bflaherty@appliedgeology.net). Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon, Ms. Ford,

On behalf of NIPSCO, AGES is submitting the Semi-Annual Groundwater Report (September 2025 Sampling Event) and Notification of Phase I Constituent Statistically Significant Increases (SSIs) and Phase II Constituent Statistically Significant Levels (SSLs) for the Schahfer Generating Station RWS I Landfill (FP 37-01). These documents are being submitted to meet *Requirements E22* and *E19* of the landfill operating permit (effective May 27, 2020). Additionally, the September 2025 electronic data file is included in this submittal per *Requirements E23*. Per communication with the IDEM Geology Section, AGES will submit this file directly to geologydata@idem.in.gov (and cc Mr. Harmless).

The transmittal letter is attached, and the three (3) files (which can be found using the link below) comprise this electronic submittal.

<https://ages.egnyte.com/fl/p36jWj8q3vqC>

Password: H4bhR68fVkp1

Thank you,
Bethany

Bethany Flaherty
AGES, Inc.

www.appliedgeology.net

cell: 614-432-0377



AGES
Applied Geology And Environmental Science, Inc.

2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
www.appliedgeology.net
P 412. 264. 6453 F 412. 264. 6567

November 10, 2025

Ms. Hannah Ford
Office of Land Quality
Indiana Department of Environmental Management
Solid Waste Permits Section
100 North Senate Avenue
MC 65-45 IGCN 1101
Indianapolis, Indiana 46204

**Subject: Submittal of Semi-Annual Groundwater Monitoring Report
September 2025 Monitoring Event, Notification of Phase I Constituents
Statistically Significant Increases (SSIs) and Phase II Constituents
Statistically Significant Levels (SSLs), and Electronic Data File
Solid Waste Facility Permit FP 37-01
RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Dear Ms. Ford:

On behalf of Northern Indiana Public Service Company, LLC (NIPSCO), enclosed with this letter you will find an electronic submittal of the above-referenced report and Notification of SSIs (Phase I constituents) and SSLs (Phase II constituents). Also included in this email is an Excel file of the laboratory and field results from this semi-annual sampling event in the IDEM requested format for the database. Per conversations with the IDEM Geology Section, this will be submitted directly to olqdata@idem.in.gov.

If you have any questions regarding this report, please feel free to call us at 412-264-6453.

Sincerely,

APPLIED GEOLOGY AND ENVIRONMENTAL SCIENCE, INC.

Bethany Flaherty
Senior Program Manager I

Robert W. King, L.P.G. #1237
Chief Hydrogeologist

Enclosures (three (3) email attachments)

Cc: J. Loewe, NiSource



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November 10, 2025

Ms. Hannah Ford
Office of Land Quality
Indiana Department of Environmental Management
Solid Waste Permits Section
100 North Senate Avenue
MC 65-45 IGCN 1101
Indianapolis, Indiana 46204

Subject: Notification of Phase I Constituents Statistically Significant Increases (SSIs) and Phase II Constituents Statistically Significant Levels (SSLs) September 2025 Monitoring Event Restricted Waste Site Type I Landfill – RM Schahfer Generating Station Jasper County, Indiana Solid Waste Land Disposal Facility, FP 37-01

Dear Ms. Ford:

On behalf of Northern Indiana Public Service Company, LLC (NIPSCO), Applied Geology and Environmental Science, Inc. (AGES) is providing to the Indiana Department of Environmental Management (IDEM) this official notification of statistically significant increases (SSIs) identified for the Phase I and II Groundwater Monitoring Programs at the Restricted Waste Site Type I (RWS I) Landfill at the RM Schahfer Generating Station. SSIs were identified for two (2) or more Phase I constituents in several downgradient or downstream sampling locations and for Phase II constituents at downgradient sampling locations.

SEMI-ANNUAL GROUNDWATER MONITORING REPORT INFORMATION

On November 10, 2025, NIPSCO and AGES submitted the Semi-Annual Groundwater Monitoring Report for the September 2025 monitoring event for the on-going groundwater monitoring program at the RM Schahfer Generating Station, located in Jasper County, Indiana, to the IDEM.

SSI NOTIFICATION

The purpose of this letter is to formally notify the IDEM that SSIs and SSLs were identified for the Phase I and II Groundwater Monitoring Programs, respectively, at the site.

Phase I Groundwater Monitoring Program Results

For the Phase I monitoring, SSIs were identified for two (2) or more Phase I constituents at the following downgradient sampling locations:

Shallow Wells

- MW-2S (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and Total Dissolved Solids [TDS]);
- MW-3Sa (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and TDS);
- MW-4S (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and TDS);
- MW-5S (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and TDS);
- MW-6S (Field pH and Sulfate);
- MW-7S (Fluoride, Sulfate, and TDS); and
- MW-14S (Field pH and Fluoride).

Deep Wells

- MW-2D (Field Specific Conductance, Chloride, Fluoride, Sulfate, and TDS);
- MW-3D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-4D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-5D (Field Specific Conductance, Total Boron, Total Calcium, Chloride, Sulfate, and TDS);
- MW-6D (Field pH and Sulfate);
- MW-7D (Field pH, Chloride, and Sulfate);
- MW-9D (Chloride and Fluoride);
- MW-11D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-12D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-13D (Field pH, Field Specific Conductance, Chloride, Sulfate, and TDS); and
- MW-14D (Field pH, Chloride, and Sulfate).

Surface Water Location

- SW-4 (Field Specific Conductance, Total Boron, Chloride, Fluoride, Sulfate, and TDS).

Phase II Groundwater Monitoring Program Results

For the Phase II monitoring, SSLs over the GWPSs were identified for Phase II constituents at the following downgradient sampling locations:

Shallow Wells

- MW-4S (Total Molybdenum);
- MW-6S (Total Cobalt);

Ms. Hannah Ford
November 10, 2025
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- MW-13S (Total Cobalt); and
- MW-14S (Total Cobalt).

Deep Wells

- MW-2D (Total Molybdenum);
- MW-3D (Total Lithium, Total Molybdenum, and Combined Radium 226 and 228);
- MW-4D (Total Molybdenum);
- MW-5D (Total Boron, Total Lithium, and Total Molybdenum);
- MW-7D (Total Arsenic);
- MW-9D (Total Lithium); and
- MW-13D (Total Molybdenum).

Surface Water Location

- SW-4 (Total Molybdenum).

In accordance with permit *Requirement E19*, this notification to the IDEM is being made within 14 days of these findings.

CLOSING

If you have any questions regarding this request, please do not hesitate to contact us at 412-264-6453.

Sincerely,

APPLIED GEOLOGY AND ENVIRONMENTAL SCIENCE, INC.



Bethany Flaherty
Senior Program Manager I



Robert W. King, L.P.G. #1237
Chief Hydrogeologist

Cc: J. Loewe, NiSource



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**PHASE I AND II GROUNDWATER MONITORING REPORT
SEMI-ANNUAL MONITORING EVENT
SEPTEMBER 2025
RESTRICTED WASTE SITE TYPE I (RWS I) LANDFILL
RM SCHAHFER GENERATING STATION
JASPER COUNTY, INDIANA**

NOVEMBER 2025

Prepared for:

NORTHERN INDIANA PUBLIC SERVICE COMPANY, LLC (NIPSCO)

Prepared by:

APPLIED GEOLOGY AND ENVIRONMENTAL SCIENCE, INC. (AGES)

**PHASE I AND II GROUNDWATER MONITORING REPORT
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Bethany Flaherty
Senior Program Manager I



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**PHASE I AND II GROUNDWATER MONITORING REPORT
SEMI-ANNUAL MONITORING EVENT
SEPTEMBER 2025
RESTRICTED WASTE SITE TYPE I (RWS I) LANDFILL
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JASPER COUNTY, INDIANA**

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**PHASE I AND II GROUNDWATER MONITORING REPORT
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JASPER COUNTY, INDIANA**

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PHASE I AND II GROUNDWATER MONITORING REPORT
SEMI-ANNUAL MONITORING EVENT
SEPTEMBER 2025
RESTRICTED WASTE SITE TYPE I (RWS I) LANDFILL
RM SCHAHFER GENERATING STATION
JASPER COUNTY, INDIANA

1.0 INTRODUCTION

1.1 Background

In January 1984, the Northern Indiana Public Service Company, LLC (NIPSCO) received an operating permit from the Indiana Department of Environmental Management (IDEM) to operate a Restricted Waste Site Type I (RWS I) Landfill at the RM Schahfer Generating Station, located at 2723 E 1500 N Road in Wheatfield, Jasper County, which is approximately 16 miles south of Valparaiso, Indiana (Figure 1). Under this permit, NIPSCO has implemented a routine Phase I Groundwater Monitoring Program at the site, in accordance with a Sampling and Analysis Plan (SAP) that was prepared by NIPSCO and approved by the IDEM in August 1999. The results of the monitoring program were provided to the IDEM in semi-annual monitoring reports.

In May 2005, the IDEM issued a letter to NIPSCO indicating that, because statistically significant increases (SSIs) over background concentrations had been detected for two (2) or more constituents, a Phase II Groundwater Monitoring Program was required at the site. The IDEM also requested that future semi-annual monitoring reports include statistical results, tabulated data, and a comparison of data to regulatory standards (Maximum Contaminant Levels, Secondary Maximum Contaminant Levels, Removal Action Levels, and Drinking Water Equivalent Limits). Per this request, in March 2006, Applied Geology and Environmental Science (AGES), Inc. prepared a Revised SAP for the site, which was reviewed and approved by the IDEM in April 2006. The SAP was implemented during the semi-annual groundwater sampling events from September 2006 through April 2020.

To update the statistical program for the site in line with the most current guidance (Statistical Analysis of Groundwater Monitoring Data at Resource Conservation and Recovery Act [RCRA] Facilities, Unified Guidance [U.S. EPA 2009]), in July 2018, AGES submitted a revised title page and revised pages six (6) through 10 of the SAP (the Statistical Evaluation Plan [StEP]) to the IDEM for review and approval. On April 15, 2018, NIPSCO received IDEM approval of the revised statistical approach, which was used to evaluate data from September 2018 through the April 2020 sampling event.

1.2 Permit Renewal: May 2020

In May 2020, the renewal of the RWS I Landfill operating permit for the site was approved by the IDEM, with an expiration of April 2025. Per permit *Requirement E3*, the facility groundwater and surface water monitoring systems include 14 well clusters and two (2) surface water sampling locations (Figure 2 and Table 1).

A Background Groundwater Quality Plan (BGWQP), an updated SAP, and a Quality Assurance Project Plan (QAPjP) were prepared and submitted to the IDEM in July 2020 in accordance with *Requirements 11, 12, and 13* of the permit, respectively. The purpose of the BGWQP was to specify background well locations that would allow for the development of background levels (unaffected by site conditions) for the parameters listed in the renewed permit. The QAPjP was included as an appendix to the SAP; the purpose of the documents was to describe sampling and laboratory protocol, equipment, and methods for collecting groundwater and surface water samples for the parameters listed in the renewal permit. The three (3) plans were approved by the IDEM in September 2020. All sampling events were conducted in accordance with the SAP.

To comply with permit *Requirement E17*, background groundwater and surface water samples were collected and analyzed for Phase I and Phase II constituents, secondary standards in 329 IAC 10-29-7(c), and parameters for which a Groundwater Protection Standard (GWPS) has been established in 329 IAC 10-29-10. Per *Requirement E17*, samples were collected from each background location (MW-1S, MW-1D, MW-10S, MW-10D, and SW-10) during four (4) quarterly sampling events from September 2020 through June 2021. Upon receipt, review, and verification of the analytical data from the fourth round of background sampling, the background groundwater quality was established for the site on July 23, 2021.

To comply with permit *Requirement 14*, a StEP was prepared within 60 days after background groundwater quality was established at the site and submitted to the IDEM in August 2021. The StEP was prepared in accordance with 329 IAC 10-29-5 and presents data distribution assumptions, an approach for verification resampling, and proposes a method of statistical evaluation for the monitoring program. The StEP was approved by the IDEM in October 2021.

In accordance with permit *Requirement E22*, a Semi-Annual Groundwater Monitoring Report for the September 2021 Phase I monitoring event was prepared and submitted in November 2021. The report was approved by the IDEM in December 2021. To comply with permit *Requirement E19a*, on November 12, 2021, the IDEM was notified that SSIs were identified for two (2) or more Phase I constituents at downgradient or downstream sampling locations.

Accordingly, to comply with permit *Requirement E19b*, samples were collected from all monitoring wells and surface water locations and analyzed for Phase II constituents in November/December 2021, and the results were submitted to the IDEM. In February 2022, in accordance with permit *Requirement E19c*, a letter report establishing the Phase II Groundwater

Monitoring Program at the site was submitted to the IDEM, and a conference call to consult with the IDEM Geology Section was requested.

On February 22, 2022, representatives from NIPSCO, AGES, and the IDEM held a Microsoft Teams meeting to discuss the Phase I and II Groundwater Monitoring Programs at the site. It was discussed in the meeting that the background data set for groundwater at the site only included five (5) sampling events and not the eight (8) events recommended for the establishment of background. Therefore, it was concluded that quarterly sampling would continue at the site until the eight (8) background events have been conducted.

The eighth round of data for the Phase I and II constituents was collected during the September 2022 monitoring event. The updated statistical evaluation of the background quality data was included in the semi-annual report for that event in accordance with permit *Requirement E22*. That report identified SSIs for two (2) or more Phase I constituents; therefore, the Phase II constituent data was statistically evaluated as part of the Phase II Groundwater Monitoring Program. For more than one (1) Phase II constituent, statistically significant levels (SSLs) over respective GWPSs at downgradient sampling locations were identified. SSLs were not identified in the surface water location. In accordance with permit *Requirement E19c*, a conference call to consult with the IDEM Geology Section was requested.

On December 21, 2022, representatives from NIPSCO, AGES, and the IDEM held a Microsoft Teams meeting. During the meeting, the Phase I and II Groundwater Monitoring Programs at the site were discussed. The IDEM provided standard recommendations for implementing an effective assessment monitoring program. Additionally, NIPSCO indicated that a corrective action program would be pursued as part of the program, as required under 329 IAC 10-29-9 and in accordance with permit *Requirement E21*. In accordance with the recommendations provided by the IDEM during the meeting and via email (provided in Appendix A), information regarding the following items will be incorporated into future reports:

- A specific section in the report that discusses the status of the assessment monitoring program for the site, including progress on the assessment of corrective measures;
- Mann-Kendal statistical and Sen's Slope trend analyses of all constituents that exceed their corresponding GWPS;
- Isoconcentration maps of all constituents that exceed their corresponding GWPS;
- A specific section in the report that discusses the facility's plume characterization approach and an evaluation of the nature and extent of GWPS exceedances; and
- Information regarding the development of sampling locations and methods to determine groundwater quality beyond the Army Corps of Engineers' levee and potential impacts to the Kankakee River.

In accordance with permit *Requirement E21*, NIPSCO implemented a corrective action program, as required under 329 IAC 10-29-9, and submitted a program plan in May 2023. The plan provides

a conceptual approach for the evaluation and implementation of corrective actions at the site. Additionally, it provides specific information regarding geology and hydrogeology at the site, applicable results from the Phase I and II Groundwater Monitoring Programs, an overview of remedial technologies, a discussion of supplemental site characterization activities, and a discussion of the selection of remedy process.

Per permit *Requirement E19*, the Phase I and II Groundwater Monitoring Programs continue at the site in accordance with the SAP and QAPjP. A semi-annual groundwater monitoring event was conducted in September 2025. This semi-annual groundwater monitoring report for the Phase I and II Groundwater Monitoring Programs has been prepared to comply with *Requirement E22*, which states that a groundwater monitoring report documenting each semi-annual sampling event will be submitted to the IDEM and will include the following information:

- One (1) original, unbound laboratory-certified report, with field reports and chain-of-custody forms;
- Groundwater information and flow maps;
- Documentation of field activities;
- Statistical evaluation report;
- Conclusions and recommendations; and
- An electronic data file of the analytical and field parameter results from the groundwater and surface system, as defined in permit *Requirement E23*.

As discussed above, this report also provides information regarding the items identified in the December 2022 meeting and via email (Appendix A). Additionally, a letter regarding the Phase I and II Groundwater Monitoring Event (report dated May 3, 2024) was sent from the IDEM to NIPSCO on August 28, 2024 (provided in Appendix A). This letter provided additional information regarding the facility's plume characterization approach to be incorporated into future reports. Therefore, this information, such as estimating the mass of the contaminants released, has been included herein.

1.3 Description of Facility

The RWS I Landfill at the RM Schahfer Generating Station, located at 2723 E 1500 N Road in Wheatfield, Jasper County, is approximately 16 miles south of Valparaiso, Indiana (Figure 1). The geology of the site is characterized by alluvial deposits, which overlay shale bedrock at an approximate depth of 33 feet below the ground surface. The alluvial deposits form the uppermost aquifer at the site. Groundwater within the alluvial deposits has generally been encountered within 10 feet of the ground surface.

Per permit *Requirement E3*, the facility groundwater and surface water monitoring system includes 14 well clusters and two (2) surface water sampling locations (Figure 2 and Table 1). Each well cluster includes one (1) shallow (S) well and one (1) deep (D) well, both of which are screened

within the alluvial aquifer. All of the wells are constructed of 1.75- to 2-inch nominal diameter polyvinyl chloride (PVC) with steel protective surface casings. The wells are labeled with the appropriate cluster number (i.e., MW-1S, MW-1D, MW-2S, etc.).

Wells MW-1S, MW-1D, MW-10S, and MW-10D are upgradient groundwater wells, and surface water sampling location SW-10 is at an upstream location (Figure 2 and Table 1). These background sampling locations are identified in both the renewal permit and the BGWQP and are unaffected by facility activities that may contribute parameters of concern.

2.0 DOCUMENTATION OF GROUNDWATER SAMPLING FIELD ACTIVITIES

2.1 Site Health and Safety

Per Occupational Safety and Health Administration (OSHA) regulations, a Site Specific Safety Plan (SSSP) was prepared and kept on-site during all field work. All persons entering the site were required to read and sign the SSSP daily. Emergency contacts, directions to the nearest hospital, and site hazards were included in the plan. Twice-daily health and safety meetings were conducted to discuss risks associated with the activities planned for each day, review general safety rules and responsibilities, and complete a job safety analysis (JSA) for each planned task. The facility-required health and safety training and orientation was also completed by AGES' staff.

2.2 Monitoring Well Sampling Activities

2.2.1 Well Inspections

Before measuring water levels or sampling, field staff inspected each well and documented its condition. The condition of the well pad, steel casing, lock, and hinged cover was also noted at each location. All wells were found to be in generally good condition, with operational locks and legible well identifiers.

2.2.2 Groundwater Level and Well Depth Measurements

Before groundwater sampling began, an electronic water level indicator was used to obtain a complete round of water level measurements from the monitoring wells and surface water locations. The water level indicator was decontaminated between wells with a non-phosphate detergent (such as Alconox) and a deionized (DI) water rinse. Depth to water and total depth of each well was measured to the nearest 0.01 foot and recorded in the Field Logbook. A summary of the depth to water measurements is presented in Table 2.

Groundwater flow maps for the shallow and deep aquifers from the September 2025 sampling event are provided on Figures 3 and 4, respectively. Based on these maps, groundwater in the uppermost aquifer (both shallow and deep) in the area of the RWS I Landfill flows generally to

the north and northeast. Groundwater flows toward the Kankakee River, which acts as a discharge boundary north of the site.

2.2.3 Monitoring Well Purging

To ensure that a representative volume of water was obtained during sampling, each monitoring well was purged before sampling. An adjustable rate peristaltic pump was used for purging all monitoring wells. The disposable tubing intake was placed at the mid-point of the saturated screen, based on the current water level measurement. The water level indicator was also placed in the well to monitor potential drawdown. At that time, the pump began purging the well at a minimum rate. The pumping rate never exceeded one (1) liter per minute. The same well purging procedures were then implemented to obtain well stability.

Once an acceptable flow rate had been established and maintained, pH, temperature, turbidity, and specific conductance were monitored and recorded every two (2) minutes using a calibrated multi-parameter water quality meter and a flow-thru cell. Purging continued until parameter stabilization occurred, as presented in the approved SAP.

Purge water was discharged directly to the ground surface, downgradient, and no closer than six (6) feet from any monitoring well.

2.2.4 Monitoring Well Sampling

Samples were collected in laboratory-provided, pre-preserved (if needed) bottleware. Because all down-well sampling equipment was disposable, a specific well sampling order was not required. All bottles were labeled with the unique sample number, time and date of the sample, and the identity of the sampling fraction. Groundwater and surface water samples were collected directly into the sample jars. Sampling was completed at the same flow rate as the well was purged. One (1) field duplicate sample was collected from a monitoring well at the site. All sample bottles were placed on ice in a cooler to maintain sample integrity. Once the sampling was completed, all sampling equipment was recovered and decontaminated (if needed). The well was then closed and secured.

2.2.5 Sampling Equipment Decontamination

All non-dedicated and non-disposable equipment was decontaminated after sample collection at each well and before reusing the equipment. This included decontaminating the water level indicator and water meters used to measure pH, turbidity, temperature, and specific conductance. The associated tubing was properly containerized for waste disposal at a Subtitle D licensed solid waste landfill.

2.2.6 Sample Preparation and Handling

All fieldwork was conducted in accordance with standard industry practices. To prevent cross-contamination, disposable, sterile, single-use sampling equipment was used to the extent possible, including latex gloves, plastic sheeting, and tubing. Field quality assurance/quality control (QA/QC) samples (i.e., field duplicates and equipment blanks) were collected and analyzed to ensure the effectiveness of the decontamination practices and evaluate overall precision. To ensure sample integrity, all samples were handled and shipped in accordance with strict chain-of-custody procedures, kept on ice, and cooled to an approximate temperature of 4°C or less. The chain-of-custody form accounted for the samples from the time of collection to the time the samples were delivered to the laboratory.

2.2.7 Field Documentation

During the sampling event, the field staff completed field documentation. The following information was collected and documented on-site:

- Time and date each well was purged and sampled;
- Condition of well heads and locks (defects, if any, photographed);
- Weather conditions during sample collection;
- Depth, diameter, and volume of each well;
- Condition of purged water with regard to odor and turbidity;
- Temperature of groundwater;
- Static water level elevations and the location of the measuring mark on the well casing;
- Chain-of-custody number and sample IDs; and
- Time equipment was decontaminated at each well location.

2.3 **Surface Water Sampling Activities**

As part of the monitoring program, surface water quality in the Stahlbaum Ditch was sampled. Two (2) surface water samples were collected at sampling points SW-4 and SW-10 (Figure 2). Sampling location SW-4 is the downstream sampling point and sampling location SW-10 is the upstream point. All sample collection and handling activities were performed as described above.

2.4 **Phase I and II Constituents**

To comply with permit *Requirement E14*, all groundwater and surface water samples were collected and analyzed for Phase I and Phase II constituents. A list of Phase I and II constituents is provided in Table 3.

3.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES AND LABORATORY METHODS

Laboratory analyses for samples collected during this project were performed by Pace Analytical Services, LLC at their laboratory in Indianapolis, Indiana. Analyses were performed in accordance with the QAPjP. QA/QC measures were implemented to ensure that data meets quality requirements. Sampling data was quality controlled through the collection of QC samples (i.e., field duplicate and equipment blanks) and the calibration of field and laboratory equipment was completed in accordance with applicable Standard Operating Procedures (SOPs). In accordance with permit *Requirement E24*, laboratory QA/QC documentation from valid analyses of groundwater and surface water samples will be retained by NIPSCO for at least three (3) years.

4.0 ANALYTICAL RESULTS

4.1 Summary of Analytical Results

The sampling for this semi-annual event was conducted between September 3 and 11, 2025. The analytical results of the background groundwater locations (MW-1S, MW-1D, MW-10S, and MW-10D) and surface water location (SW-10) are summarized in Table 4. The results from the downgradient wells and downstream location are summarized in Table 5. All groundwater and surface water samples were analyzed for Phase I and II constituents, as defined in the renewal permit.

The laboratory report is included in Appendix B. The historic, per location, data are provided in tabular format in Appendix C.

4.2 Data Verification and Usability

The field samples were collected in accordance with the SAP and QAPjP, and all data generated on the project were reviewed to ensure that applicable data quality requirements were met. The results of the data verification review indicate that all data met the project data quality requirements and are usable for the monitoring program.

4.3 Statistical Evaluation Results

The StEP, which was approved by the IDEM in October 2021, was applied to determine if any SSIs or SSLs occurred at compliance wells, the most recent sampling results (collected in September 2025) were compared to the calculated UTL value (Phase I monitoring) and the established GWPS (Phase II monitoring), respectively. Datasets for the shallow (S) and deep (D) compliance wells and surface water sample point were compared to the background datasets for shallow (S) and deep (D) wells and the surface water sample point, respectively. Appendix D provides the Statistical Evaluation Report for the September 2025 sampling event. The report

includes the results of the data screening, a comparison of the groundwater quality at each monitoring well and the surface water location, and the outcome of each statistical determination.

The results of the statistical determination are provided in Appendix D, Tables D-2 (Phase I monitoring) and D-4 (Phase II monitoring).

4.3.1 Phase I Groundwater Monitoring Program Results – September 2025

For the Phase I monitoring, SSIs were identified for two (2) or more Phase I constituents at the following downgradient sampling locations:

Shallow Wells

- MW-2S;
- MW-3Sa;
- MW-4S;
- MW-5S;
- MW-6S;
- MW-7S; and
- MW-14S.

Deep Wells

- MW-2D;
- MW-3D;
- MW-4D;
- MW-5D;
- MW-6D;
- MW-7D;
- MW-9D;
- MW-11D;
- MW-12D;
- MW-13D; and
- MW-14D.

Two (2) or more SSIs were identified in the surface water location (SW-4). In accordance with permit *Requirement E19a*, the IDEM will be notified of these findings within 14 days. SSIs will continue to be evaluated during subsequent sampling events, and a proposal for steps to address SSIs will be included in future reports, as needed.

4.3.2 Phase II Groundwater Monitoring Program Results – September 2025

For the Phase II monitoring, statistically significant levels (SSLs) over the GWPSs were identified for Phase II constituents at the following downgradient sampling locations:

Shallow Wells

- MW-4S (Total Molybdenum);
- MW-6S (Total Cobalt);
- MW-13S (Total Cobalt); and
- MW-14S (Total Cobalt).

Deep Wells

- MW-2D (Total Molybdenum);
- MW-3D (Total Lithium, Total Molybdenum, and Combined Radium 226 and 228);
- MW-4D (Total Molybdenum);
- MW-5D (Total Boron, Total Lithium, and Total Molybdenum);
- MW-7D (Total Arsenic);
- MW-9D (Total Lithium); and
- MW-13D (Total Molybdenum).

Surface Water

- SW-4 (Total Molybdenum).

5.0 CORRECTIVE ACTION PROGRAM UPDATE

In accordance with permit *Requirement E21*, NIPSCO implemented a corrective action program as required under 329 IAC 10-29-9 and submitted a program plan in May 2023. Below are updated preliminary plume characterization discussions, including isoconcentration maps, estimates of the mass of the contaminants released, and evaluations of plume stability. Sections 5.1.1 through 5.1.3 provide the methods used to characterize each plume and evaluate the stability, followed by constituent-specific discussions.

5.1 Plume Characterization and Evaluation of Stability

5.1.1 Isoconcentration Maps

To support preliminary plume characterization, isoconcentration maps of all constituents that exceed their corresponding GWPS are provided in Appendix E.

5.1.2 Estimates of the Mass of the Contaminants Released

To develop an approximation of the mass of each contaminant in groundwater, the isoconcentration maps (Appendix E) were used to calculate the estimated square footage for the plume area at each contour interval. The area was multiplied by the average saturated thickness of the respective aquifer (9.91 feet for the shallow aquifer and 25.63 feet for the deep aquifer), which provided the total volume of the aquifer in each area in cubic feet. The volume of groundwater was then calculated by multiplying the aquifer volume by the estimated porosity of the aquifer (30%)¹; this value was then converted to liters.

To estimate the mass of each contaminant, the total volume of groundwater in each area (liters) was then multiplied by the assigned concentration in milligrams per liter. The resulting value was then converted to tonnage; the approximation of the mass of each contaminant in groundwater is provided in the sections below. As this information continues to be calculated in future reports, the tonnage values will be used to evaluate the stability of each plume.

The estimates of the mass of contaminants released are provided in Appendix F.

5.1.3 Evaluation of Plume Stability Using Statistical Analyses

To evaluate plume stability, statistical analyses were completed for each well where constituent concentrations were confirmed to exceed a GWPS in September 2025 using a Linear Regression and Sen's Slope Estimator method (with a Mann-Kendall Analysis). The results of the statistical evaluations are presented in Appendix G. The results of statistical analyses will be updated over time. Further rounds of sampling are required to evaluate these results and to perform other complementary statistical analyses.

5.1.4 Plume Characterization and Stability Evaluation - Constituent-Specific Discussions

5.1.4.1 Cobalt – Shallow Aquifer

Cobalt exceedances were observed in wells MW-6S, MW-13S, and MW-14S (Figure E-1). The Cobalt exceedances extend in the general direction of groundwater flow to well MW-6S. Based on these results, the RWS I Landfill appears to be the source of Cobalt in the shallow aquifer.

The calculated mass of Cobalt for September 2025 was 0.0129 metric tons (Table F-1). Although no significant trends were observed in the Linear Regression and Sen's Slope Estimator for the wells with Cobalt exceedances (MW-6S, MW-13S, and MW-14S), the downgradient extent of Cobalt has not been defined in that area (Figure E-1). One (1) additional downgradient shallow well is proposed to define the extent of Cobalt in the shallow aquifer. Progress updates will be included in future groundwater monitoring reports.

¹ Golder Associates, Groundwater Monitoring Program Implementation Manual, October 2017

5.1.4.2 Arsenic – Deep Aquifer

An Arsenic exceedance was observed in well MW-7D (Figure E-2). The calculated mass of Arsenic for September 2025 was 0.0047 metric tons (Table F-2).

Exceedances were noted in this well in September 2022 and March 2023 and were discussed in the Corrective Action Program Plan dated May 2023. Before this September 2025 sampling event, exceedances have not been detected during any sampling event since March 2023. Similar to the September 2022 and March 2023 sampling events and discussed in the plan, the September 2025 Arsenic result slightly exceeds the GWPS in well MW-7D only, which is located further downgradient from the RWS I Landfill than other wells where Arsenic results did not exceed the GWPS (MW-3D, MW-4D, MW-11D, and MW-13D). Additionally, no significant trends were observed in the Linear Regression and Sen's Slope Estimator for the well with an Arsenic exceedance (MW-7D). Based on these results, the RWS I Landfill does not appear to be the source of the Arsenic exceedance in the deep aquifer.

Also, as discussed in Section 4 of the Corrective Action Program Plan, Arsenic concentrations in groundwater are significantly impacted by changes in oxidation-reduction conditions in the environment and also by the presence of extremely low levels of sediment in the groundwater samples. Therefore, the Arsenic exceedance at well MW-7D could be related to these other factors and not to the RWS I Landfill.

5.1.4.3 Boron – Deep Aquifer

A Boron exceedance was observed in well MW-5D (Figure E-3). As discussed in the Corrective Action Program Plan and based on the recent results, the Boron exceedances may actually be observed because the background data does not include enough data to support a robust statistical evaluation. Further rounds of groundwater sampling will be performed to better evaluate Boron exceedances. Additionally, the downgradient extent of Boron has been defined in that area (Figure E-3), and initial trend tests indicate that there is not an increasing trend of the concentrations of Boron in well MW-5D.

The calculated mass of Boron for September 2025 was 44.63 metric tons (Table F-3).

5.1.4.4 Lithium – Deep Aquifer

In all previous sampling events, Lithium only exceeded the GWPS in the deep aquifer and was limited to well MW-3D, which is in the immediate vicinity of the RWS I Landfill; Lithium was not detected in wells further downgradient (MW-4D, MW-6D, MW-7D, MW-11D, MW-12D, MW-13D, and MW-14D). However, in September 2025, Lithium was detected in well MW-9D; as a result, the downgradient extent of Lithium has not been defined in that area (Figure E-4). Therefore, updated and additional information regarding this constituent will be included in an addendum of the Corrective Action Program Plan.

The calculated mass of Lithium for September 2025 was 0.1229 metric tons (Table F-4). No significant trends were observed in the Linear Regression and Sen's Slope Estimator for the wells with Lithium exceedances (MW-3D, MW-5D, and MW-9D).

5.1.4.5 Molybdenum – Shallow Aquifer, Deep Aquifer, and Surface Water

In the shallow aquifer, Molybdenum only exceeded the GWPS in one (1) well in September 2025 (MW-4S) (Figure E-5). Total Molybdenum was not detected above the GWPS in further downgradient wells (MW-3Sa, MW-6S, MW-7S, MW-11S, and MW-12S). The exceedances of Molybdenum in the deep aquifer are generally limited to wells in the immediate vicinity of the RWS I Landfill (MW-2D, MW-3D, MW-4D, MW-5D, and MW-13D); Molybdenum is not detected above the GWPS in wells further downgradient (MW-6D, MW-7D, MW-11D, MW-12D, and MW-14D) (Figure E-6). In surface water, Molybdenum exceeded the GWPS at the sampling location SW-4 (Figure 2); however, no exceedances were noted prior to this sampling event.

The calculated mass of Molybdenum for September 2025 was 6.25 metric tons in the shallow and aquifers (Table F-5). Note that this approximate mass calculation for Molybdenum is driven primarily by the mass calculated in the deep aquifer, which exhibits the greatest Molybdenum concentration at the site.

No significant trends were observed in the Linear Regression and Sen's Slope Estimator for the wells with Molybdenum exceedances in surface water (SW-4), the shallow aquifer (MW-4S), and select wells in the deep aquifer (MW-2D, MW-4D, and MW-13D). In the deep aquifer, a significant increasing trend using a Linear Regression was noted at wells MW-3D and MW-5D, which are in the immediate vicinity of the RWS I Landfill; however, the trends were not significant using Sen's Slope Estimator.

Based on these results, the RWS I Landfill appears to be the source of Molybdenum in this area. An updated evaluation regarding this constituent will be included in an addendum of the Corrective Action Program Plan, based on the exceedances in the shallow aquifer and surface water.

5.1.4.6 Combined Radium 226/228 – Deep Aquifer

Combined Radium 226/228 only exceeded the GWPS in one (1) well in September 2025 (MW-3D) (Figure E-7). Combined Radium 226/228 was not detected above the GWPS in wells further downgradient (MW-6D, MW-7D, and MW-11D). As the combined Radium 226/228 result is a radioactivity level and not a mass per unit volume, a tonnage for this constituent cannot be calculated. No significant trends were observed in the Linear Regression and Sen's Slope Estimator for the well MW-3D, which had an Arsenic exceedance.

Based on these results, the Combined Radium 226/228 plume appears to be stable, suggesting that it is greatly retarded in its transport or cannot be transported significant distances in the deep

aquifer. Further evaluation of the transport potential of Combined Radium 226/228 in the deep aquifer will be conducted to better identify processes impacting its migration in groundwater at the site.

6.0 CONCLUSIONS

In accordance with permit *Requirement E19a*, the IDEM will be notified of the Phase I and II monitoring findings within 14 days. Additionally, in accordance with permit *Requirement E19c*, a consultation with the IDEM Geology Section will be requested within 30 days after the submission of this report to discuss the current site conditions, specifically regarding two (2) constituents, Lithium and Molybdenum.

The Phase I and II Groundwater Monitoring Programs will continue at the site, per Permit *Requirement E14*. All reporting required under this permit requirement will continue to be completed.

In addition to meeting permit requirements, data from the programs will also be used to support the ongoing evaluations discussed in the Corrective Action Program Plan, which was submitted to IDEM in May 2023 (pending IDEM approval) and an addendum to the Corrective Action Program Plan.

TABLES

**TABLE 1
GROUNDWATER MONITORING SYSTEM**

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Monitoring Well Sampling Points
MW-1S (Background) MW-1D (Background)
MW-2S MW-2D
MW-3Sa MW-3D
MW-4S MW-4D
MW-5S MW-5D
MW-6S MW-6D
MW-7S MW-7D
MW-8S MW-8D
MW-9S MW-9D
MW-10S (Background) MW-10D (Background)
MW-11S MW-11D
MW-12S MW-12D
MW-13S MW-13D
MW-14S MW-14D
Surface Water Sampling Points
SW-4 SW-10 (Background)

TABLE 2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
SEPTEMBER 2025

RM Schahfer Generating Station RWS I Landfill
Jasper County, Indiana

Sample Location ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1S	668.81	9.87	658.94
MW-1D	668.86	9.89	658.97
MW-2S	664.10	5.51	658.59
MW-2D	663.73	5.14	658.59
MW-3Sa	667.58	10.18	657.40
MW-3D	667.58	10.30	657.28
MW-4S	666.90	9.22	657.68
MW-4D	666.56	8.84	657.72
MW-5S	664.29	6.04	658.25
MW-5D	664.37	6.07	658.30
MW-6S	664.61	9.92	654.69
MW-6D	664.64	10.27	654.37
MW-7S	664.80	8.39	656.41
MW-7D	664.72	8.42	656.30
MW-8S	663.75	8.85	654.90
MW-8D	663.52	8.64	654.88
MW-9S	662.42	7.85	654.57
MW-9D	662.68	7.95	654.73
MW-10S	662.53	3.86	658.67
MW-10D	663.18	4.48	658.70
MW-11S	663.25	5.95	657.30
MW-11D	663.57	6.32	657.25
MW-12S	663.48	6.02	657.46
MW-12D	663.60	6.23	657.37
MW-13S	664.67	7.01	657.66
MW-13D	664.80	7.09	657.71
MW-14S	665.24	7.97	657.27
MW-14D	665.41	8.15	657.26
SW-4	658.25	3.84	654.41
SW-10	656.91	1.74	655.17

**TABLE 3
PHASE I AND II CONSTITUENT LISTS**

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

PHASE I CONSTITUENTS
Field pH
Field Specific Conductance
Total Boron
Total Calcium
Chloride
Fluoride
Sulfate
Total Dissolved Solids
PHASE II CONSTITUENTS
Total Antimony
Total Arsenic
Total Barium
Total Beryllium
Total Boron
Total Cadmium
Total Chromium
Total Cobalt
Fluoride
Total Lead
Total Lithium
Total Mercury
Total Molybdenum
Total Selenium
Total Thallium
Radium 226 and 228 Combined

**TABLE 4
SUMMARY OF BACKGROUND ANALYTICAL RESULTS - SEPTEMBER 2025**

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Constituent	Units	MW-1S	MW-1D	MW-10S	MW-10D	SW-10
		AR-AQMW01S-60001	AR-AQMW01D-60001	AR-AQMW010S-60001	AR-AQMW010D-60001	AR-AQMW010-20001
Phase I Constituents						
Field pH	s.u.	6.54	7.09	6.27	7.27	6.53
Field Specific Conductance	µS/cm	320	453	524	398	427
Boron, Total	mg/L	0.18	6.9	0.044	0.059	0.047
Calcium, Total	mg/L	40.3	77.1	71.7	60.8	61.5
Chloride	mg/L	4.4	13.6	34.5	18.8	7.8
Fluoride	mg/L	<0.1	0.27	<0.1	0.13	0.17
Sulfate	mg/L	35.6	51.8	63.1	27.2	58.7
Total Dissolved Solids	mg/L	165	351	328	253	264
Phase II Constituents						
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	<0.001	<0.001	<0.001	<0.001	0.0014
Barium, Total	mg/L	0.011	0.031	0.017	0.026	0.063
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	0.18	6.9	0.044	0.059	0.047
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.001	<0.001	<0.001
Fluoride	mg/L	<0.1	0.27	<0.1	0.13	0.17
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.022	0.0018	0.0011	<0.001	0.0066
Selenium, Total	mg/L	0.0054	<0.001	0.0012	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	0.504	0.906	0.804	0.891	1.23

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRAIDENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-2S	MW-2D	MW-3Sa	MW-3D	MW-4S	MW-4D
		AR-AQMW02S-60001	AR-AQMW02D-60001	AR-AQMW03Sa-60001	AR-AQMW03D-60001	AR-AQMW04S-60001	AR-AQMW04D-60001
Phase I Constituents							
Field pH	s.u.	7.18	6.65	7.36	6.86	6.98	6.96
Field Specific Conductance	µS/cm	963	1480	1420	17700	1130	2180
Boron, Total	mg/L	3.3	10.5	1.6	12	2	5.2
Calcium, Total	mg/L	137	68.6	134	284	108	235
Chloride	mg/L	3.4	30	2	729	11.1	110
Fluoride	mg/L	0.43	1.1	0.26	<0.1	0.27	0.26
Sulfate	mg/L	332	780	233	12500	363	1780
Total Dissolved Solids	mg/L	627	1500	572	20100	747	2970
Phase II Constituents							
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	0.0047	<0.001	0.0073	0.0021	0.0054	<0.001
Barium, Total	mg/L	0.098	0.039	0.078	0.029	0.036	0.044
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	3.3	10.5	1.6	12	2	5.2
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001
Fluoride	mg/L	0.43	1.1	0.26	<0.1	0.27	0.26
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	0.0248	<0.02	0.0659	<0.02	0.0204
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.026	1.3	0.026	0.32	0.13	1.5
Selenium, Total	mg/L	<0.001	<0.001	0.0018	0.0032	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	1.82	1.36	1.89	5.16	1.58	3.17

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRAIDENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Constituent	Units	MW-5S	MW-5D	MW-6S	MW-6D	MW-7S	MW-7D
		AR-AQMW05S-60001	AR-AQMW05D-60001	AR-AQMW06S-60001	AR-AQMW06D-60001	AR-AQMW07S-60001	AR-AQMW07D-60001
Phase I Constituents							
Field pH	s.u.	6.65	6.09	5.2	5.02	5.78	6.05
Field Specific Conductance	µS/cm	1130	3130	426	392	684	601
Boron, Total	mg/L	2.5	13.9	0.045	0.022	0.034	0.036
Calcium, Total	mg/L	197	457	39.3	64.5	88.4	84.3
Chloride	mg/L	7.2	683	13.6	11.1	4.9	19
Fluoride	mg/L	0.3	<0.1	<0.1	0.26	0.24	0.16
Sulfate	mg/L	461	4850	111	78.5	221	95.7
Total Dissolved Solids	mg/L	908	8100	221	275	466	378
Phase II Constituents							
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	0.0012	<0.001
Arsenic, Total	mg/L	0.004	<0.001	<0.001	0.0018	0.0015	0.011
Barium, Total	mg/L	0.22	0.067	0.033	0.028	0.092	0.039
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	2.5	13.9	0.045	0.022	0.034	0.036
Cadmium, Total	mg/L	<0.0002	<0.0002	0.00039	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0096	<0.001	0.0024	<0.001
Fluoride	mg/L	0.3	<0.1	<0.1	0.26	0.24	0.16
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	0.0405	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.037	2.6	<0.001	0.0048	0.0038	0.0043
Selenium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	2.33	4.93	1.07	0.802	0.498	1.06

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRAIDENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-8S	MW-8D	MW-9S	MW-9D	MW-11S	MW-11D
		AR-AQMW08S-60001	AR-AQMW08D-60001	AR-AQMW09S-60001	AR-AQMW09D-60001	AR-AQMW011S-60001	AR-AQMW011D-60001
Phase I Constituents							
Field pH	s.u.	7.35	7.14	6.9	6.5	6.87	6.31
Field Specific Conductance	µS/cm	220	357	417	500	863	2210
Boron, Total	mg/L	0.029	0.37	0.025	1.6	0.067	0.73
Calcium, Total	mg/L	28.5	49.8	54.6	44	69.9	111
Chloride	mg/L	5.3	7.7	16.3	17.8	9.7	74
Fluoride	mg/L	<0.1	0.17	0.41	0.41	0.27	0.13
Sulfate	mg/L	28.5	26.5	45.4	1.8	46.8	1060
Total Dissolved Solids	mg/L	130	229	279	318	339	1870
Phase II Constituents							
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium, Total	mg/L	0.0042	0.04	0.049	0.047	0.053	0.052
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	0.029	0.37	0.025	1.6	0.067	0.73
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0027	<0.001	0.0012	<0.001
Fluoride	mg/L	<0.1	0.17	0.41	0.41	0.27	0.13
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	<0.02	<0.02	0.0438	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	<0.001	0.0024	0.003	0.0024	0.0024	0.0044
Selenium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	1.25	0.7	0.796	1.16	1.15	1.4

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRADIENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Constituent	Units	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	SW-4
		AR-AQMW012S-60001	AR-AQMW012D-60001	AR-AQMW013S-60001	AR-AQMW013D-60001	AR-AQMW014S-60001	AR-AQMW014D-60001	AR-AQSW004-20001
Phase I Constituents								
Field pH	s.u.	6.91	6.24	6.4	5.72	5.46	5.56	6.71
Field Specific Conductance	µS/cm	520	2780	349	1160	477	550	887
Boron, Total	mg/L	0.11	0.96	0.052	1.1	0.032	0.037	3.3
Calcium, Total	mg/L	50.6	135	56.7	52.4	40.7	86.8	72.5
Chloride	mg/L	11.9	110	14.5	80.4	14.5	15.6	26.8
Fluoride	mg/L	0.44	0.2	0.24	0.29	0.19	0.17	0.52
Sulfate	mg/L	40.8	1470	75.7	868	75.5	81.9	480
Total Dissolved Solids	mg/L	237	2480	283	1600	245	364	890
Phase II Constituents								
Antimony, Total	mg/L	<0.001	<0.001	<0.001	0.0045	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	0.0012	<0.001	0.0033	<0.001	0.0011	0.0012	0.0016
Barium, Total	mg/L	0.055	0.028	0.072	0.045	0.1	0.028	0.038
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	0.11	0.96	0.052	1.1	0.032	0.037	3.3
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.00021	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0088	<0.001	0.036	<0.001	<0.001
Fluoride	mg/L	0.44	0.2	0.24	0.29	0.19	0.17	0.52
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.017	0.031	0.0082	0.16	0.0016	0.0091	0.31
Selenium, Total	mg/L	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	1.16	0.578	0.799	0.758	1.54	0.496	1.63

Notes:

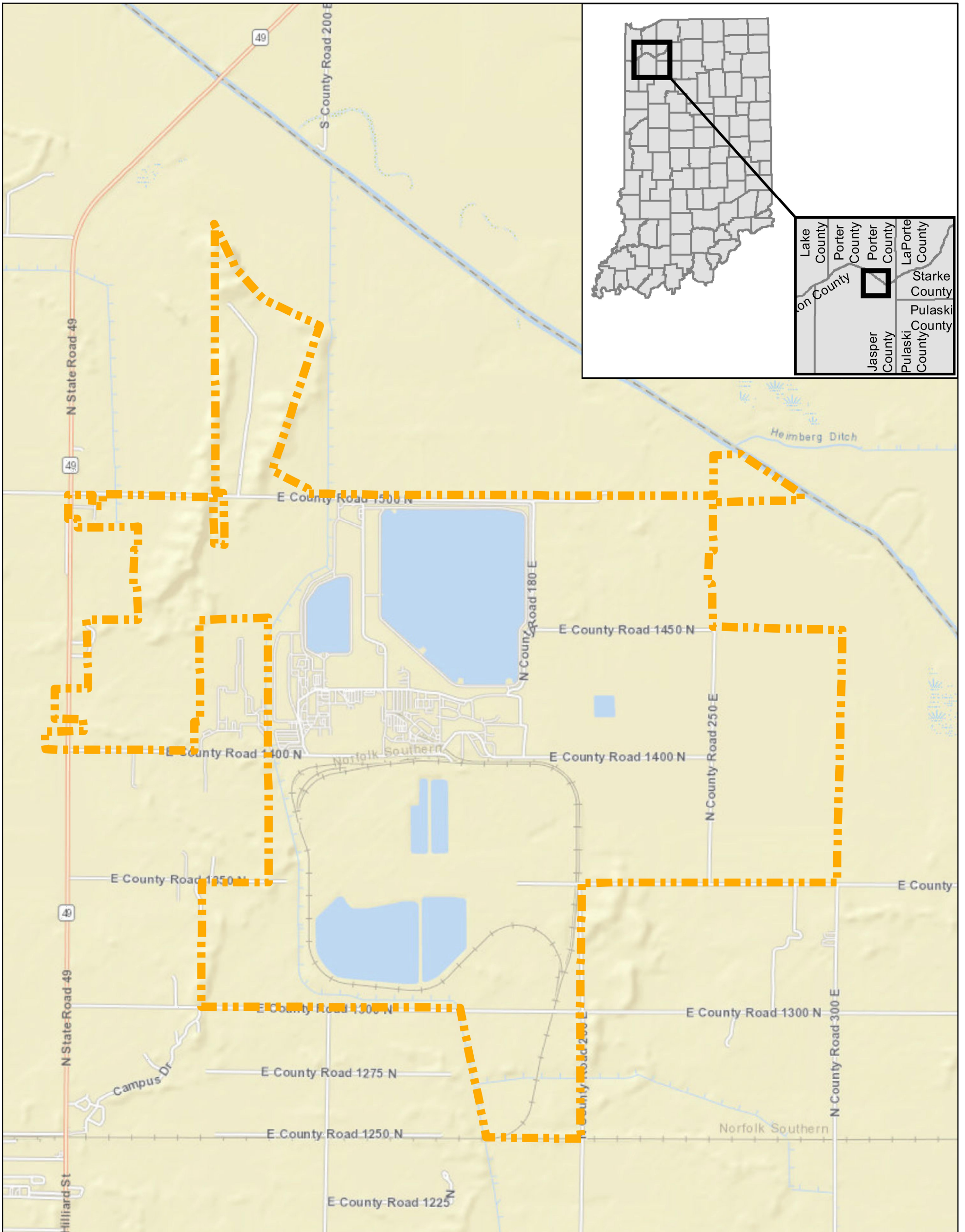
mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

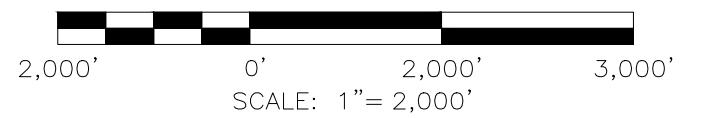
s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

FIGURES



LEGEND:
 APPROXIMATE PROPERTY LINE



DRAWN BY	
CHECKED BY	
JOB NO.	2023100-SCH-NIPSCO
DWG FILE	2023100_NIPSCO_LocationMap [SiteLocation]
DRAWING SCALE	AS SHOWN



AGES
 Applied Geology And Environmental Science, Inc.

2402 Hookstown Grade Road, Suite 200
 Clinton, PA 15026
 412.264.6453

NiSOURCE, INC.

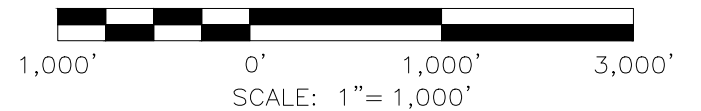
RM SCHAFER GENERATING STATION
 RWS I LANDFILL
 JASPER COUNTY INDIANA
 SITE LOCATION MAP

DRAWING NAME	FIGURE 1	REV.	0
--------------	----------	------	---



LEGEND:

- ◆ AGES SHALLOW MONITORING WELL
- ◆ AGES DEEP MONITORING WELL
- SURFACE WATER SAMPLE



DRAWN BY		NiSOURCE, INC.	
CHECKED BY		RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA GROUNDWATER MONITORING LOCATION MAP	
JOB NO. 2023100-SCH-NIPSCO		DRAWING NAME	
DWG FILE 2023100_NIPSCO_LocationMap [WellLocation]		FIGURE 2	
DRAWING SCALE AS SHOWN		REV. 0	



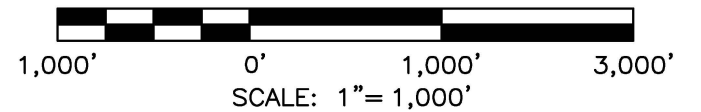
AGES
Applied Geology And Environmental Science, Inc.


2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453



LEGEND:

- ◆ AGES SHALLOW MONITORING WELL
- ◆ AGES DEEP MONITORING WELL
- SURFACE WATER SAMPLE
- GROUNDWATER ELEVATION CONTOURS (FEET)

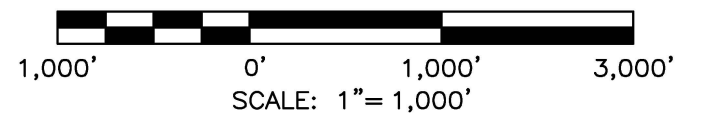


DRAWN BY	MST		NiSOURCE, INC.	
CHECKED BY		2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453	RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA GROUNDWATER FLOW MAP - SHALLOW AQUIFER SEPTEMBER 2025	
JOB NO.	2025010-SCH-NIPSCO		DRAWING NAME	FIGURE 3
DWG FILE	2025010_NIPSCO_GW_Sept2025 [IDEMGWShallow]		DRAWING SCALE	AS SHOWN
			REV. 0	



LEGEND:

- ◆ AGES SHALLOW MONITORING WELL
- ◆ AGES DEEP MONITORING WELL
- SURFACE WATER SAMPLE
- GROUNDWATER ELEVATION CONTOURS (FEET)



DRAWN BY	MST	 AGES <small>Applied Geology And Environmental Science, Inc.</small>	NiSOURCE, INC.	
CHECKED BY			RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA GROUNDWATER FLOW MAP - DEEP AQUIFER SEPTEMBER 2025	
JOB NO.	2025010-SCH-NIPSCO	2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453	DRAWING NAME	
DWG FILE	2025010_NIPSCO_GW_Sept2025 [IDEMGWDeep]		FIGURE 4	
DRAWING SCALE	AS SHOWN		REV.	
			0	

APPENDIX A

IDEM EMAIL CORRESPONDENCE



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

August 29, 2024

VIA EMAIL jloewe@nisource.com

Mr. Jeff Loewe
Manager, Environmental Remediation
NiSource Corp.
801 E 86th Avenue
Merrillville, IN 46410

Re: *Phase I and II Groundwater Monitoring Event*
Dated May 3, 2024
VFC # [83634648](#)
RM Schahfer Generating Station
RWS I Landfill
Jasper County
SW Program ID 37-01

Dear Mr. Loewe:

On May 3, 2024, we received the *Phase I and II Groundwater Monitoring Event* (Report) from you on behalf of the facility. The following comments are the result of our review.

The Report describes a groundwater monitoring event conducted by AGES on March 5, 2024, at the RM Schahfer Generating Station RWS I. Additionally, the Report generally complies with the groundwater monitoring requirements listed in the Permit Renewal dated May 27, 2020 (VFC # [82975469](#)), 40 CFR 257, the Sampling and Analysis Plan (SAP) dated July 22, 2020 (VFC # [83014335](#)), and the Statistical Evaluation Plan (StEP) dated August 16, 2021 (VFC # [83202190](#)).

The facility needs to continue with its semiannual groundwater monitoring program for the RWS I Landfill, as detailed in the Permit Renewal, SAP, and StEP. Additionally, we have further comments.

The facility analyzed all groundwater samples for Phase I and Phase II parameters listed in the Permit Renewal. The Report identifies statistically significant increases (SSIs) for two or more Phase I monitoring parameters at multiple shallow and deep groundwater monitoring wells and surface water location SW-4. The Report identifies groundwater protection standard (GWPS) exceedances for multiple Phase II parameters including Total Cobalt, Total Boron, Total Molybdenum, Total Lithium, and Radium 226 and 228 Combined at multiple shallow and deep wells.



Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!



As summarized above, the facility determined GWPS exceedances at one or more downgradient groundwater monitoring wells. Therefore, NIPSCO needs to continue its assessment monitoring program.

Please note, if NIPSCO determines GWPS exceedances at the farthest downgradient groundwater monitoring well location(s), then NIPSCO must propose additional monitoring locations (groundwater, surface water, etc.) to continue the investigation and characterization of the nature and extent (N&E) of any GWPS exceedances.

Additionally, NIPSCO needs to continue to incorporate the following into the future investigation and characterization of the N&E of GWPS exceedance(s) and into future groundwater monitoring reports:

- Include a specific section in the reports that discusses the status of your assessment monitoring program, including progress on your assessment of corrective measures and/or remedy selection.
- Include Mann-Kendal statistical and Sen's Slope trend analyses at a 95% level of confidence for all constituents that exceed their corresponding GWPS.
- Include isoconcentration maps for all constituents that exceed their corresponding GWPS.
- Include a specific section in the reports that discusses the facility's plume characterization approach, including information on the source of the contamination, contaminant release mechanisms, estimating the mass of the contaminants released, defining the overall geometry of the contaminant plume (the vertical and lateral dispersion), and an evaluation of the N&E of GWPS exceedances. Please note that including a discussion on the presence of commingling plumes from multiple source areas (e.g., Multi-Cell Unit, Waste Disposal Area, etc...) appears appropriate.
- Develop sampling locations and methods to determine groundwater quality beyond applicable downgradient monitoring well locations and potential impacts to nearby surface water bodies including Stahlbaum Ditch and the Kankakee River, as these groundwater/surface water quality data are necessary to assist in assessing the extent and effects of the plume. These additional monitoring locations will assist with N&E determinations and provide additional information on plume geometry, when applicable.

NIPSCO needs to work with IDEM to characterize the N&E of groundwater contamination as necessary. The surface water aspect (if applicable) must be included in your N&E investigation of the GWPS exceedances and must be implemented in a manner that is representative of nearby surface water bodies including Stahlbaum Ditch and the Kankakee River.

Please note that per 40 CFR 257.97(b)(1) and (4), “Remedies must: [...] Be protective of human health and the environment;” and “Remove from the environment as much of the contaminated material that was released from the CCR unit as is feasible, taking into account factors such as avoiding inappropriate disturbance of sensitive ecosystems[.]” It is unclear how NIPSCO can demonstrate compliance with these standards without an N&E investigation that covers “as much of the contaminated material that was released from the CCR unit as is feasible.” Unless it is demonstrably unfeasible, the N&E investigation needs to include representative sampling of surface water that may be impacted.

Additionally, please note that if NIPSCO can demonstrate that the concentrations of GWPS exceedance(s) at the outermost wells are below the Indiana (surface) Water Quality Standards (SWQS) described in the second bullet below, then surface water sampling is not necessary for that constituent since surface water will already have met the SWQS. However, if NIPSCO determines that the concentrations of GWPS exceedance(s) are at or above the SWQS, then NIPSCO needs to submit a surface water monitoring plan that adequately addresses the following recommendations:

- As specified in the *Criteria for all ground water* under 327 IAC 2-11-5(3), “For waters of the state, surface water quality standards shall be met in the surface water at the ground water-surface water interface.” Therefore, surface water sampling locations need to include baseflow and possibly pore water sampling locations at the confluence of the groundwater discharge/recharge boundary of the lake/river, near groundwater monitoring locations that have determined GWPS exceedances. Based on these criteria and when and where applicable, NIPSCO will likely need to base surface water and/or pore water sampling locations on the screened depth interval of GWPS exceedances and groundwater flow vectors, including both vertical and horizontal gradients. The resulting data need to be representative of the nearby surface water and assist in determinations made from the N&E of GWPS exceedances, and SWQS exceedances (described below).
- NIPSCO needs to evaluate the surface water sampling results against SWQS when and where GWPS exceedances have reached or are entering the river system. [Indiana Water Quality Standards](https://www.in.gov/idem/cleanwater/resources/water-quality-standards/) (327 IAC 2 (<https://www.in.gov/idem/cleanwater/resources/water-quality-standards/>)) (SWQS) exist by rule and take precedence over guidance. Based on the location of the RM Schahfer Generating Station and following 327 IAC 2, NIPSCO needs to utilize the water quality criteria applicable outside the Great Lakes System under 327 IAC 2-1-6, “Minimum surface water quality criteria.” These criteria include the numeric criteria specifically identified in the section and for the substances for which numeric criteria are not specified, they include the criteria calculated pursuant to the procedures contained in 327 IAC 2-1-8.2 through 8.6. After the facility evaluates sampling results against the SWQS, we recommend comparing the results with the screening levels in the EPA *Region 4 Ecological Risk Assessment Supplemental Guidance* updated in March 2018 (<https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance>).

Mr. Jeff Loewe
Page 4 of 4

Thank you for your attention to this matter. If you have questions, please contact Mr. Marty Harmless of my staff at mharmles@idem.IN.gov or call (317) 234-0597.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Guerrettaz". The signature is fluid and cursive, with a prominent initial "J" and a long, sweeping tail.

John A. Guerrettaz, LPG
Chief, Geology Section
Permits Branch
Office of Land Quality

cc: Jasper County Health Department
IDEM Northern Regional Office
Ms. Bethany Flaherty, AGES
Mr. Tom Kreke, Solid Waste Permits Section, OLQ, IDEM
Mr. Adam Weinzapfel, Solid Waste Permits Section, OLQ, IDEM
Mr. Troy Weaver, Geology Section, OLQ, IDEM

Bethany Flaherty

From: HARMLESS, MARTY <MHARMLES@idem.IN.gov>
Sent: Wednesday, December 21, 2022 12:28 PM
To: Loewe \ Jeff
Cc: Bethany Flaherty; Robert King
Subject: Effective Assessment Monitoring

Bethany, as discussed at today's meeting, these are our standard recommendations for implementing an effective Assessment Monitoring Program. Please note the surface water comments are only applicable when groundwater exceedances reach surface water bodies.

To assist in determining the nature and extent (N&E) of the groundwater protection standard (GWPS) exceedances and in evaluating the effectiveness of the assessment monitoring program at the landfill, the facility needs to incorporate the following items into future groundwater monitoring reports:

- Include a specific section in the reports that discusses the status of your assessment monitoring program, including progress on your assessment of corrective measures.
- Include Mann-Kendal statistical and Sen's Slope trend analyses of all constituents that exceed their corresponding GWPS.
- Include isoconcentration maps of all constituents that exceed their corresponding GWPS.
- Include a specific section in the reports that discusses the facility's plume characterization approach, including information on the source of the contamination, contaminant release mechanisms, estimating the mass of the contaminants released, defining the overall geometry of the contaminant plume (the vertical and lateral dispersion), and an evaluation of the N&E of GWPS exceedances. Please note that including a discussion on the presence of commingling plumes from multiple source areas (e.g., NAPS, RWS II Landfill, East Ash Pond System, and Cooling Lake) is appropriate.
- Develop sampling locations and methods to determine groundwater quality beyond the Army Corps of Engineers' levee and potential impacts to the XXXX River, as these groundwater/surface water quality data are necessary to assist in assessing the extent and effects of the plume. These additional monitoring locations will assist with N&E determinations and provide additional information on plume geometry.

The facility needs to work with IDEM to characterize the N&E of the groundwater contamination, as necessary. The surface water aspect (if applicable) must be included in your N&E investigation of the GWPS exceedances and must be implemented in a manner that is representative of the xxxx River.



Marty Harmless
Geologist 1
Geology Section - Permits Branch
Office of Land Quality
317-234-0597 • mharmles@idem.IN.gov

Indiana Department of Environmental Management
100 N. Senate Avenue, Indianapolis, IN 46204

<https://www.in.gov/idem/waste/>

IDEM values your feedback.

Have a comment or question? Please contact us at publiccomment@idem.in.gov



APPENDIX B

LABORATORY REPORT



October 06, 2025

Ms. Bethany Flaherty
AGES, Inc
2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026

RE: Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Dear Ms. Flaherty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2025 and September 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Travis Sitko, Applied Geology and Environmental Science, Inc



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Arizona Certification #: AZ0734
 California Certification #: 2950
 Connecticut Certification #: PH-0694
 Florida/TNI Certification #: E87683
 Guam Certification
 Idaho Certification
 Indiana Certification
 Kansas Certification #: E-10358
 KY WW Permit #: KY0098221
 Louisiana DHH/TNI Certification #: LA010
 Maine Certification #: 2023021
 Massachusetts Certification #: M-PA1457
 Missouri Certification #: 235
 Nebraska Certification #: NE-OS-29-14
 New Hampshire/TNI Certification #: 297622
 New Mexico Certification #: PA01457
 North Carolina Certification #: 42706
 Ohio EPA Rad Approval: #41249
 Pennsylvania/TNI Certification #: 65-00282
 Rhode Island Certification #: 65-00282
 Tennessee Certification #: TN02867
 Utah/TNI Certification #: PA014572223-14
 Vermont Dept. of Health: ID# VT-0282
 Virginia/VELAP Certification #: 460198
 West Virginia DEP Certification #: 143
 Wisconsin Approve List for Rad

ANAB DOD-ELAP Rad Accreditation #: L2417
 Alabama Certification #: 41590
 Arkansas Certification
 Colorado Certification #: PA01547
 EPA Region 4 DW Rad
 Georgia Certification #: C040
 Hawaii Certification
 Illinois Certification
 Iowa Certification #: 391
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0000221
 Louisiana DEQ/TNI Certification #: 04086
 Maryland Certification #: 308
 Michigan/PADEP Certification #: 9991
 Montana Certification #: Cert0082
 Nevada Certification #: PA014572023-03
 New Jersey/TNI Certification #: PA051
 New York/TNI Certification #: 10888
 North Dakota Certification #: R-190
 Oregon/TNI Certification #: PA200002-015
 Puerto Rico Certification #: PA01457
 South Dakota Certification
 Texas/TNI Certification #: T104704188-22-18
 USDA Soil Permit #: 525-23-67-77263
 Virgin Island/PADEP Certification
 Washington Certification #: C868
 West Virginia DHHR Certification #: 9964C

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
 Indiana Drinking Water Laboratory #: C-49-06
 Kentucky UST Agency Interest #: 80226
 Louisiana Certification #: 04076
 Oklahoma Laboratory #: 9204
 Washington Dept of Ecology #: C1081
 USDA Foreign Soil Permit #: 525-23-13-23119

Illinois Accreditation #: 200074
 Kansas/TNI Certification #: E-10177
 Kentucky WW Laboratory ID #: 98019
 Michigan Drinking Water Laboratory #9050
 Texas Certification #: T104704355
 Wisconsin Laboratory #: 999788130
 USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Table with 5 columns: Lab ID, Sample ID, Matrix, Date Collected, Date Received. Contains 30 rows of sample data.

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767001	AR-AQMW010D-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767002	AR-AQMW010S-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767003	AR-AQSW010-20001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767004	AR-AQMW06D-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767



Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767005	AR-AQMW06S-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767006	AR-AQMW07D-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767007	AR-AQMW07S-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767008	AR-AQMW011D-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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Date: 10/06/2025 04:14 PM



SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767



Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767009	AR-AQMW011S-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767010	AR-AQMW012D-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767011	AR-AQMW012S-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767012	AR-AQMW013D-60001	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767



Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767013	AR-AQMW013S-60001	EPA 9056	GLT, MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767014	AR-AQMW014D-60001	EPA 9056	GLT, MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767015	AR-AQMW014S-60001	EPA 9056	GLT, MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767016	Duplicate	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767



Table with 6 columns: Lab ID, Sample ID, Method, Analysts, Analytes Reported, Laboratory. It lists analytical data for four sample IDs (AR-AQMW01D-60001, AR-AQMW01S-60001, AR-AQMW02D-60001, AR-AQMW02S-60001) across various methods and analysts.

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767



Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50412306005	AR-AQMW03D-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306006	AR-AQMW03Sa-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306007	AR-AQMW04D-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306008	AR-AQMW04S-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767



Table with 6 columns: Lab ID, Sample ID, Method, Analysts, Analytes Reported, Laboratory. It lists multiple samples and their corresponding analytical methods and results.

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50412313002	AR-AQMW08S-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313003	AR-AQMW09D-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313004	AR-AQMW09S-60001	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313005	Field Blank	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50411767001	AR-AQMW010D-60001							
EPA 9056	Chloride			18.8	mg/L	0.25	09/11/25 16:37	
EPA 9056	Fluoride			0.13	mg/L	0.10	09/11/25 16:37	
EPA 9056	Sulfate			27.2	mg/L	0.25	09/11/25 16:37	
EPA 6010	Calcium			60800	ug/L	1000	09/11/25 09:54	
EPA 6020	Barium			0.026	mg/L	0.0010	09/11/25 05:17	
EPA 6020	Boron			0.059	mg/L	0.0050	09/11/25 05:17	N2
EPA 903.1	Radium-226			0.106 ± 0.330 (0.639) C:NA T:97%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228			0.785 ± 0.414 (0.747) C:87% T:89%	pCi/L		09/30/25 11:30	
Total Radium Calculation	Total Radium			0.891 ± 0.744 (1.39)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids			253	mg/L	10.0	09/08/25 09:38	
50411767002	AR-AQMW010S-60001							
EPA 9056	Chloride			34.5	mg/L	2.5	09/11/25 17:46	
EPA 9056	Sulfate			63.1	mg/L	2.5	09/11/25 17:46	
EPA 6010	Calcium			71700	ug/L	1000	09/11/25 09:56	
EPA 6020	Barium			0.017	mg/L	0.0010	09/11/25 05:21	
EPA 6020	Boron			0.044	mg/L	0.0050	09/11/25 05:21	N2
EPA 6020	Cobalt			0.0010	mg/L	0.0010	09/11/25 05:21	
EPA 6020	Molybdenum			0.0011	mg/L	0.0010	09/11/25 05:21	
EPA 6020	Selenium			0.0012	mg/L	0.0010	09/11/25 05:21	
EPA 903.1	Radium-226			0.346 ± 0.324 (0.459) C:NA T:99%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228			0.458 ± 0.368 (0.722) C:79% T:79%	pCi/L		10/03/25 12:20	
Total Radium Calculation	Total Radium			0.804 ± 0.692 (1.18)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids			328	mg/L	10.0	09/08/25 09:39	
50411767003	AR-AQSW010-20001							
EPA 9056	Chloride			7.8	mg/L	0.25	09/11/25 18:55	
EPA 9056	Fluoride			0.17	mg/L	0.10	09/11/25 18:55	
EPA 9056	Sulfate			58.7	mg/L	2.5	09/11/25 19:12	
EPA 6010	Calcium			61500	ug/L	1000	09/11/25 10:02	
EPA 6020	Arsenic			0.0014	mg/L	0.0010	09/11/25 05:25	
EPA 6020	Barium			0.063	mg/L	0.0010	09/11/25 05:25	
EPA 6020	Boron			0.047	mg/L	0.0050	09/11/25 05:25	N2
EPA 6020	Molybdenum			0.0066	mg/L	0.0010	09/11/25 05:25	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.425 ± 0.361 (0.447) C:NA T:90%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.808 ± 0.389 (0.654) C:80% T:75%	pCi/L		10/03/25 12:21	
Total Radium Calculation	Total Radium	1.23 ± 0.750 (1.10)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	264	mg/L	10.0	09/08/25 09:40	
50411767004	AR-AQMW06D-60001					
EPA 9056	Chloride	11.1	mg/L	0.25	09/11/25 19:46	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/11/25 19:46	
EPA 9056	Sulfate	78.5	mg/L	2.5	09/11/25 20:03	
EPA 6010	Calcium	64500	ug/L	1000	09/11/25 10:04	
EPA 6020	Arsenic	0.0018	mg/L	0.0010	09/11/25 05:36	
EPA 6020	Barium	0.028	mg/L	0.0010	09/11/25 05:36	
EPA 6020	Boron	0.022	mg/L	0.0050	09/11/25 05:36	N2
EPA 6020	Molybdenum	0.0048	mg/L	0.0010	09/11/25 05:36	
EPA 903.1	Radium-226	0.284 ± 0.297 (0.419) C:NA T:95%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.518 ± 0.370 (0.722) C:85% T:91%	pCi/L		09/30/25 11:28	
Total Radium Calculation	Total Radium	0.802 ± 0.667 (1.14)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	275	mg/L	10.0	09/08/25 09:40	
50411767005	AR-AQMW06S-60001					
EPA 9056	Chloride	13.6	mg/L	0.25	09/11/25 20:38	
EPA 9056	Sulfate	111	mg/L	2.5	09/11/25 20:55	
EPA 6010	Calcium	39300	ug/L	1000	09/11/25 10:06	
EPA 6020	Barium	0.033	mg/L	0.0010	09/11/25 06:04	
EPA 6020	Boron	0.045	mg/L	0.0050	09/11/25 06:04	N2
EPA 6020	Cadmium	0.00039	mg/L	0.00020	09/11/25 06:04	
EPA 6020	Cobalt	0.0096	mg/L	0.0010	09/11/25 06:04	
EPA 903.1	Radium-226	0.260 ± 0.307 (0.482) C:NA T:94%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.809 ± 0.454 (0.822) C:73% T:87%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.07 ± 0.761 (1.30)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	221	mg/L	10.0	09/08/25 09:40	
50411767006	AR-AQMW07D-60001					
EPA 9056	Chloride	19.0	mg/L	0.25	09/11/25 23:46	
EPA 9056	Fluoride	0.16	mg/L	0.10	09/11/25 23:46	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 9056	Sulfate	95.7	mg/L	2.5	09/12/25 00:04	
EPA 6010	Calcium	84300	ug/L	1000	09/11/25 10:08	
EPA 6020	Arsenic	0.011	mg/L	0.0010	09/11/25 06:08	
EPA 6020	Barium	0.039	mg/L	0.0010	09/11/25 06:08	
EPA 6020	Boron	0.036	mg/L	0.0050	09/11/25 06:08	N2
EPA 6020	Molybdenum	0.0043	mg/L	0.0010	09/11/25 06:08	
EPA 903.1	Radium-226	0.109 ± 0.249 (0.401) C:NA T:98%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.947 ± 0.451 (0.758) C:74% T:86%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.06 ± 0.700 (1.16)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	378	mg/L	10.0	09/10/25 11:02	
50411767007	AR-AQMW07S-60001					
EPA 9056	Chloride	4.9	mg/L	0.25	09/12/25 01:12	
EPA 9056	Fluoride	0.24	mg/L	0.10	09/12/25 01:12	
EPA 9056	Sulfate	221	mg/L	2.5	09/12/25 01:29	
EPA 6010	Calcium	88400	ug/L	1000	09/11/25 10:11	
EPA 6020	Antimony	0.0012	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Arsenic	0.0015	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Barium	0.092	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Boron	0.034	mg/L	0.0050	09/11/25 06:12	N2
EPA 6020	Cobalt	0.0024	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Molybdenum	0.0038	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Selenium	0.0013	mg/L	0.0010	09/11/25 06:12	
EPA 903.1	Radium-226	0.000 ± 0.364 (0.756) C:NA T:95%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.498 ± 0.337 (0.633) C:77% T:90%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	0.498 ± 0.701 (1.39)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	466	mg/L	10.0	09/10/25 11:02	
50411767008	AR-AQMW011D-60001					
EPA 9056	Chloride	74.0	mg/L	2.5	09/12/25 02:21	
EPA 9056	Fluoride	0.13	mg/L	0.10	09/12/25 02:04	
EPA 9056	Sulfate	1060	mg/L	25.0	09/12/25 02:38	
EPA 6010	Calcium	111000	ug/L	1000	09/11/25 10:13	
EPA 6020	Barium	0.052	mg/L	0.0010	09/11/25 07:42	
EPA 6020	Boron	0.73	mg/L	0.025	09/11/25 07:19	N2
EPA 6020	Molybdenum	0.0044	mg/L	0.0010	09/11/25 07:42	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.529 ± 0.552 (0.882) C:NA T:96%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.870 ± 0.422 (0.705) C:75% T:85%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.40 ± 0.974 (1.59)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	1870	mg/L	40.0	09/10/25 11:03	
50411767009	AR-AQMW011S-60001					
EPA 9056	Chloride	9.7	mg/L	0.25	09/12/25 02:55	
EPA 9056	Fluoride	0.27	mg/L	0.10	09/12/25 02:55	
EPA 9056	Sulfate	46.8	mg/L	2.5	09/12/25 03:12	
EPA 6010	Calcium	69900	ug/L	1000	09/11/25 10:15	
EPA 6020	Barium	0.053	mg/L	0.0010	09/11/25 06:28	
EPA 6020	Boron	0.067	mg/L	0.0050	09/11/25 06:28	N2
EPA 6020	Cobalt	0.0012	mg/L	0.0010	09/11/25 06:28	
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	09/11/25 06:28	
EPA 903.1	Radium-226	0.340 ± 0.289 (0.358) C:NA T:97%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.812 ± 0.444 (0.800) C:75% T:89%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.15 ± 0.733 (1.16)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	339	mg/L	10.0	09/10/25 11:03	
50411767010	AR-AQMW012D-60001					
EPA 9056	Chloride	110	mg/L	2.5	09/12/25 04:38	
EPA 9056	Fluoride	0.20	mg/L	0.10	09/12/25 04:21	
EPA 9056	Sulfate	1470	mg/L	25.0	09/12/25 04:55	
EPA 6010	Calcium	135000	ug/L	1000	09/11/25 10:17	
EPA 6020	Barium	0.028	mg/L	0.0010	09/11/25 07:50	
EPA 6020	Boron	0.96	mg/L	0.050	09/11/25 06:32	N2
EPA 6020	Molybdenum	0.031	mg/L	0.0010	09/11/25 07:50	
EPA 903.1	Radium-226	0.0520 ± 0.270 (0.560) C:NA T:95%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.526 ± 0.546 (1.14) C:76% T:84%	pCi/L		09/30/25 16:13	
Total Radium Calculation	Total Radium	0.578 ± 0.816 (1.70)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	2480	mg/L	40.0	09/10/25 11:03	
50411767011	AR-AQMW012S-60001					
EPA 9056	Chloride	11.9	mg/L	0.25	09/12/25 05:13	
EPA 9056	Fluoride	0.44	mg/L	0.10	09/12/25 05:13	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
EPA 9056	Sulfate	40.8	mg/L	0.25	09/12/25 05:13	
EPA 6010	Calcium	50600	ug/L	1000	09/11/25 10:19	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	09/11/25 06:36	
EPA 6020	Barium	0.055	mg/L	0.0010	09/11/25 06:36	
EPA 6020	Boron	0.11	mg/L	0.0050	09/11/25 06:36	N2
EPA 6020	Molybdenum	0.017	mg/L	0.0010	09/11/25 06:36	
EPA 6020	Selenium	0.0012	mg/L	0.0010	09/11/25 06:36	
EPA 903.1	Radium-226	0.263 ± 0.372 (0.631) C:NA T:93%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.895 ± 0.500 (0.907) C:78% T:86%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	1.16 ± 0.872 (1.54)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	237	mg/L	10.0	09/10/25 11:04	
50411767012	AR-AQMW013D-60001					
EPA 9056	Chloride	80.4	mg/L	2.5	09/12/25 06:21	
EPA 9056	Fluoride	0.29	mg/L	0.10	09/12/25 06:04	
EPA 9056	Sulfate	868	mg/L	25.0	09/12/25 06:38	
EPA 6010	Calcium	52400	ug/L	1000	09/11/25 10:21	
EPA 6020	Antimony	0.0045	mg/L	0.0010	09/11/25 07:58	
EPA 6020	Barium	0.045	mg/L	0.0010	09/11/25 07:58	
EPA 6020	Boron	1.1	mg/L	0.10	09/11/25 07:23	N2
EPA 6020	Molybdenum	0.16	mg/L	0.0010	09/11/25 07:58	
EPA 903.1	Radium-226	0.412 ± 0.381 (0.555) C:NA T:94%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.346 ± 0.400 (0.839) C:79% T:82%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.758 ± 0.781 (1.39)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	1600	mg/L	20.0	09/08/25 09:41	
50411767013	AR-AQMW013S-60001					
EPA 9056	Chloride	14.5	mg/L	0.25	09/12/25 07:30	
EPA 9056	Fluoride	0.24	mg/L	0.10	09/12/25 07:30	
EPA 9056	Sulfate	75.7	mg/L	2.5	09/17/25 22:01	
EPA 6010	Calcium	56700	ug/L	1000	09/11/25 10:27	
EPA 6020	Arsenic	0.0033	mg/L	0.0010	09/11/25 06:51	
EPA 6020	Barium	0.072	mg/L	0.0010	09/11/25 06:51	
EPA 6020	Boron	0.052	mg/L	0.0050	09/11/25 06:51	N2
EPA 6020	Cobalt	0.0088	mg/L	0.0010	09/11/25 06:51	
EPA 6020	Molybdenum	0.0082	mg/L	0.0010	09/11/25 06:51	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.112 ± 0.466 (0.888) C:NA T:89%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.687 ± 0.438 (0.823) C:73% T:85%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.799 ± 0.904 (1.71)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	283	mg/L	10.0	09/08/25 09:41	
50411767014	AR-AQMW014D-60001					
EPA 9056	Chloride	15.6	mg/L	0.25	09/12/25 08:21	
EPA 9056	Fluoride	0.17	mg/L	0.10	09/12/25 08:21	
EPA 9056	Sulfate	81.9	mg/L	2.5	09/17/25 22:18	
EPA 6010	Calcium	86800	ug/L	1000	09/11/25 10:29	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	09/11/25 06:55	
EPA 6020	Barium	0.028	mg/L	0.0010	09/11/25 06:55	
EPA 6020	Boron	0.037	mg/L	0.0050	09/11/25 06:55	N2
EPA 6020	Molybdenum	0.0091	mg/L	0.0010	09/11/25 06:55	
EPA 903.1	Radium-226	-0.204 ± 0.424 (0.923) C:NA T:101%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.496 ± 0.372 (0.727) C:80% T:90%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.496 ± 0.796 (1.65)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	364	mg/L	10.0	09/08/25 09:41	
50411767015	AR-AQMW014S-60001					
EPA 9056	Chloride	14.5	mg/L	0.25	09/12/25 14:25	
EPA 9056	Fluoride	0.19	mg/L	0.10	09/12/25 14:25	
EPA 9056	Sulfate	75.5	mg/L	2.5	09/17/25 22:34	
EPA 6010	Calcium	40700	ug/L	1000	09/11/25 10:32	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	09/11/25 06:59	
EPA 6020	Barium	0.10	mg/L	0.0010	09/11/25 06:59	
EPA 6020	Boron	0.032	mg/L	0.0050	09/11/25 06:59	N2
EPA 6020	Cadmium	0.00021	mg/L	0.00020	09/11/25 06:59	
EPA 6020	Cobalt	0.036	mg/L	0.0010	09/11/25 06:59	
EPA 6020	Molybdenum	0.0016	mg/L	0.0010	09/11/25 06:59	
EPA 903.1	Radium-226	0.978 ± 0.671 (0.968) C:NA T:95%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.557 ± 0.409 (0.789) C:74% T:86%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	1.54 ± 1.08 (1.76)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	245	mg/L	10.0	09/08/25 09:42	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
50411767016	Duplicate					
EPA 9056	Chloride	20.7	mg/L	0.25	09/17/25 23:25	
EPA 9056	Fluoride	0.14	mg/L	0.10	09/17/25 23:25	
EPA 9056	Sulfate	25.5	mg/L	0.25	09/17/25 23:25	
EPA 6010	Calcium	59800	ug/L	1000	09/11/25 10:34	
EPA 6020	Barium	0.025	mg/L	0.0010	09/11/25 07:03	
EPA 6020	Boron	0.070	mg/L	0.0050	09/11/25 07:03	N2
EPA 6020	Molybdenum	0.0011	mg/L	0.0010	09/11/25 07:03	
EPA 903.1	Radium-226	0.0546 ± 0.249 (0.507) C:NA T:98%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.0685 ± 0.381 (0.873) C:73% T:86%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.123 ± 0.630 (1.38)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	254	mg/L	10.0	09/08/25 09:42	
50412306001	AR-AQMW01D-60001					
EPA 9056	Chloride	13.6	mg/L	0.25	09/15/25 14:40	
EPA 9056	Fluoride	0.27	mg/L	0.10	09/15/25 14:40	
EPA 9056	Sulfate	51.8	mg/L	2.5	09/15/25 14:57	
EPA 6010	Calcium	77100	ug/L	1000	09/16/25 14:34	
EPA 6020	Barium	0.031	mg/L	0.0010	09/17/25 02:59	
EPA 6020	Boron	6.9	mg/L	0.50	09/18/25 00:29	1d,N2
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	09/17/25 02:59	
EPA 903.1	Radium-226	0.0881 ± 0.244 (0.474) C:NA T:110%	pCi/L		09/29/25 16:35	
EPA 904.0	Radium-228	0.818 ± 0.431 (0.755) C:78% T:85%	pCi/L		09/25/25 14:38	
Total Radium Calculation	Total Radium	0.906 ± 0.675 (1.23)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	351	mg/L	10.0	09/17/25 08:42	
50412306002	AR-AQMW01S-60001					
EPA 9056	Chloride	4.4	mg/L	0.25	09/15/25 15:31	
EPA 9056	Sulfate	35.6	mg/L	0.25	09/15/25 15:31	
EPA 6010	Calcium	40300	ug/L	1000	09/16/25 14:45	
EPA 6020	Barium	0.011	mg/L	0.0010	09/17/25 03:03	
EPA 6020	Boron	0.18	mg/L	0.025	09/18/25 00:32	1d,N2
EPA 6020	Molybdenum	0.022	mg/L	0.0010	09/17/25 03:03	
EPA 6020	Selenium	0.0054	mg/L	0.0010	09/17/25 03:03	
EPA 903.1	Radium-226	0.000 ± 0.304 (0.631) C:NA T:98%	pCi/L		09/29/25 16:35	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 904.0	Radium-228	0.504 ± 0.365 (0.705) C:77% T:89%	pCi/L		09/25/25 14:38	
Total Radium Calculation	Total Radium	0.504 ± 0.669 (1.34)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	165	mg/L	10.0	09/17/25 08:43	
50412306003	AR-AQMW02D-60001					
EPA 9056	Chloride	30.0	mg/L	2.5	09/15/25 17:11	
EPA 9056	Fluoride	1.1	mg/L	0.10	09/15/25 16:55	
EPA 9056	Sulfate	780	mg/L	25.0	09/15/25 17:28	
EPA 6010	Calcium	68600	ug/L	1000	09/16/25 14:47	
EPA 6010	Lithium	24.8	ug/L	20.0	09/16/25 14:47	
EPA 6020	Barium	0.039	mg/L	0.0010	09/17/25 03:07	
EPA 6020	Boron	10.5	mg/L	1.0	09/18/25 00:37	1d,N2
EPA 6020	Molybdenum	1.3	mg/L	0.010	09/18/25 05:28	
EPA 903.1	Radium-226	0.187 ± 0.367 (0.659) C:NA T:96%	pCi/L		09/29/25 16:35	
EPA 904.0	Radium-228	1.17 ± 0.562 (1.00) C:77% T:83%	pCi/L		09/25/25 12:21	
Total Radium Calculation	Total Radium	1.36 ± 0.929 (1.66)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	1500	mg/L	20.0	09/25/25 09:52	H1
50412306004	AR-AQMW02S-60001					
EPA 9056	Chloride	3.4	mg/L	0.25	09/15/25 17:45	
EPA 9056	Fluoride	0.43	mg/L	0.10	09/15/25 17:45	
EPA 9056	Sulfate	332	mg/L	2.5	09/15/25 18:02	
EPA 6010	Calcium	137000	ug/L	1000	09/16/25 14:49	
EPA 6020	Arsenic	0.0047	mg/L	0.0010	09/17/25 03:10	
EPA 6020	Barium	0.098	mg/L	0.0010	09/17/25 03:10	
EPA 6020	Boron	3.3	mg/L	0.25	09/18/25 00:41	1d,N2
EPA 6020	Molybdenum	0.026	mg/L	0.0010	09/17/25 03:10	
EPA 903.1	Radium-226	0.719 ± 0.383 (0.331) C:NA T:99%	pCi/L		09/29/25 16:35	
EPA 904.0	Radium-228	1.10 ± 0.518 (0.923) C:82% T:89%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	1.82 ± 0.901 (1.25)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	627	mg/L	10.0	09/25/25 09:52	H1
50412306005	AR-AQMW03D-60001					
EPA 9056	Chloride	729	mg/L	25.0	09/15/25 19:09	
EPA 9056	Sulfate	12500	mg/L	250	09/19/25 21:06	
EPA 6010	Calcium	284000	ug/L	2000	09/16/25 15:31	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
EPA 6010	Lithium	65.9	ug/L	20.0	09/16/25 14:55	
EPA 6020	Arsenic	0.0021	mg/L	0.0010	09/17/25 03:22	
EPA 6020	Barium	0.029	mg/L	0.0010	09/17/25 03:22	
EPA 6020	Boron	12.0	mg/L	1.0	09/18/25 00:53	N2
EPA 6020	Molybdenum	0.32	mg/L	0.0030	09/18/25 05:32	
EPA 6020	Selenium	0.0032	mg/L	0.0010	09/17/25 03:22	
EPA 903.1	Radium-226	0.408 ± 0.271 (0.123) C:NA T:101%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	4.75 ± 1.08 (0.869) C:82% T:87%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	5.16 ± 1.35 (0.992)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	20100	mg/L	333	09/25/25 09:53	H1
50412306006 AR-AQMW03Sa-60001						
EPA 9056	Chloride	2.0	mg/L	0.25	09/15/25 19:59	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/15/25 19:59	
EPA 9056	Sulfate	233	mg/L	2.5	09/15/25 20:16	
EPA 6010	Calcium	134000	ug/L	1000	09/16/25 14:57	
EPA 6020	Arsenic	0.0073	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Barium	0.078	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Boron	1.6	mg/L	0.10	09/18/25 00:56	N2
EPA 6020	Cobalt	0.0015	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Molybdenum	0.026	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Selenium	0.0018	mg/L	0.0010	09/17/25 03:26	
EPA 903.1	Radium-226	0.879 ± 0.453 (0.380) C:NA T:93%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.01 ± 0.524 (0.957) C:77% T:84%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	1.89 ± 0.977 (1.34)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	572	mg/L	10.0	09/25/25 09:53	H1
50412306007 AR-AQMW04D-60001						
EPA 9056	Chloride	110	mg/L	2.5	09/15/25 21:07	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/15/25 20:50	
EPA 9056	Sulfate	1780	mg/L	25.0	09/15/25 21:23	
EPA 6010	Calcium	235000	ug/L	2000	09/16/25 15:34	
EPA 6010	Lithium	20.4	ug/L	20.0	09/16/25 15:00	
EPA 6020	Barium	0.044	mg/L	0.0010	09/17/25 03:30	
EPA 6020	Boron	5.2	mg/L	0.50	09/18/25 01:00	N2
EPA 6020	Molybdenum	1.5	mg/L	0.010	09/18/25 05:40	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	1.29 ± 0.543 (0.444) C:NA T:97%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.88 ± 0.594 (0.791) C:81% T:87%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	3.17 ± 1.14 (1.24)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	2970	mg/L	40.0	09/17/25 08:43	
50412306008	AR-AQMW04S-60001					
EPA 9056	Chloride	11.1	mg/L	0.25	09/15/25 21:40	
EPA 9056	Fluoride	0.27	mg/L	0.10	09/15/25 21:40	
EPA 9056	Sulfate	363	mg/L	2.5	09/15/25 21:57	
EPA 6010	Calcium	108000	ug/L	1000	09/16/25 15:02	
EPA 6020	Arsenic	0.0054	mg/L	0.0010	09/17/25 03:34	
EPA 6020	Barium	0.036	mg/L	0.0010	09/17/25 03:34	
EPA 6020	Boron	2.0	mg/L	0.25	09/18/25 01:04	N2
EPA 6020	Molybdenum	0.13	mg/L	0.0010	09/17/25 03:34	
EPA 903.1	Radium-226	0.479 ± 0.581 (0.963) C:NA T:99%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.10 ± 0.522 (0.912) C:79% T:88%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	1.58 ± 1.10 (1.88)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	747	mg/L	10.0	09/17/25 08:44	
50412306009	AR-AQMW05D-60001					
EPA 9056	Chloride	683	mg/L	25.0	09/17/25 20:37	
EPA 9056	Sulfate	4850	mg/L	250	09/17/25 20:54	
EPA 6010	Calcium	457000	ug/L	3000	09/16/25 15:36	
EPA 6010	Lithium	40.5	ug/L	20.0	09/16/25 15:04	
EPA 6020	Barium	0.067	mg/L	0.0010	09/17/25 03:50	
EPA 6020	Boron	13.9	mg/L	1.0	09/18/25 01:20	N2
EPA 6020	Molybdenum	2.6	mg/L	0.020	09/18/25 05:51	
EPA 903.1	Radium-226	1.45 ± 0.592 (0.520) C:NA T:102%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	3.48 ± 0.856 (0.804) C:80% T:88%	pCi/L		09/25/25 12:21	
Total Radium Calculation	Total Radium	4.93 ± 1.45 (1.32)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	8100	mg/L	100	09/17/25 08:44	
50412306010	AR-AQMW05S-60001					
EPA 9056	Chloride	7.2	mg/L	0.25	09/17/25 21:11	
EPA 9056	Fluoride	0.30	mg/L	0.10	09/17/25 21:11	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 9056			Sulfate	461	mg/L	2.5	09/17/25 21:27	
EPA 6010			Calcium	197000	ug/L	1000	09/16/25 15:06	
EPA 6020			Arsenic	0.0040	mg/L	0.0010	09/17/25 03:54	
EPA 6020			Barium	0.22	mg/L	0.0020	09/18/25 05:55	
EPA 6020			Boron	2.5	mg/L	0.25	09/18/25 01:24	N2
EPA 6020			Molybdenum	0.037	mg/L	0.0010	09/17/25 03:54	
EPA 903.1			Radium-226	0.649 ± 0.475 (0.655) C:NA T:97%	pCi/L		09/29/25 16:48	
EPA 904.0			Radium-228	1.68 ± 0.558 (0.783) C:79% T:88%	pCi/L		09/25/25 12:21	
Total Radium Calculation			Total Radium	2.33 ± 1.03 (1.44)	pCi/L		09/29/25 17:52	
SM 2540C			Total Dissolved Solids	908	mg/L	10.0	09/17/25 08:44	
50412306011	AR-AQSW004-20001							
EPA 9056			Chloride	26.8	mg/L	2.5	09/17/25 21:44	
EPA 9056			Fluoride	0.52	mg/L	0.10	09/16/25 00:45	
EPA 9056			Sulfate	480	mg/L	2.5	09/17/25 21:44	
EPA 6010			Calcium	72500	ug/L	1000	09/16/25 15:08	
EPA 6020			Arsenic	0.0016	mg/L	0.0010	09/17/25 03:58	
EPA 6020			Barium	0.038	mg/L	0.0010	09/17/25 03:58	
EPA 6020			Boron	3.3	mg/L	0.25	09/18/25 01:28	N2
EPA 6020			Molybdenum	0.31	mg/L	0.0020	09/18/25 05:59	
EPA 903.1			Radium-226	0.437 ± 0.342 (0.402) C:NA T:89%	pCi/L		09/29/25 16:48	
EPA 904.0			Radium-228	1.19 ± 0.500 (0.822) C:83% T:80%	pCi/L		09/25/25 12:21	
Total Radium Calculation			Total Radium	1.63 ± 0.842 (1.22)	pCi/L		09/29/25 17:52	
SM 2540C			Total Dissolved Solids	890	mg/L	10.0	09/25/25 09:54	H1
50412313001	AR-AQMW08D-60001							
EPA 9056			Chloride	7.7	mg/L	0.25	09/13/25 03:10	
EPA 9056			Fluoride	0.17	mg/L	0.10	09/13/25 03:10	
EPA 9056			Sulfate	26.5	mg/L	0.25	09/13/25 03:10	
EPA 6010			Calcium	49800	ug/L	1000	09/16/25 15:10	
EPA 6020			Barium	0.040	mg/L	0.0010	09/17/25 04:01	
EPA 6020			Boron	0.37	mg/L	0.050	09/18/25 01:32	N2
EPA 6020			Molybdenum	0.0024	mg/L	0.0010	09/17/25 04:01	
EPA 903.1			Radium-226	0.482 ± 0.548 (0.892) C:NA T:94%	pCi/L		10/01/25 12:56	
EPA 904.0			Radium-228	0.218 ± 0.340 (0.735) C:80% T:89%	pCi/L		09/29/25 15:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
Total Radium Calculation	Total Radium	0.700 ± 0.888 (1.63)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	229	mg/L	10.0	09/17/25 09:14	
50412313002	AR-AQMW08S-60001					
EPA 9056	Chloride	5.3	mg/L	0.25	09/13/25 04:34	
EPA 9056	Sulfate	28.5	mg/L	0.25	09/13/25 04:34	
EPA 6010	Calcium	28500	ug/L	1000	09/16/25 15:12	
EPA 6020	Barium	0.0042	mg/L	0.0010	09/17/25 04:13	
EPA 6020	Boron	0.029	mg/L	0.0050	09/18/25 01:44	N2
EPA 903.1	Radium-226	0.420 ± 0.295 (0.142) C:NA T:93%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.830 ± 0.434 (0.753) C:80% T:81%	pCi/L		09/29/25 15:38	
Total Radium Calculation	Total Radium	1.25 ± 0.729 (0.895)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	130	mg/L	10.0	09/17/25 09:14	
50412313003	AR-AQMW09D-60001					
EPA 9056	Chloride	17.8	mg/L	0.25	09/13/25 05:24	
EPA 9056	Fluoride	0.41	mg/L	0.10	09/13/25 05:24	
EPA 9056	Sulfate	1.8	mg/L	0.25	09/13/25 05:24	
EPA 6010	Calcium	44000	ug/L	1000	09/16/25 15:14	
EPA 6010	Lithium	43.8	ug/L	20.0	09/16/25 15:14	
EPA 6020	Barium	0.047	mg/L	0.0010	09/17/25 04:17	
EPA 6020	Boron	1.6	mg/L	0.10	09/18/25 01:48	N2
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	09/17/25 04:17	
EPA 903.1	Radium-226	0.724 ± 0.421 (0.449) C:NA T:95%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.438 ± 0.385 (0.778) C:80% T:87%	pCi/L		09/29/25 15:39	
Total Radium Calculation	Total Radium	1.16 ± 0.806 (1.23)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	318	mg/L	10.0	09/17/25 09:14	
50412313004	AR-AQMW09S-60001					
EPA 9056	Chloride	16.3	mg/L	0.25	09/13/25 06:14	
EPA 9056	Fluoride	0.41	mg/L	0.10	09/13/25 06:14	
EPA 9056	Sulfate	45.4	mg/L	2.5	09/13/25 06:31	
EPA 6010	Calcium	54600	ug/L	1000	09/16/25 15:21	
EPA 6020	Barium	0.049	mg/L	0.0010	09/17/25 04:21	
EPA 6020	Boron	0.025	mg/L	0.0050	09/18/25 01:52	N2
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	09/17/25 04:21	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.257 ± 0.581 (1.04) C:NA T:95%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.539 ± 0.384 (0.740) C:71% T:91%	pCi/L		09/29/25 15:39	
Total Radium Calculation	Total Radium	0.796 ± 0.965 (1.78)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	279	mg/L	10.0	09/17/25 09:14	
50412313005	Field Blank					
EPA 903.1	Radium-226	-0.258 ± 0.441 (0.969) C:NA T:99%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.252 ± 0.302 (0.634) C:80% T:89%	pCi/L		09/29/25 15:39	
Total Radium Calculation	Total Radium	0.252 ± 0.743 (1.60)	pCi/L		10/01/25 16:32	

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 9056
Description: 9056 IC Anions
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 862106

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50411767005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 3948889)
- Chloride

Additional Information:

Analyte Comments:

QC Batch: 862517

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- AR-AQMWO3D-60001 (Lab ID: 50412306005)
- Fluoride

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 6010
Description: 6010 MET ICP
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

Analyte Comments:

QC Batch: 861536

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3946844)

- Calcium

- MSD (Lab ID: 3946845)

- Calcium

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 6020
Description: 6020 MET ICPMS
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 200.2 with any exceptions noted below.
The samples were prepared in accordance with EPA 200.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 862825

CC: The continuing calibration for this compound is outside of method control limits. The result is estimated.

- MS (Lab ID: 3952339)
 - Beryllium
- MS (Lab ID: 3952339)
 - Boron
- MSD (Lab ID: 3952340)
 - Beryllium
- MSD (Lab ID: 3952340)
 - Boron

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 862825

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50412535001

P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

- MS (Lab ID: 3952339)
 - Boron
- MSD (Lab ID: 3952340)
 - Boron

Additional Information:

Analyte Comments:

QC Batch: 861811

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 6020
Description: 6020 MET ICPMS
Client: NiSource_Applied Geology
Date: October 06, 2025

Analyte Comments:

QC Batch: 861811

- AR-AQMW010D-60001 (Lab ID: 50411767001)
 - Boron
- AR-AQMW010S-60001 (Lab ID: 50411767002)
 - Boron
- AR-AQMW011D-60001 (Lab ID: 50411767008)
 - Boron
- AR-AQMW011S-60001 (Lab ID: 50411767009)
 - Boron
- AR-AQMW012D-60001 (Lab ID: 50411767010)
 - Boron
- AR-AQMW012S-60001 (Lab ID: 50411767011)
 - Boron
- AR-AQMW013D-60001 (Lab ID: 50411767012)
 - Boron
- AR-AQMW013S-60001 (Lab ID: 50411767013)
 - Boron
- AR-AQMW014D-60001 (Lab ID: 50411767014)
 - Boron
- AR-AQMW014S-60001 (Lab ID: 50411767015)
 - Boron
- AR-AQMW06D-60001 (Lab ID: 50411767004)
 - Boron
- AR-AQMW06S-60001 (Lab ID: 50411767005)
 - Boron
- AR-AQMW07D-60001 (Lab ID: 50411767006)
 - Boron
- AR-AQMW07S-60001 (Lab ID: 50411767007)
 - Boron
- AR-AQSW010-20001 (Lab ID: 50411767003)
 - Boron
- BLANK (Lab ID: 3947762)
 - Boron
- Duplicate (Lab ID: 50411767016)
 - Boron
- LCS (Lab ID: 3947763)
 - Boron
- MS (Lab ID: 3947764)
 - Boron
- MSD (Lab ID: 3947765)
 - Boron

QC Batch: 862825

1d: Analyte was detected in the continuing calibration blank. Analyte concentration is at least ten times that of the blank. MTM 9/18/25

- AR-AQMW01D-60001 (Lab ID: 50412306001)
 - Boron
- AR-AQMW01S-60001 (Lab ID: 50412306002)
 - Boron
- AR-AQMW02D-60001 (Lab ID: 50412306003)
 - Boron
- AR-AQMW02S-60001 (Lab ID: 50412306004)
 - Boron

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- AR-AQMW03Sa-60001 (Lab ID: 50412306006)

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 6020
Description: 6020 MET ICPMS
Client: NiSource_Applied Geology
Date: October 06, 2025

Analyte Comments:

QC Batch: 862825

- AR-AQMW03Sa-60001 (Lab ID: 50412306006)
 - Beryllium

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3952339)
 - Boron
- MSD (Lab ID: 3952340)
 - Boron

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

- AR-AQMW01D-60001 (Lab ID: 50412306001)
 - Boron
- AR-AQMW01S-60001 (Lab ID: 50412306002)
 - Boron
- AR-AQMW02D-60001 (Lab ID: 50412306003)
 - Boron
- AR-AQMW02S-60001 (Lab ID: 50412306004)
 - Boron
- AR-AQMW03D-60001 (Lab ID: 50412306005)
 - Boron
- AR-AQMW03Sa-60001 (Lab ID: 50412306006)
 - Boron
- AR-AQMW04D-60001 (Lab ID: 50412306007)
 - Boron
- AR-AQMW04S-60001 (Lab ID: 50412306008)
 - Boron
- AR-AQMW05D-60001 (Lab ID: 50412306009)
 - Boron
- AR-AQMW05S-60001 (Lab ID: 50412306010)
 - Boron
- AR-AQMW08D-60001 (Lab ID: 50412313001)
 - Boron
- AR-AQMW08S-60001 (Lab ID: 50412313002)
 - Boron
- AR-AQMW09D-60001 (Lab ID: 50412313003)
 - Boron
- AR-AQMW09S-60001 (Lab ID: 50412313004)
 - Boron
- AR-AQSW004-20001 (Lab ID: 50412306011)
 - Boron
- BLANK (Lab ID: 3952337)
 - Boron
- Field Blank (Lab ID: 50412313005)
 - Boron
- LCS (Lab ID: 3952338)
 - Boron
- MS (Lab ID: 3952339)
 - Boron
- MSD (Lab ID: 3952340)
 - Boron

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 7470
Description: 7470 Mercury
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470 with any exceptions noted below.
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 903.1
Description: 903.1 Radium 226
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: EPA 904.0
Description: 904.0 Radium 228
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: NiSource_Applied Geology

Date: October 06, 2025

General Information:

32 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Method: SM 2540C
Description: 2540C Total Dissolved Solids
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:

32 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.

- AR-AQMW02D-60001 (Lab ID: 50412306003)
- AR-AQMW02S-60001 (Lab ID: 50412306004)
- AR-AQMW03D-60001 (Lab ID: 50412306005)
- AR-AQMW03Sa-60001 (Lab ID: 50412306006)
- AR-AQSW004-20001 (Lab ID: 50412306011)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 861624

R1: RPD value was outside control limits.

- DUP (Lab ID: 3947139)
- Total Dissolved Solids

Additional Information:

Analyte Comments:

QC Batch: 863541

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

- Field Blank (Lab ID: 50412313005)
- Total Dissolved Solids

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW010D-60001 Lab ID: 50411767001 Collected: 09/03/25 08:00 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	18.8	mg/L	0.25	1		09/11/25 16:37	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		09/11/25 16:37	16984-48-8	
Sulfate	27.2	mg/L	0.25	1		09/11/25 16:37	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	60800	ug/L	1000	1	09/10/25 20:55	09/11/25 09:54	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 09:54	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-38-2	
Barium	0.026	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:17	7440-41-7	
Boron	0.059	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:17	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:17	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:17	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:30	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:30	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:09	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	253	mg/L	10.0	1		09/08/25 09:38		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW010S-60001 Lab ID: 50411767002 Collected: 09/03/25 09:02 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	34.5	mg/L	2.5	10		09/11/25 17:46	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/11/25 17:29	16984-48-8	
Sulfate	63.1	mg/L	2.5	10		09/11/25 17:46	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	71700	ug/L	1000	1	09/10/25 20:55	09/11/25 09:56	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 09:56	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-38-2	
Barium	0.017	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:21	7440-41-7	
Boron	0.044	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:21	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:21	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:21	7440-47-3	
Cobalt	0.0010	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:34	7439-92-1	
Molybdenum	0.0011	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7439-98-7	
Selenium	0.0012	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:34	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:11	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	328	mg/L	10.0	1		09/08/25 09:39		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQSW010-20001 Lab ID: 50411767003 Collected: 09/03/25 09:46 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	7.8	mg/L	0.25	1		09/11/25 18:55	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		09/11/25 18:55	16984-48-8	
Sulfate	58.7	mg/L	2.5	10		09/11/25 19:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	61500	ug/L	1000	1	09/10/25 20:55	09/11/25 10:02	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:02	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-36-0	
Arsenic	0.0014	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-38-2	
Barium	0.063	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:25	7440-41-7	
Boron	0.047	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:25	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:25	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:25	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:37	7439-92-1	
Molybdenum	0.0066	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:37	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:14	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	264	mg/L	10.0	1		09/08/25 09:40		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW06D-60001 Lab ID: 50411767004 Collected: 09/03/25 11:20 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	11.1	mg/L	0.25	1		09/11/25 19:46	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		09/11/25 19:46	16984-48-8	
Sulfate	78.5	mg/L	2.5	10		09/11/25 20:03	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	64500	ug/L	1000	1	09/10/25 20:55	09/11/25 10:04	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:04	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-36-0	
Arsenic	0.0018	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-38-2	
Barium	0.028	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:36	7440-41-7	
Boron	0.022	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:36	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:36	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:36	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:41	7439-92-1	
Molybdenum	0.0048	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:41	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:16	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	275	mg/L	10.0	1		09/08/25 09:40		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: **AR-AQMW06S-60001** Lab ID: **50411767005** Collected: 09/03/25 10:42 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis								
Chloride	13.6	mg/L	0.25	1		09/11/25 20:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/11/25 20:38	16984-48-8	
Sulfate	111	mg/L	2.5	10		09/11/25 20:55	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Calcium	39300	ug/L	1000	1	09/10/25 20:55	09/11/25 10:06	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:06	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-38-2	
Barium	0.033	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:04	7440-41-7	
Boron	0.045	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:04	7440-42-8	N2
Cadmium	0.00039	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:04	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:04	7440-47-3	
Cobalt	0.0096	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:27	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:27	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:18	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	221	mg/L	10.0	1		09/08/25 09:40		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW07D-60001 Lab ID: 50411767006 Collected: 09/04/25 09:30 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	19.0	mg/L	0.25	1		09/11/25 23:46	16887-00-6	
Fluoride	0.16	mg/L	0.10	1		09/11/25 23:46	16984-48-8	
Sulfate	95.7	mg/L	2.5	10		09/12/25 00:04	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	84300	ug/L	1000	1	09/10/25 20:55	09/11/25 10:08	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:08	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-36-0	
Arsenic	0.011	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-38-2	
Barium	0.039	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:08	7440-41-7	
Boron	0.036	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:08	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:08	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:08	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:31	7439-92-1	
Molybdenum	0.0043	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:31	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:40	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	378	mg/L	10.0	1		09/10/25 11:02		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW07S-60001 Lab ID: 50411767007 Collected: 09/04/25 09:25 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	4.9	mg/L	0.25	1		09/12/25 01:12	16887-00-6	
Fluoride	0.24	mg/L	0.10	1		09/12/25 01:12	16984-48-8	
Sulfate	221	mg/L	2.5	10		09/12/25 01:29	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	88400	ug/L	1000	1	09/10/25 20:55	09/11/25 10:11	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:11	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	0.0012	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-36-0	
Arsenic	0.0015	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-38-2	
Barium	0.092	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:12	7440-41-7	
Boron	0.034	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:12	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:12	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:12	7440-47-3	
Cobalt	0.0024	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:35	7439-92-1	
Molybdenum	0.0038	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7439-98-7	
Selenium	0.0013	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:35	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:43	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	466	mg/L	10.0	1		09/10/25 11:02		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW011D-60001 Lab ID: 50411767008 Collected: 09/04/25 12:00 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	74.0	mg/L	2.5	10		09/12/25 02:21	16887-00-6	
Fluoride	0.13	mg/L	0.10	1		09/12/25 02:04	16984-48-8	
Sulfate	1060	mg/L	25.0	100		09/12/25 02:38	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	111000	ug/L	1000	1	09/10/25 20:55	09/11/25 10:13	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:13	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-38-2	
Barium	0.052	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:42	7440-41-7	
Boron	0.73	mg/L	0.025	5	09/10/25 08:08	09/11/25 07:19	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:42	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:42	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:39	7439-92-1	
Molybdenum	0.0044	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:39	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:45	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1870	mg/L	40.0	1		09/10/25 11:03		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW011S-60001 Lab ID: 50411767009 Collected: 09/04/25 12:55 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	9.7	mg/L	0.25	1		09/12/25 02:55	16887-00-6	
Fluoride	0.27	mg/L	0.10	1		09/12/25 02:55	16984-48-8	
Sulfate	46.8	mg/L	2.5	10		09/12/25 03:12	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	69900	ug/L	1000	1	09/10/25 20:55	09/11/25 10:15	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:15	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-38-2	
Barium	0.053	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:28	7440-41-7	
Boron	0.067	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:28	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:28	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:28	7440-47-3	
Cobalt	0.0012	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:56	7439-92-1	
Molybdenum	0.0024	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:56	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:48	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	339	mg/L	10.0	1		09/10/25 11:03		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW012D-60001 Lab ID: 50411767010 Collected: 09/04/25 10:20 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	110	mg/L	2.5	10		09/12/25 04:38	16887-00-6	
Fluoride	0.20	mg/L	0.10	1		09/12/25 04:21	16984-48-8	
Sulfate	1470	mg/L	25.0	100		09/12/25 04:55	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	135000	ug/L	1000	1	09/10/25 20:55	09/11/25 10:17	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:17	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-38-2	
Barium	0.028	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:50	7440-41-7	
Boron	0.96	mg/L	0.050	10	09/10/25 08:08	09/11/25 06:32	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:50	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:50	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:59	7439-92-1	
Molybdenum	0.031	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:59	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:55	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2480	mg/L	40.0	1		09/10/25 11:03		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW012S-60001 Lab ID: 50411767011 Collected: 09/04/25 10:50 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	11.9	mg/L	0.25	1		09/12/25 05:13	16887-00-6	
Fluoride	0.44	mg/L	0.10	1		09/12/25 05:13	16984-48-8	
Sulfate	40.8	mg/L	0.25	1		09/12/25 05:13	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	50600	ug/L	1000	1	09/10/25 20:55	09/11/25 10:19	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:19	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-36-0	
Arsenic	0.0012	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-38-2	
Barium	0.055	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:36	7440-41-7	
Boron	0.11	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:36	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:36	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:36	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:05	7439-92-1	
Molybdenum	0.017	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7439-98-7	
Selenium	0.0012	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:05	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:58	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	237	mg/L	10.0	1		09/10/25 11:04		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW013D-60001 Lab ID: 50411767012 Collected: 09/03/25 14:50 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	80.4	mg/L	2.5	10		09/12/25 06:21	16887-00-6	
Fluoride	0.29	mg/L	0.10	1		09/12/25 06:04	16984-48-8	
Sulfate	868	mg/L	25.0	100		09/12/25 06:38	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	52400	ug/L	1000	1	09/10/25 20:55	09/11/25 10:21	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:21	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	0.0045	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-38-2	
Barium	0.045	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:58	7440-41-7	
Boron	1.1	mg/L	0.10	20	09/10/25 08:08	09/11/25 07:23	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:58	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:58	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:09	7439-92-1	
Molybdenum	0.16	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:09	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:05	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	1600	mg/L	20.0	1		09/08/25 09:41		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW013S-60001 Lab ID: 50411767013 Collected: 09/03/25 15:25 Received: 09/05/25 08:45 Matrix: Water

Table with 9 columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Rows include sections for 9056 IC Anions, 6010 MET ICP, 6020 MET ICPMS, 7470 Mercury, and 2540C Total Dissolved Solids.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW014D-60001 Lab ID: 50411767014 Collected: 09/03/25 13:02 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	15.6	mg/L	0.25	1		09/12/25 08:21	16887-00-6	
Fluoride	0.17	mg/L	0.10	1		09/12/25 08:21	16984-48-8	
Sulfate	81.9	mg/L	2.5	10		09/17/25 22:18	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	86800	ug/L	1000	1	09/10/25 20:55	09/11/25 10:29	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:29	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-36-0	
Arsenic	0.0012	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-38-2	
Barium	0.028	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:55	7440-41-7	
Boron	0.037	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:55	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:55	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:55	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:25	7439-92-1	
Molybdenum	0.0091	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:25	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:10	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	364	mg/L	10.0	1		09/08/25 09:41		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW014S-60001 Lab ID: 50411767015 Collected: 09/03/25 13:42 Received: 09/05/25 08:45 Matrix: Water

Table with columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Rows include 9056 IC Anions (Chloride, Fluoride, Sulfate), 6010 MET ICP (Calcium, Lithium), 6020 MET ICPMS (Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium), 7470 Mercury, and 2540C Total Dissolved Solids.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: Duplicate Lab ID: 50411767016 Collected: 09/03/25 08:00 Received: 09/05/25 08:45 Matrix: Water

Table with columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Rows include sections for 9056 IC Anions, 6010 MET ICP, 6020 MET ICPMS, 7470 Mercury, and 2540C Total Dissolved Solids.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW01D-60001 Lab ID: 50412306001 Collected: 09/10/25 12:35 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	13.6	mg/L	0.25	1		09/15/25 14:40	16887-00-6	
Fluoride	0.27	mg/L	0.10	1		09/15/25 14:40	16984-48-8	
Sulfate	51.8	mg/L	2.5	10		09/15/25 14:57	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	77100	ug/L	1000	1	09/15/25 16:17	09/16/25 14:34	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:34	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-38-2	
Barium	0.031	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 02:59	7440-41-7	
Boron	6.9	mg/L	0.50	100	09/16/25 08:30	09/18/25 00:29	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 02:59	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 02:59	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7439-92-1	
Molybdenum	0.0018	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 21:55	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	351	mg/L	10.0	1		09/17/25 08:42		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW01S-60001 Lab ID: 50412306002 Collected: 09/10/25 13:10 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	4.4	mg/L	0.25	1		09/15/25 15:31	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/15/25 15:31	16984-48-8	
Sulfate	35.6	mg/L	0.25	1		09/15/25 15:31	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	40300	ug/L	1000	1	09/15/25 16:17	09/16/25 14:45	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:45	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-38-2	
Barium	0.011	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:03	7440-41-7	
Boron	0.18	mg/L	0.025	5	09/16/25 08:30	09/18/25 00:32	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:03	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:03	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7439-92-1	
Molybdenum	0.022	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7439-98-7	
Selenium	0.0054	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 21:58	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	165	mg/L	10.0	1		09/17/25 08:43		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW02D-60001 Lab ID: 50412306003 Collected: 09/09/25 10:00 Received: 09/11/25 08:45 Matrix: Water

Table with 9 columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Rows include sections for 9056 IC Anions, 6010 MET ICP, 6020 MET ICPMS, 7470 Mercury, and 2540C Total Dissolved Solids.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW02S-60001 Lab ID: 50412306004 Collected: 09/09/25 10:36 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	3.4	mg/L	0.25	1		09/15/25 17:45	16887-00-6	
Fluoride	0.43	mg/L	0.10	1		09/15/25 17:45	16984-48-8	
Sulfate	332	mg/L	2.5	10		09/15/25 18:02	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	137000	ug/L	1000	1	09/15/25 16:17	09/16/25 14:49	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:49	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-36-0	
Arsenic	0.0047	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-38-2	
Barium	0.098	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:10	7440-41-7	
Boron	3.3	mg/L	0.25	50	09/16/25 08:30	09/18/25 00:41	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:10	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:10	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7439-92-1	
Molybdenum	0.026	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:13	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	627	mg/L	10.0	1		09/25/25 09:52		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW03D-60001 Lab ID: 50412306005 Collected: 09/09/25 14:10 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	729	mg/L	25.0	100		09/15/25 19:09	16887-00-6	
Fluoride	ND	mg/L	1.0	10		09/15/25 18:52	16984-48-8	D3
Sulfate	12500	mg/L	250	1000		09/19/25 21:06	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	284000	ug/L	2000	2	09/15/25 16:17	09/16/25 15:31	7440-70-2	
Lithium	65.9	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:55	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-36-0	
Arsenic	0.0021	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-38-2	
Barium	0.029	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:22	7440-41-7	
Boron	12.0	mg/L	1.0	200	09/16/25 08:30	09/18/25 00:53	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:22	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:22	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7439-92-1	
Molybdenum	0.32	mg/L	0.0030	3	09/16/25 08:30	09/18/25 05:32	7439-98-7	
Selenium	0.0032	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:15	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 3 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	20100	mg/L	333	1		09/25/25 09:53		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW03Sa-60001 Lab ID: 50412306006 Collected: 09/09/25 14:35 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	2.0	mg/L	0.25	1		09/15/25 19:59	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		09/15/25 19:59	16984-48-8	
Sulfate	233	mg/L	2.5	10		09/15/25 20:16	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	134000	ug/L	1000	1	09/15/25 16:17	09/16/25 14:57	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:57	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-36-0	
Arsenic	0.0073	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-38-2	
Barium	0.078	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-39-3	
Beryllium	ND	mg/L	0.00040	2	09/16/25 08:30	09/18/25 05:36	7440-41-7	D3
Boron	1.6	mg/L	0.10	20	09/16/25 08:30	09/18/25 00:56	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:26	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:26	7440-47-3	
Cobalt	0.0015	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7439-92-1	
Molybdenum	0.026	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7439-98-7	
Selenium	0.0018	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:17	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	572	mg/L	10.0	1		09/25/25 09:53		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW04D-60001 Lab ID: 50412306007 Collected: 09/10/25 09:50 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	110	mg/L	2.5	10		09/15/25 21:07	16887-00-6	
Fluoride	0.26	mg/L	0.10	1		09/15/25 20:50	16984-48-8	
Sulfate	1780	mg/L	25.0	100		09/15/25 21:23	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	235000	ug/L	2000	2	09/15/25 16:17	09/16/25 15:34	7440-70-2	
Lithium	20.4	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:00	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-38-2	
Barium	0.044	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:30	7440-41-7	
Boron	5.2	mg/L	0.50	100	09/16/25 08:30	09/18/25 01:00	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:30	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:30	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7439-92-1	
Molybdenum	1.5	mg/L	0.010	10	09/16/25 08:30	09/18/25 05:40	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:20	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	2970	mg/L	40.0	1		09/17/25 08:43		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW04S-60001 Lab ID: 50412306008 Collected: 09/10/25 10:25 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	11.1	mg/L	0.25	1		09/15/25 21:40	16887-00-6	
Fluoride	0.27	mg/L	0.10	1		09/15/25 21:40	16984-48-8	
Sulfate	363	mg/L	2.5	10		09/15/25 21:57	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	108000	ug/L	1000	1	09/15/25 16:17	09/16/25 15:02	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:02	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-36-0	
Arsenic	0.0054	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-38-2	
Barium	0.036	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:34	7440-41-7	
Boron	2.0	mg/L	0.25	50	09/16/25 08:30	09/18/25 01:04	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:34	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:34	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7439-92-1	
Molybdenum	0.13	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:22	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	747	mg/L	10.0	1		09/17/25 08:44		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW05D-60001 Lab ID: 50412306009 Collected: 09/10/25 11:45 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	683	mg/L	25.0	100		09/17/25 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/15/25 23:04	16984-48-8	
Sulfate	4850	mg/L	250	1000		09/17/25 20:54	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	457000	ug/L	3000	3	09/15/25 16:17	09/16/25 15:36	7440-70-2	
Lithium	40.5	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:04	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-38-2	
Barium	0.067	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:03	7440-41-7	
Boron	13.9	mg/L	1.0	200	09/16/25 08:30	09/18/25 01:20	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:50	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:50	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7439-92-1	
Molybdenum	2.6	mg/L	0.020	20	09/16/25 08:30	09/18/25 05:51	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:25	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 10 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	8100	mg/L	100	1		09/17/25 08:44		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW05S-60001 Lab ID: 50412306010 Collected: 09/10/25 11:10 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	7.2	mg/L	0.25	1		09/17/25 21:11	16887-00-6	
Fluoride	0.30	mg/L	0.10	1		09/17/25 21:11	16984-48-8	
Sulfate	461	mg/L	2.5	10		09/17/25 21:27	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	197000	ug/L	1000	1	09/15/25 16:17	09/16/25 15:06	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:06	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-36-0	
Arsenic	0.0040	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-38-2	
Barium	0.22	mg/L	0.0020	2	09/16/25 08:30	09/18/25 05:55	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:19	7440-41-7	
Boron	2.5	mg/L	0.25	50	09/16/25 08:30	09/18/25 01:24	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:54	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:54	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7439-92-1	
Molybdenum	0.037	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:27	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	908	mg/L	10.0	1		09/17/25 08:44		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQSW004-20001 Lab ID: 50412306011 Collected: 09/09/25 15:20 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	26.8	mg/L	2.5	10		09/17/25 21:44	16887-00-6	
Fluoride	0.52	mg/L	0.10	1		09/16/25 00:45	16984-48-8	
Sulfate	480	mg/L	2.5	10		09/17/25 21:44	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	72500	ug/L	1000	1	09/15/25 16:17	09/16/25 15:08	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:08	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-36-0	
Arsenic	0.0016	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-38-2	
Barium	0.038	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:23	7440-41-7	
Boron	3.3	mg/L	0.25	50	09/16/25 08:30	09/18/25 01:28	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:58	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:58	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7439-92-1	
Molybdenum	0.31	mg/L	0.0020	2	09/16/25 08:30	09/18/25 05:59	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:30	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	890	mg/L	10.0	1		09/25/25 09:54		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW08D-60001 Lab ID: 50412313001 Collected: 09/11/25 07:40 Received: 09/11/25 16:00 Matrix: Water

Table with columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Rows include 9056 IC Anions (Chloride, Fluoride, Sulfate), 6010 MET ICP (Calcium, Lithium), 6020 MET ICPMS (Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium), 7470 Mercury, and 2540C Total Dissolved Solids.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW08S-60001 Lab ID: 50412313002 Collected: 09/11/25 07:00 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	5.3	mg/L	0.25	1		09/13/25 04:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/13/25 04:34	16984-48-8	
Sulfate	28.5	mg/L	0.25	1		09/13/25 04:34	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	28500	ug/L	1000	1	09/15/25 16:17	09/16/25 15:12	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:12	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-38-2	
Barium	0.0042	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 01:44	7440-41-7	
Boron	0.029	mg/L	0.0050	1	09/16/25 08:30	09/18/25 01:44	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:13	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:13	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:55	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	130	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: AR-AQMW09D-60001 Lab ID: 50412313003 Collected: 09/11/25 08:15 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056								
Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL								
Pace Analytical Services - Indianapolis								
Chloride	17.8	mg/L	0.25	1		09/13/25 05:24	16887-00-6	
Fluoride	0.41	mg/L	0.10	1		09/13/25 05:24	16984-48-8	
Sulfate	1.8	mg/L	0.25	1		09/13/25 05:24	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Calcium	44000	ug/L	1000	1	09/15/25 16:17	09/16/25 15:14	7440-70-2	
Lithium	43.8	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:14	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2								
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL								
Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-38-2	
Barium	0.047	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:31	7440-41-7	
Boron	1.6	mg/L	0.10	20	09/16/25 08:30	09/18/25 01:48	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:17	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:17	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7439-92-1	
Molybdenum	0.0024	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL								
Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:57	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C								
Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL								
Pace Analytical Services - Indianapolis								
Total Dissolved Solids	318	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Sample: AR-AQMW09S-60001 Lab ID: 50412313004 Collected: 09/11/25 08:45 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis								
Chloride	16.3	mg/L	0.25	1		09/13/25 06:14	16887-00-6	
Fluoride	0.41	mg/L	0.10	1		09/13/25 06:14	16984-48-8	
Sulfate	45.4	mg/L	2.5	10		09/13/25 06:31	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Calcium	54600	ug/L	1000	1	09/15/25 16:17	09/16/25 15:21	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:21	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-38-2	
Barium	0.049	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 01:52	7440-41-7	
Boron	0.025	mg/L	0.0050	1	09/16/25 08:30	09/18/25 01:52	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:21	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:21	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7439-92-1	
Molybdenum	0.0030	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:59	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	279	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample: Field Blank **Lab ID: 50412313005** Collected: 09/11/25 09:05 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions								
Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis								
Chloride	ND	mg/L	0.25	1		09/13/25 07:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/13/25 07:38	16984-48-8	
Sulfate	ND	mg/L	0.25	1		09/13/25 07:38	14808-79-8	
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Calcium	ND	ug/L	1000	1	09/15/25 16:17	09/16/25 15:23	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:23	7439-93-2	
6020 MET ICPMS								
Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis								
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-38-2	
Barium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 01:56	7440-41-7	
Boron	ND	mg/L	0.0050	1	09/16/25 08:30	09/18/25 01:56	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:25	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:25	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis								
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 19:02	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	ND	mg/L	10.0	1		09/18/25 12:35		PL

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch	862106	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3948883 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/11/25 09:06	
Fluoride	mg/L	ND	0.10	09/11/25 09:06	
Sulfate	mg/L	ND	0.25	09/11/25 09:06	

LABORATORY CONTROL SAMPLE: 3948884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	90	80-120	
Fluoride	mg/L	1	0.98	98	80-120	
Sulfate	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3948889 3948890

Parameter	Units	50411767005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	13.6	2.5	2.5	16.7	16.5	122	113	80-120	1	15	M0
Fluoride	mg/L	ND	1	1	1.1	1.1	101	101	80-120	0	15	
Sulfate	mg/L	111	50	50	161	161	100	99	80-120	0	15	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch: 862493

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3950620

Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/12/25 10:19	
Fluoride	mg/L	ND	0.10	09/12/25 10:19	
Sulfate	mg/L	ND	0.25	09/12/25 10:19	

LABORATORY CONTROL SAMPLE: 3950621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.6	106	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950622 3950623

Parameter	Units	50412217002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	75.0	25	25	98.6	98.7	94	95	80-120	0	15	
Fluoride	mg/L	0.12	1	1	1.1	1.1	102	99	80-120	2	15	
Sulfate	mg/L	38.5	5	5	43.8	43.6	105	102	80-120	0	15	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 862517

Analysis Method: EPA 9056

QC Batch Method: EPA 9056

Analysis Description: 9056 IC Anions

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

METHOD BLANK: 3950676

Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/15/25 14:06	
Fluoride	mg/L	ND	0.10	09/15/25 14:06	
Sulfate	mg/L	ND	0.25	09/15/25 14:06	

LABORATORY CONTROL SAMPLE: 3950677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.6	105	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950678 3950679

Parameter	Units	50412085001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	22.6	25	25	45.9	46.4	93	95	80-120	1	15	
Fluoride	mg/L	0.23	1	1	1.2	1.2	100	100	80-120	0	15	
Sulfate	mg/L	107	50	50	154	156	95	99	80-120	1	15	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 861781

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005

METHOD BLANK: 3947651

Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/10/25 09:17	

LABORATORY CONTROL SAMPLE: 3947652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947653 3947654

Parameter	Units	50411751009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	5.0	5.1	99	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 861857

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3947950

Matrix: Water

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/10/25 08:26	

LABORATORY CONTROL SAMPLE: 3947951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947952 3947953

Parameter	Units	50411767011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 862582

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

METHOD BLANK: 3950941

Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/15/25 21:38	

LABORATORY CONTROL SAMPLE: 3950942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950943 3950944

Parameter	Units	50412306003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	5.0	5.0	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch: 863080

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3953228

Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/17/25 18:18	

LABORATORY CONTROL SAMPLE: 3953229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3953230 3953231

Parameter	Units	50412404002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	4.6	5.0	91	100	75-125	9	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch: 861536

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3946842

Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	ND	1000	09/11/25 09:37	
Lithium	ug/L	ND	20.0	09/11/25 09:37	

LABORATORY CONTROL SAMPLE: 3946843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9780	98	80-120	
Lithium	ug/L	1000	981	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3946844

3946845

Parameter	Units	50411685001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium	ug/L	221000	10000	10000	230000	231000	99	107	75-125	0	20	E
Lithium	ug/L	65.2	1000	1000	1000	1010	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch: 862467

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3950428

Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	ND	1000	09/16/25 14:30	
Lithium	ug/L	ND	20.0	09/16/25 14:30	

LABORATORY CONTROL SAMPLE: 3950429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9260	93	80-120	
Lithium	ug/L	1000	903	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950430

3950431

Parameter	Units	50412306001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium	ug/L	77100	10000	10000	85500	86000	84	89	75-125	1	20	
Lithium	ug/L	ND	1000	1000	885	927	88	92	75-125	5	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch: 861811 Analysis Method: EPA 6020

QC Batch Method: EPA 200.2 Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3947762 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/11/25 05:09	
Arsenic	mg/L	ND	0.0010	09/11/25 05:09	
Barium	mg/L	ND	0.0010	09/11/25 05:09	
Beryllium	mg/L	ND	0.00020	09/11/25 05:09	
Boron	mg/L	ND	0.0050	09/11/25 05:09	N2
Cadmium	mg/L	ND	0.00020	09/11/25 05:09	
Chromium	mg/L	ND	0.0020	09/11/25 05:09	
Cobalt	mg/L	ND	0.0010	09/11/25 05:09	
Lead	mg/L	ND	0.0010	09/11/25 21:14	
Molybdenum	mg/L	ND	0.0010	09/11/25 05:09	
Selenium	mg/L	ND	0.0010	09/11/25 05:09	
Thallium	mg/L	ND	0.0010	09/11/25 21:14	

LABORATORY CONTROL SAMPLE: 3947763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	103	80-120	
Arsenic	mg/L	0.04	0.040	101	80-120	
Barium	mg/L	0.04	0.039	98	80-120	
Beryllium	mg/L	0.04	0.039	99	80-120	
Boron	mg/L	0.04	0.043	108	80-120	N2
Cadmium	mg/L	0.04	0.040	100	80-120	
Chromium	mg/L	0.04	0.043	107	80-120	
Cobalt	mg/L	0.04	0.043	107	80-120	
Lead	mg/L	0.04	0.041	103	80-120	
Molybdenum	mg/L	0.04	0.041	102	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.042	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947764 3947765

Parameter	Units	50411767004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/L	ND	0.04	0.04	0.041	0.042	101	104	75-125	3	20	
Arsenic	mg/L	0.0018	0.04	0.04	0.043	0.042	102	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947764			3947765									
Parameter	Units	50411767004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Barium	mg/L	0.028	0.04	0.04	0.066	0.067	96	97	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.041	100	101	75-125	2	20	
Boron	mg/L	0.022	0.04	0.04	0.065	0.067	108	113	75-125	3	20	N2
Cadmium	mg/L	ND	0.04	0.04	0.039	0.040	97	100	75-125	3	20	
Chromium	mg/L	ND	0.04	0.04	0.043	0.043	106	108	75-125	2	20	
Cobalt	mg/L	ND	0.04	0.04	0.040	0.041	100	103	75-125	3	20	
Lead	mg/L	ND	0.04	0.04	0.042	0.042	104	105	75-125	1	20	
Molybdenum	mg/L	0.0048	0.04	0.04	0.045	0.046	99	103	75-125	3	20	
Selenium	mg/L	ND	0.04	0.04	0.040	0.041	99	102	75-125	3	20	
Thallium	mg/L	ND	0.04	0.04	0.043	0.043	107	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch: 862825 Analysis Method: EPA 6020

QC Batch Method: EPA 200.2 Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3952337 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/17/25 02:39	
Arsenic	mg/L	ND	0.0010	09/17/25 02:39	
Barium	mg/L	ND	0.0010	09/17/25 02:39	
Beryllium	mg/L	ND	0.00020	09/17/25 02:39	
Boron	mg/L	ND	0.0050	09/17/25 02:39	N2
Cadmium	mg/L	ND	0.00020	09/17/25 02:39	
Chromium	mg/L	ND	0.0020	09/17/25 02:39	
Cobalt	mg/L	ND	0.0010	09/17/25 02:39	
Lead	mg/L	ND	0.0010	09/17/25 02:39	
Molybdenum	mg/L	ND	0.0010	09/17/25 02:39	
Selenium	mg/L	ND	0.0010	09/17/25 02:39	
Thallium	mg/L	ND	0.0010	09/17/25 02:39	

LABORATORY CONTROL SAMPLE: 3952338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.043	108	80-120	
Arsenic	mg/L	0.04	0.042	104	80-120	
Barium	mg/L	0.04	0.041	102	80-120	
Beryllium	mg/L	0.04	0.040	101	80-120	
Boron	mg/L	0.04	0.043	108	80-120	N2
Cadmium	mg/L	0.04	0.041	102	80-120	
Chromium	mg/L	0.04	0.043	107	80-120	
Cobalt	mg/L	0.04	0.043	107	80-120	
Lead	mg/L	0.04	0.042	105	80-120	
Molybdenum	mg/L	0.04	0.041	103	80-120	
Selenium	mg/L	0.04	0.041	102	80-120	
Thallium	mg/L	0.04	0.043	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3952339 3952340

Parameter	Units	50412535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/L	ND	0.04	0.04	0.046	0.046	116	115	75-125	0	20	
Arsenic	mg/L	1.4 ug/L	0.04	0.04	0.046	0.046	112	111	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

		3952339		3952340									
Parameter	Units	50412535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Barium	mg/L	127 ug/L	0.04	0.04	0.17	0.17	101	103	75-125	1	20		
Beryllium	mg/L	0.028J ug/L	0.04	0.04	0.042	0.042	105	104	75-125	1	20	CC	
Boron	mg/L	5800 ug/L	0.04	0.04	5.7	5.7	-197	-340	75-125	1	20	CC,E,N2, P6	
Cadmium	mg/L	ND	0.04	0.04	0.041	0.041	103	102	75-125	1	20		
Chromium	mg/L	0.62J ug/L	0.04	0.04	0.046	0.045	113	111	75-125	1	20		
Cobalt	mg/L	0.72J ug/L	0.04	0.04	0.043	0.043	106	106	75-125	0	20		
Lead	mg/L	0.27J ug/L	0.04	0.04	0.044	0.044	110	110	75-125	0	20		
Molybdenum	mg/L	21.3 ug/L	0.04	0.04	0.066	0.066	112	112	75-125	0	20		
Selenium	mg/L	ND	0.04	0.04	0.042	0.045	105	113	75-125	7	20		
Thallium	mg/L	ND	0.04	0.04	0.046	0.045	114	113	75-125	1	20		

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 861624

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3947136

Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/08/25 09:35	

LABORATORY CONTROL SAMPLE: 3947137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	296	99	80-120	

SAMPLE DUPLICATE: 3947138

Parameter	Units	50411534004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73	71	3	10	

SAMPLE DUPLICATE: 3947139

Parameter	Units	50411534005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57	102	57	10	R1

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 862069

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011

METHOD BLANK: 3948767

Matrix: Water

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/10/25 11:00	

LABORATORY CONTROL SAMPLE: 3948768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3948769

Parameter	Units	50411767006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	378	383	1	10	

SAMPLE DUPLICATE: 3948770

Parameter	Units	50411767007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	466	470	1	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 863213

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306007, 50412306008, 50412306009, 50412306010

METHOD BLANK: 3954077

Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306007, 50412306008, 50412306009, 50412306010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/17/25 08:41	

LABORATORY CONTROL SAMPLE: 3954078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3954079

Parameter	Units	50412243003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1110	1110	0	10	

SAMPLE DUPLICATE: 3954080

Parameter	Units	50412306001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	351	346	1	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 863215

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004

METHOD BLANK: 3954086

Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/17/25 09:11	

LABORATORY CONTROL SAMPLE: 3954087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 3954088

Parameter	Units	50412693006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	323	323	0	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 863541

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313005

METHOD BLANK: 3955443

Matrix: Water

Associated Lab Samples: 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/18/25 12:34	

LABORATORY CONTROL SAMPLE: 3955444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3955445

Parameter	Units	50412389001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2580	2530	2	10	

SAMPLE DUPLICATE: 3955446

Parameter	Units	50412389002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1070	1060	2	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 864539

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306011

METHOD BLANK: 3960678

Matrix: Water

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/25/25 09:51	

LABORATORY CONTROL SAMPLE: 3960679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	279	93	80-120	

SAMPLE DUPLICATE: 3960680

Parameter	Units	50412306003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1470	2	10	H1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW010D-60001	Lab ID:	50411767001	Collected:	09/03/25 08:00	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.106 ± 0.330 (0.639)		pCi/L	10/01/25 14:26	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.785 ± 0.414 (0.747)		pCi/L	09/30/25 11:30	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.891 ± 0.744 (1.39)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW010S-60001	Lab ID:	50411767002	Collected:	09/03/25 09:02	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.346 ± 0.324 (0.459)		pCi/L	10/01/25 14:26	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.458 ± 0.368 (0.722)		pCi/L	10/03/25 12:20	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.804 ± 0.692 (1.18)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQSW010-20001	Lab ID:	50411767003	Collected:	09/03/25 09:46	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.425 ± 0.361 (0.447)		pCi/L	10/01/25 14:26	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.808 ± 0.389 (0.654)		pCi/L	10/03/25 12:21	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.23 ± 0.750 (1.10)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW06D-60001	Lab ID:	50411767004	Collected:	09/03/25 11:20	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.284 ± 0.297 (0.419)		pCi/L	10/01/25 14:26	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.518 ± 0.370 (0.722)		pCi/L	09/30/25 11:28	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.802 ± 0.667 (1.14)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Sample:	AR-AQMW06S-60001	Lab ID:	50411767005	Collected:	09/03/25 10:42	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.260 ± 0.307 (0.482)		pCi/L	10/01/25 14:26	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.809 ± 0.454 (0.822)		pCi/L	09/30/25 14:34	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.07 ± 0.761 (1.30)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW07D-60001	Lab ID:	50411767006	Collected:	09/04/25 09:30	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.109 ± 0.249 (0.401)		pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.947 ± 0.451 (0.758)		pCi/L	09/30/25 14:34	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.06 ± 0.700 (1.16)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW07S-60001	Lab ID:	50411767007	Collected:	09/04/25 09:25	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.000 ± 0.364 (0.756)		pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.498 ± 0.337 (0.633)		pCi/L	09/30/25 14:34	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.498 ± 0.701 (1.39)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW011D-60001	Lab ID:	50411767008	Collected:	09/04/25 12:00	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.529 ± 0.552 (0.882)		pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.870 ± 0.422 (0.705)		pCi/L	09/30/25 14:34	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.40 ± 0.974 (1.59)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW011S-60001	Lab ID:	50411767009	Collected:	09/04/25 12:55	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.340 ± 0.289 (0.358)		pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.812 ± 0.444 (0.800)		pCi/L	09/30/25 14:34	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.15 ± 0.733 (1.16)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW012D-60001	Lab ID:	50411767010	Collected:	09/04/25 10:20	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.0520 ± 0.270	(0.560)	pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.526 ± 0.546	(1.14)	pCi/L	09/30/25 16:13	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.578 ± 0.816	(1.70)	pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW012S-60001	Lab ID:	50411767011	Collected:	09/04/25 10:50	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.263 ± 0.372 (0.631)		pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.895 ± 0.500 (0.907)		pCi/L	09/30/25 14:35	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.16 ± 0.872 (1.54)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW013D-60001	Lab ID:	50411767012	Collected:	09/03/25 14:50	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.412 ± 0.381	(0.555)	pCi/L	10/01/25 14:37	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.346 ± 0.400	(0.839)	pCi/L	09/30/25 14:35	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.758 ± 0.781	(1.39)	pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW013S-60001	Lab ID:	50411767013	Collected:	09/03/25 15:25	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.112 ± 0.466 (0.888)		pCi/L	10/01/25 14:49	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.687 ± 0.438 (0.823)		pCi/L	09/30/25 14:35	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.799 ± 0.904 (1.71)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW014D-60001	Lab ID:	50411767014	Collected:	09/03/25 13:02	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	-0.204 ± 0.424 (0.923)		pCi/L	10/01/25 14:49	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.496 ± 0.372 (0.727)		pCi/L	09/30/25 14:35	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.496 ± 0.796 (1.65)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW014S-60001	Lab ID:	50411767015	Collected:	09/03/25 13:42	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.978 ± 0.671 (0.968)		pCi/L	10/01/25 14:49	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.557 ± 0.409 (0.789)		pCi/L	09/30/25 14:35	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.54 ± 1.08 (1.76)		pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	Duplicate	Lab ID:	50411767016	Collected:	09/03/25 08:00	Received:	09/05/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual		
		Pace Analytical Services - Greensburg							
Radium-226		EPA 903.1	0.0546 ± 0.249 (0.507) C:NA T:98%	pCi/L	10/01/25 14:49	13982-63-3			
		Pace Analytical Services - Greensburg							
Radium-228		EPA 904.0	0.0685 ± 0.381 (0.873) C:73% T:86%	pCi/L	09/30/25 14:35	15262-20-1			
		Pace Analytical Services - Greensburg							
Total Radium		Total Radium Calculation	0.123 ± 0.630 (1.38)	pCi/L	10/06/25 11:44	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW01D-60001	Lab ID:	50412306001	Collected:	09/10/25 12:35	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.0881 ± 0.244	(0.474)	pCi/L	09/29/25 16:35	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.818 ± 0.431	(0.755)	pCi/L	09/25/25 14:38	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.906 ± 0.675	(1.23)	pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW01S-60001	Lab ID:	50412306002	Collected:	09/10/25 13:10	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.000 ± 0.304 (0.631)		pCi/L	09/29/25 16:35	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.504 ± 0.365 (0.705)		pCi/L	09/25/25 14:38	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.504 ± 0.669 (1.34)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW02D-60001	Lab ID:	50412306003	Collected:	09/09/25 10:00	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.187 ± 0.367 (0.659)		pCi/L	09/29/25 16:35	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.17 ± 0.562 (1.00)		pCi/L	09/25/25 12:21	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.36 ± 0.929 (1.66)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
 Pace Project No.: 50411767

Sample:	AR-AQMW02S-60001	Lab ID:	50412306004	Collected:	09/09/25 10:36	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.719 ± 0.383 (0.331)		pCi/L	09/29/25 16:35	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.10 ± 0.518 (0.923)		pCi/L	09/25/25 12:22	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.82 ± 0.901 (1.25)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW03D-60001	Lab ID:	50412306005	Collected:	09/09/25 14:10	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.408 ± 0.271 (0.123)		pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	4.75 ± 1.08 (0.869)		pCi/L	09/25/25 12:22	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	5.16 ± 1.35 (0.992)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW03Sa-60001	Lab ID:	50412306006	Collected:	09/09/25 14:35	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.879 ± 0.453	(0.380)	pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.01 ± 0.524	(0.957)	pCi/L	09/25/25 12:22	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.89 ± 0.977	(1.34)	pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW04D-60001	Lab ID:	50412306007	Collected:	09/10/25 09:50	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	1.29 ± 0.543	(0.444)	pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.88 ± 0.594	(0.791)	pCi/L	09/25/25 12:22	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	3.17 ± 1.14	(1.24)	pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW04S-60001	Lab ID:	50412306008	Collected:	09/10/25 10:25	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.479 ± 0.581 (0.963)		pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.10 ± 0.522 (0.912)		pCi/L	09/25/25 12:22	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.58 ± 1.10 (1.88)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW05D-60001	Lab ID:	50412306009	Collected:	09/10/25 11:45	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	1.45 ± 0.592 (0.520)		pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	3.48 ± 0.856 (0.804)		pCi/L	09/25/25 12:21	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	4.93 ± 1.45 (1.32)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW05S-60001	Lab ID:	50412306010	Collected:	09/10/25 11:10	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.649 ± 0.475 (0.655)		pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.68 ± 0.558 (0.783)		pCi/L	09/25/25 12:21	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	2.33 ± 1.03 (1.44)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQSW004-20001	Lab ID:	50412306011	Collected:	09/09/25 15:20	Received:	09/11/25 08:45	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.437 ± 0.342 (0.402)		pCi/L	09/29/25 16:48	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	1.19 ± 0.500 (0.822)		pCi/L	09/25/25 12:21	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.63 ± 0.842 (1.22)		pCi/L	09/29/25 17:52	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW08D-60001	Lab ID:	50412313001	Collected:	09/11/25 07:40	Received:	09/11/25 16:00	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.482 ± 0.548 (0.892)		pCi/L	10/01/25 12:56	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.218 ± 0.340 (0.735)		pCi/L	09/29/25 15:38	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.700 ± 0.888 (1.63)		pCi/L	10/01/25 16:32	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW08S-60001	Lab ID:	50412313002	Collected:	09/11/25 07:00	Received:	09/11/25 16:00	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.420 ± 0.295 (0.142)		pCi/L	10/01/25 12:56	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.830 ± 0.434 (0.753)		pCi/L	09/29/25 15:38	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.25 ± 0.729 (0.895)		pCi/L	10/01/25 16:32	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW09D-60001	Lab ID:	50412313003	Collected:	09/11/25 08:15	Received:	09/11/25 16:00	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.724 ± 0.421 (0.449)		pCi/L	10/01/25 12:56	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.438 ± 0.385 (0.778)		pCi/L	09/29/25 15:39	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	1.16 ± 0.806 (1.23)		pCi/L	10/01/25 16:32	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	AR-AQMW09S-60001	Lab ID:	50412313004	Collected:	09/11/25 08:45	Received:	09/11/25 16:00	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	0.257 ± 0.581 (1.04)		pCi/L	10/01/25 12:56	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.539 ± 0.384 (0.740)		pCi/L	09/29/25 15:39	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.796 ± 0.965 (1.78)		pCi/L	10/01/25 16:32	7440-14-4			



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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Sample:	Field Blank	Lab ID:	50412313005	Collected:	09/11/25 09:05	Received:	09/11/25 16:00	Matrix:	Water
PWS:		Site ID:		Sample Type:					
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual		
	Pace Analytical Services - Greensburg								
Radium-226	EPA 903.1	-0.258 ± 0.441 (0.969)		pCi/L	10/01/25 12:56	13982-63-3			
	Pace Analytical Services - Greensburg								
Radium-228	EPA 904.0	0.252 ± 0.302 (0.634)		pCi/L	09/29/25 15:39	15262-20-1			
	Pace Analytical Services - Greensburg								
Total Radium	Total Radium Calculation	0.252 ± 0.743 (1.60)		pCi/L	10/01/25 16:32	7440-14-4			



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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 771687

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3762183

Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.431 ± 0.361 (0.708) C:76% T:77%	pCi/L	10/03/25 12:20	



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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 771686

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3762182

Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0792 ± 0.190 (0.368) C:NA T:99%	pCi/L	10/01/25 14:26	



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Date: 10/06/2025 04:14 PM



QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 770880

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412306001, 50412306002

METHOD BLANK: 3758457

Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.207 ± 0.215 (0.320) C:NA T:102%	pCi/L	09/29/25 16:22	



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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch	770881	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412306001, 50412306002

METHOD BLANK: 3758458 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.438 ± 0.356 (0.705) C:77% T:93%	pCi/L	09/25/25 14:36	



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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 771205

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3759742

Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0397 ± 0.181 (0.369) C:NA T:103%	pCi/L	10/01/25 12:56	



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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

QC Batch 771207

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3759743

Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.139 ± 0.307 (0.750) C:80% T:89%	pCi/L	09/29/25 15:38	



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QUALIFIERS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- 1d Analyte was detected in the continuing calibration blank. Analyte concentration is at least ten times that of the blank. MTM 9/18/25
- CC The continuing calibration for this compound is outside of method control limits. The result is estimated.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- E Analyte concentration exceeded the calibration range. The reported result is estimated.
- H1 Analysis conducted outside the recognized method holding time.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- PL The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- R1 RPD value was outside control limits.

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METHOD CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Parameter	Matrix	Analytical Method	Preparation Method
2540C Total Dissolved Solids	Water	SM 2540C-2020	N/A
6010 MET ICP	Water	SW-846 6010B	SW-846 3010A
6020 MET ICPMS	Water	EPA 6020	EPA 200.2
7470 Mercury	Water	EPA 7470A	EPA 7470A
9056 IC Anions	Water	SW-846 9056A	N/A



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50411767001	AR-AQMW010D-60001	EPA 9056	862106		
50411767002	AR-AQMW010S-60001	EPA 9056	862106		
50411767003	AR-AQSW010-20001	EPA 9056	862106		
50411767004	AR-AQMW06D-60001	EPA 9056	862106		
50411767005	AR-AQMW06S-60001	EPA 9056	862106		
50411767006	AR-AQMW07D-60001	EPA 9056	862106		
50411767007	AR-AQMW07S-60001	EPA 9056	862106		
50411767008	AR-AQMW011D-60001	EPA 9056	862106		
50411767009	AR-AQMW011S-60001	EPA 9056	862106		
50411767010	AR-AQMW012D-60001	EPA 9056	862106		
50411767011	AR-AQMW012S-60001	EPA 9056	862106		
50411767012	AR-AQMW013D-60001	EPA 9056	862106		
50411767013	AR-AQMW013S-60001	EPA 9056	862106		
50411767014	AR-AQMW014D-60001	EPA 9056	862106		
50411767015	AR-AQMW014S-60001	EPA 9056	862106		
50411767016	Duplicate	EPA 9056	862106		
50412306001	AR-AQMW01D-60001	EPA 9056	862517		
50412306002	AR-AQMW01S-60001	EPA 9056	862517		
50412306003	AR-AQMW02D-60001	EPA 9056	862517		
50412306004	AR-AQMW02S-60001	EPA 9056	862517		
50412306005	AR-AQMW03D-60001	EPA 9056	862517		
50412306006	AR-AQMW03Sa-60001	EPA 9056	862517		
50412306007	AR-AQMW04D-60001	EPA 9056	862517		
50412306008	AR-AQMW04S-60001	EPA 9056	862517		
50412306009	AR-AQMW05D-60001	EPA 9056	862517		
50412306010	AR-AQMW05S-60001	EPA 9056	862517		
50412306011	AR-AQSW004-20001	EPA 9056	862517		
50412313001	AR-AQMW08D-60001	EPA 9056	862493		
50412313002	AR-AQMW08S-60001	EPA 9056	862493		
50412313003	AR-AQMW09D-60001	EPA 9056	862493		
50412313004	AR-AQMW09S-60001	EPA 9056	862493		
50412313005	Field Blank	EPA 9056	862493		
50411767001	AR-AQMW010D-60001	EPA 3010	861536	EPA 6010	862309
50411767002	AR-AQMW010S-60001	EPA 3010	861536	EPA 6010	862309
50411767003	AR-AQSW010-20001	EPA 3010	861536	EPA 6010	862309
50411767004	AR-AQMW06D-60001	EPA 3010	861536	EPA 6010	862309
50411767005	AR-AQMW06S-60001	EPA 3010	861536	EPA 6010	862309
50411767006	AR-AQMW07D-60001	EPA 3010	861536	EPA 6010	862309
50411767007	AR-AQMW07S-60001	EPA 3010	861536	EPA 6010	862309
50411767008	AR-AQMW011D-60001	EPA 3010	861536	EPA 6010	862309
50411767009	AR-AQMW011S-60001	EPA 3010	861536	EPA 6010	862309
50411767010	AR-AQMW012D-60001	EPA 3010	861536	EPA 6010	862309
50411767011	AR-AQMW012S-60001	EPA 3010	861536	EPA 6010	862309
50411767012	AR-AQMW013D-60001	EPA 3010	861536	EPA 6010	862309
50411767013	AR-AQMW013S-60001	EPA 3010	861536	EPA 6010	862309
50411767014	AR-AQMW014D-60001	EPA 3010	861536	EPA 6010	862309
50411767015	AR-AQMW014S-60001	EPA 3010	861536	EPA 6010	862309
50411767016	Duplicate	EPA 3010	861536	EPA 6010	862309

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50412306001	AR-AQMW01D-60001	EPA 3010	862467	EPA 6010	863093
50412306002	AR-AQMW01S-60001	EPA 3010	862467	EPA 6010	863093
50412306003	AR-AQMW02D-60001	EPA 3010	862467	EPA 6010	863093
50412306004	AR-AQMW02S-60001	EPA 3010	862467	EPA 6010	863093
50412306005	AR-AQMW03D-60001	EPA 3010	862467	EPA 6010	863093
50412306006	AR-AQMW03Sa-60001	EPA 3010	862467	EPA 6010	863093
50412306007	AR-AQMW04D-60001	EPA 3010	862467	EPA 6010	863093
50412306008	AR-AQMW04S-60001	EPA 3010	862467	EPA 6010	863093
50412306009	AR-AQMW05D-60001	EPA 3010	862467	EPA 6010	863093
50412306010	AR-AQMW05S-60001	EPA 3010	862467	EPA 6010	863093
50412306011	AR-AQSW004-20001	EPA 3010	862467	EPA 6010	863093
50412313001	AR-AQMW08D-60001	EPA 3010	862467	EPA 6010	863093
50412313002	AR-AQMW08S-60001	EPA 3010	862467	EPA 6010	863093
50412313003	AR-AQMW09D-60001	EPA 3010	862467	EPA 6010	863093
50412313004	AR-AQMW09S-60001	EPA 3010	862467	EPA 6010	863093
50412313005	Field Blank	EPA 3010	862467	EPA 6010	863093
50411767001	AR-AQMW010D-60001	EPA 200.2	861811	EPA 6020	862255
50411767002	AR-AQMW010S-60001	EPA 200.2	861811	EPA 6020	862255
50411767003	AR-AQSW010-20001	EPA 200.2	861811	EPA 6020	862255
50411767004	AR-AQMW06D-60001	EPA 200.2	861811	EPA 6020	862255
50411767005	AR-AQMW06S-60001	EPA 200.2	861811	EPA 6020	862255
50411767006	AR-AQMW07D-60001	EPA 200.2	861811	EPA 6020	862255
50411767007	AR-AQMW07S-60001	EPA 200.2	861811	EPA 6020	862255
50411767008	AR-AQMW011D-60001	EPA 200.2	861811	EPA 6020	862255
50411767009	AR-AQMW011S-60001	EPA 200.2	861811	EPA 6020	862255
50411767010	AR-AQMW012D-60001	EPA 200.2	861811	EPA 6020	862255
50411767011	AR-AQMW012S-60001	EPA 200.2	861811	EPA 6020	862255
50411767012	AR-AQMW013D-60001	EPA 200.2	861811	EPA 6020	862255
50411767013	AR-AQMW013S-60001	EPA 200.2	861811	EPA 6020	862255
50411767014	AR-AQMW014D-60001	EPA 200.2	861811	EPA 6020	862255
50411767015	AR-AQMW014S-60001	EPA 200.2	861811	EPA 6020	862255
50411767016	Duplicate	EPA 200.2	861811	EPA 6020	862255
50412306001	AR-AQMW01D-60001	EPA 200.2	862825	EPA 6020	863180
50412306002	AR-AQMW01S-60001	EPA 200.2	862825	EPA 6020	863180
50412306003	AR-AQMW02D-60001	EPA 200.2	862825	EPA 6020	863180
50412306004	AR-AQMW02S-60001	EPA 200.2	862825	EPA 6020	863180
50412306005	AR-AQMW03D-60001	EPA 200.2	862825	EPA 6020	863180
50412306006	AR-AQMW03Sa-60001	EPA 200.2	862825	EPA 6020	863180
50412306007	AR-AQMW04D-60001	EPA 200.2	862825	EPA 6020	863180
50412306008	AR-AQMW04S-60001	EPA 200.2	862825	EPA 6020	863180
50412306009	AR-AQMW05D-60001	EPA 200.2	862825	EPA 6020	863180
50412306010	AR-AQMW05S-60001	EPA 200.2	862825	EPA 6020	863180
50412306011	AR-AQSW004-20001	EPA 200.2	862825	EPA 6020	863180
50412313001	AR-AQMW08D-60001	EPA 200.2	862825	EPA 6020	863180
50412313002	AR-AQMW08S-60001	EPA 200.2	862825	EPA 6020	863180
50412313003	AR-AQMW09D-60001	EPA 200.2	862825	EPA 6020	863180
50412313004	AR-AQMW09S-60001	EPA 200.2	862825	EPA 6020	863180
50412313005	Field Blank	EPA 200.2	862825	EPA 6020	863180

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50411767001	AR-AQMW010D-60001	EPA 7470	861781	EPA 7470	862050
50411767002	AR-AQMW010S-60001	EPA 7470	861781	EPA 7470	862050
50411767003	AR-AQSW010-20001	EPA 7470	861781	EPA 7470	862050
50411767004	AR-AQMW06D-60001	EPA 7470	861781	EPA 7470	862050
50411767005	AR-AQMW06S-60001	EPA 7470	861781	EPA 7470	862050
50411767006	AR-AQMW07D-60001	EPA 7470	861857	EPA 7470	862018
50411767007	AR-AQMW07S-60001	EPA 7470	861857	EPA 7470	862018
50411767008	AR-AQMW011D-60001	EPA 7470	861857	EPA 7470	862018
50411767009	AR-AQMW011S-60001	EPA 7470	861857	EPA 7470	862018
50411767010	AR-AQMW012D-60001	EPA 7470	861857	EPA 7470	862018
50411767011	AR-AQMW012S-60001	EPA 7470	861857	EPA 7470	862018
50411767012	AR-AQMW013D-60001	EPA 7470	861857	EPA 7470	862018
50411767013	AR-AQMW013S-60001	EPA 7470	861857	EPA 7470	862018
50411767014	AR-AQMW014D-60001	EPA 7470	861857	EPA 7470	862018
50411767015	AR-AQMW014S-60001	EPA 7470	861857	EPA 7470	862018
50411767016	Duplicate	EPA 7470	861857	EPA 7470	862018
50412306001	AR-AQMW01D-60001	EPA 7470	862582	EPA 7470	862938
50412306002	AR-AQMW01S-60001	EPA 7470	862582	EPA 7470	862938
50412306003	AR-AQMW02D-60001	EPA 7470	862582	EPA 7470	862938
50412306004	AR-AQMW02S-60001	EPA 7470	862582	EPA 7470	862938
50412306005	AR-AQMW03D-60001	EPA 7470	862582	EPA 7470	862938
50412306006	AR-AQMW03Sa-60001	EPA 7470	862582	EPA 7470	862938
50412306007	AR-AQMW04D-60001	EPA 7470	862582	EPA 7470	862938
50412306008	AR-AQMW04S-60001	EPA 7470	862582	EPA 7470	862938
50412306009	AR-AQMW05D-60001	EPA 7470	862582	EPA 7470	862938
50412306010	AR-AQMW05S-60001	EPA 7470	862582	EPA 7470	862938
50412306011	AR-AQSW004-20001	EPA 7470	862582	EPA 7470	862938
50412313001	AR-AQMW08D-60001	EPA 7470	863080	EPA 7470	863380
50412313002	AR-AQMW08S-60001	EPA 7470	863080	EPA 7470	863380
50412313003	AR-AQMW09D-60001	EPA 7470	863080	EPA 7470	863380
50412313004	AR-AQMW09S-60001	EPA 7470	863080	EPA 7470	863380
50412313005	Field Blank	EPA 7470	863080	EPA 7470	863380
50411767001	AR-AQMW010D-60001	EPA 903.1	771686		
50411767002	AR-AQMW010S-60001	EPA 903.1	771686		
50411767003	AR-AQSW010-20001	EPA 903.1	771686		
50411767004	AR-AQMW06D-60001	EPA 903.1	771686		
50411767005	AR-AQMW06S-60001	EPA 903.1	771686		
50411767006	AR-AQMW07D-60001	EPA 903.1	771686		
50411767007	AR-AQMW07S-60001	EPA 903.1	771686		
50411767008	AR-AQMW011D-60001	EPA 903.1	771686		
50411767009	AR-AQMW011S-60001	EPA 903.1	771686		
50411767010	AR-AQMW012D-60001	EPA 903.1	771686		
50411767011	AR-AQMW012S-60001	EPA 903.1	771686		
50411767012	AR-AQMW013D-60001	EPA 903.1	771686		
50411767013	AR-AQMW013S-60001	EPA 903.1	771686		
50411767014	AR-AQMW014D-60001	EPA 903.1	771686		
50411767015	AR-AQMW014S-60001	EPA 903.1	771686		
50411767016	Duplicate	EPA 903.1	771686		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50412306001	AR-AQMW01D-60001	EPA 903.1	770880		
50412306002	AR-AQMW01S-60001	EPA 903.1	770880		
50412306003	AR-AQMW02D-60001	EPA 903.1	770880		
50412306004	AR-AQMW02S-60001	EPA 903.1	770880		
50412306005	AR-AQMW03D-60001	EPA 903.1	770880		
50412306006	AR-AQMW03Sa-60001	EPA 903.1	770880		
50412306007	AR-AQMW04D-60001	EPA 903.1	770880		
50412306008	AR-AQMW04S-60001	EPA 903.1	770880		
50412306009	AR-AQMW05D-60001	EPA 903.1	770880		
50412306010	AR-AQMW05S-60001	EPA 903.1	770880		
50412306011	AR-AQSW004-20001	EPA 903.1	770880		
50412313001	AR-AQMW08D-60001	EPA 903.1	771205		
50412313002	AR-AQMW08S-60001	EPA 903.1	771205		
50412313003	AR-AQMW09D-60001	EPA 903.1	771205		
50412313004	AR-AQMW09S-60001	EPA 903.1	771205		
50412313005	Field Blank	EPA 903.1	771205		
50411767001	AR-AQMW010D-60001	EPA 904.0	771687		
50411767002	AR-AQMW010S-60001	EPA 904.0	771687		
50411767003	AR-AQSW010-20001	EPA 904.0	771687		
50411767004	AR-AQMW06D-60001	EPA 904.0	771687		
50411767005	AR-AQMW06S-60001	EPA 904.0	771687		
50411767006	AR-AQMW07D-60001	EPA 904.0	771687		
50411767007	AR-AQMW07S-60001	EPA 904.0	771687		
50411767008	AR-AQMW011D-60001	EPA 904.0	771687		
50411767009	AR-AQMW011S-60001	EPA 904.0	771687		
50411767010	AR-AQMW012D-60001	EPA 904.0	771687		
50411767011	AR-AQMW012S-60001	EPA 904.0	771687		
50411767012	AR-AQMW013D-60001	EPA 904.0	771687		
50411767013	AR-AQMW013S-60001	EPA 904.0	771687		
50411767014	AR-AQMW014D-60001	EPA 904.0	771687		
50411767015	AR-AQMW014S-60001	EPA 904.0	771687		
50411767016	Duplicate	EPA 904.0	771687		
50412306001	AR-AQMW01D-60001	EPA 904.0	770881		
50412306002	AR-AQMW01S-60001	EPA 904.0	770881		
50412306003	AR-AQMW02D-60001	EPA 904.0	770881		
50412306004	AR-AQMW02S-60001	EPA 904.0	770881		
50412306005	AR-AQMW03D-60001	EPA 904.0	770881		
50412306006	AR-AQMW03Sa-60001	EPA 904.0	770881		
50412306007	AR-AQMW04D-60001	EPA 904.0	770881		
50412306008	AR-AQMW04S-60001	EPA 904.0	770881		
50412306009	AR-AQMW05D-60001	EPA 904.0	770881		
50412306010	AR-AQMW05S-60001	EPA 904.0	770881		
50412306011	AR-AQSW004-20001	EPA 904.0	770881		
50412313001	AR-AQMW08D-60001	EPA 904.0	771207		
50412313002	AR-AQMW08S-60001	EPA 904.0	771207		
50412313003	AR-AQMW09D-60001	EPA 904.0	771207		
50412313004	AR-AQMW09S-60001	EPA 904.0	771207		
50412313005	Field Blank	EPA 904.0	771207		

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REPORT OF LABORATORY ANALYSIS

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Date: 10/06/2025 04:14 PM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50411767001	AR-AQMW010D-60001	Total Radium Calculation	775259		
50411767002	AR-AQMW010S-60001	Total Radium Calculation	775259		
50411767003	AR-AQSW010-20001	Total Radium Calculation	775259		
50411767004	AR-AQMW06D-60001	Total Radium Calculation	775259		
50411767005	AR-AQMW06S-60001	Total Radium Calculation	775259		
50411767006	AR-AQMW07D-60001	Total Radium Calculation	775259		
50411767007	AR-AQMW07S-60001	Total Radium Calculation	775259		
50411767008	AR-AQMW011D-60001	Total Radium Calculation	775259		
50411767009	AR-AQMW011S-60001	Total Radium Calculation	775259		
50411767010	AR-AQMW012D-60001	Total Radium Calculation	775259		
50411767011	AR-AQMW012S-60001	Total Radium Calculation	775259		
50411767012	AR-AQMW013D-60001	Total Radium Calculation	775259		
50411767013	AR-AQMW013S-60001	Total Radium Calculation	775259		
50411767014	AR-AQMW014D-60001	Total Radium Calculation	775259		
50411767015	AR-AQMW014S-60001	Total Radium Calculation	775259		
50411767016	Duplicate	Total Radium Calculation	775259		
50412306001	AR-AQMW01D-60001	Total Radium Calculation	773887		
50412306002	AR-AQMW01S-60001	Total Radium Calculation	773887		
50412306003	AR-AQMW02D-60001	Total Radium Calculation	773887		
50412306004	AR-AQMW02S-60001	Total Radium Calculation	773887		
50412306005	AR-AQMW03D-60001	Total Radium Calculation	773887		
50412306006	AR-AQMW03Sa-60001	Total Radium Calculation	773887		
50412306007	AR-AQMW04D-60001	Total Radium Calculation	773887		
50412306008	AR-AQMW04S-60001	Total Radium Calculation	773887		
50412306009	AR-AQMW05D-60001	Total Radium Calculation	773887		
50412306010	AR-AQMW05S-60001	Total Radium Calculation	773887		
50412306011	AR-AQSW004-20001	Total Radium Calculation	773887		
50412313001	AR-AQMW08D-60001	Total Radium Calculation	774487		
50412313002	AR-AQMW08S-60001	Total Radium Calculation	774487		
50412313003	AR-AQMW09D-60001	Total Radium Calculation	774487		
50412313004	AR-AQMW09S-60001	Total Radium Calculation	774487		
50412313005	Field Blank	Total Radium Calculation	774487		
50411767001	AR-AQMW010D-60001	SM 2540C	861624		
50411767002	AR-AQMW010S-60001	SM 2540C	861624		
50411767003	AR-AQSW010-20001	SM 2540C	861624		
50411767004	AR-AQMW06D-60001	SM 2540C	861624		
50411767005	AR-AQMW06S-60001	SM 2540C	861624		
50411767012	AR-AQMW013D-60001	SM 2540C	861624		
50411767013	AR-AQMW013S-60001	SM 2540C	861624		
50411767014	AR-AQMW014D-60001	SM 2540C	861624		
50411767015	AR-AQMW014S-60001	SM 2540C	861624		
50411767016	Duplicate	SM 2540C	861624		
50411767006	AR-AQMW07D-60001	SM 2540C	862069		
50411767007	AR-AQMW07S-60001	SM 2540C	862069		
50411767008	AR-AQMW011D-60001	SM 2540C	862069		
50411767009	AR-AQMW011S-60001	SM 2540C	862069		
50411767010	AR-AQMW012D-60001	SM 2540C	862069		
50411767011	AR-AQMW012S-60001	SM 2540C	862069		

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REPORT OF LABORATORY ANALYSIS

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Date: 10/06/2025 04:14 PM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M

Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50412306001	AR-AQMW01D-60001	SM 2540C	863213		
50412306002	AR-AQMW01S-60001	SM 2540C	863213		
50412306007	AR-AQMW04D-60001	SM 2540C	863213		
50412306008	AR-AQMW04S-60001	SM 2540C	863213		
50412306009	AR-AQMW05D-60001	SM 2540C	863213		
50412306010	AR-AQMW05S-60001	SM 2540C	863213		
50412306003	AR-AQMW02D-60001	SM 2540C	864539		
50412306004	AR-AQMW02S-60001	SM 2540C	864539		
50412306005	AR-AQMW03D-60001	SM 2540C	864539		
50412306006	AR-AQMW03Sa-60001	SM 2540C	864539		
50412306011	AR-AQSW004-20001	SM 2540C	864539		
50412313001	AR-AQMW08D-60001	SM 2540C	863215		
50412313002	AR-AQMW08S-60001	SM 2540C	863215		
50412313003	AR-AQMW09D-60001	SM 2540C	863215		
50412313004	AR-AQMW09S-60001	SM 2540C	863215		
50412313005	Field Blank	SM 2540C	863541		

REPORT OF LABORATORY ANALYSIS

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Date: 10/06/2025 04:14 PM

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY
WO#: 50411767



Company Name: NiSource_Applied Geology
 Street Address: 2402 Hookstown Grade Road
 Suite 200
 Clinton, PA 15026

Contact/Report To: Bethany Flaherty
 Phone #: (614)432-0377
 E-Mail: bflaherty@appliedgeology.net
 Cc E-Mail:

Customer Project #:
 Project Name: NIPSCO Schahfer Semi Annual: March 2025
 Site Collection Info/Facility ID (as applicable):

Invoice To: Accounts Payable
 Invoice E-Mail: ariba.invoices@pacelabs.com
 Purchase Order # (if applicable): PO60482
 Quote #:

Specify Container Size **
 3 3 3 1
 Identify Container Preservative Type***
 1 2 1 2
 Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
 *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Data Deliverables:
 [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other

County / State origin of sample(s): **Indiana**
 Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
 Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Date Results Requested: Field Filtered (if applicable): [] Yes [] No
 Analysis:

2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Proj. Mgr:	
				Tina Sayer	
				AcctNum / Client ID:	
				Table #:	
				Profile / Template:	
				9379-1	
				Prelog / Bottle Ord. ID:	
				EZ 3289636	
				Sample Comment	

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
			Date	Time	Date	Time		Results	Units
AR-AQMW01D-60001	WT							X	X
AR-AQMW01S-60001	WT							X	X
AR-AQMW010D-60001	WT		9/3/25	0800	9/3/25	0800	S	X	X
AR-AQMW010S-60001	WT		9/3/25	0902	9/3/25	0902	S	X	X
AR-AQSW010-20001	WT		9/3/25	0946	9/3/25	0946	S	X	X
AR-AQMW02D-60001	WT							X	X
AR-AQMW02S-60001	WT							X	X
AR-AQMW03D-60001	WI							X	X
AR-AQMW03Sa-60001	WI							X	X
AR-AQMW04D-60001	WI							X	X

Preservation non-conformance identified for sample.	
---	--

Additional Instructions from Pace[®]:
 **6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By: (Printed Name) **Chris Crown**
 Signature: *Chris Crown*

Customer Remarks / Special Conditions / Possible Hazards:
 # Coolers: 4 Thermometer ID: B Correction Factor (°C): -0.1 Obs. Temp. (°C): 0.7 Corrected Temp. (°C): 0.6 On Ice: Y

Relinquished by/Company: (Signature) *Chris DL* Date/Time: 9/14/25 1700

Received by/Company: (Signature) *Fedex* Date/Time:

Tracking Number:

Relinquished by/Company: (Signature) *Fedex* Date/Time: 9/15/25 845

Received by/Company: (Signature) *EU / Peace* Date/Time:

Delivered by: [] In-Person [] Courier

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

✓ FedEX [] UPS [] Other

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Page: 1 of 4

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: NiSource_Applied Geology
Street Address: 2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026
Customer Project #:
Project Name: NIPSCO Schahfer Semi Annual: March 2025
Site Collection Info/Facility ID (as applicable):

Contact/Report To: Bethany Flaherty
Phone #: (614)432-0377
E-Mail: bflaherty@appliedgeology.net
Cc E-Mail:
Invoice To: Accounts Payable
Invoice E-Mail: ariba.invoices@pacelabs.com
Purchase Order # (if applicable): PO60482
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

County / State origin of sample(s): **Indiana**
Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
Date Results Requested:
Field Filtered (if applicable): [] Yes [] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B); Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
			Date	Time	Date	Time		Results	Units
AR-AQMW04S-60001	WT							X	X
AR-AQMW05D-60001	WT							X	X
AR-AQMW05S-60001	WT							X	X
AR-AQMW06D-60001	WT				9/3/25	1120	5	X	X
AR-AQMW06S-60001	WT				9/3/25	1042	5	X	X
AR-AQMW07D-60001	WT				9/4/25	0930	5	X	X
AR-AQMW07S-60001	WT				9/4/25	0925	5	X	X
AR-AQMW08D-60001	WT							X	X
AR-AQMW08S-60001	WT							X	X
AR-AQMW09D-60001	WT							X	X

Specify Container Size **
3 3 3 1
Identify Container Preservative Type***
1 2 1 2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested
2540C Total Dissolved Solids
Ca, Li 6010; Total Metals 6020; Hg 7470
Cl, F, SO4 by 9056
Radium 226+228 (sum)

Proj. Mgr:
Tina Sayer
AcctNum / Client ID:
Table #:
Profile / Template:
9379-1
Prelog / Bottle Ord. ID:
EZ 3289636
Sample Comment

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By:
(Printed Name) **Chris Crown**
Signature: *C/Crown*

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: 4 Thermometer ID: B Correction Factor (°C): -0.1 Obs. Temp. (°C): 0.7 Corrected Temp. (°C): 0.6 On Ice: Y

Relinquished by/Company: (Signature) *C/Blh* AGFS, Inc
Date/Time: 9/4/25 1700
Relinquished by/Company: (Signature) *Fedex*
Date/Time: 9/5/25 845

Received by/Company: (Signature) *Fedex*
Date/Time:
Received by/Company: (Signature) *EA/Pace*
Date/Time: 9/5/25 845

Tracking Number:
Delivered by: [] In-Person [] Courier
 FedEX [] UPS [] Other
Page: 2 of 4



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

EM 9/15/05 12:05

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I

Cooler temp should be above freezing to 6°C

2A. **Cooler Temperature(s):** 0.7/0.6 0.1/0.0 0.5/0.4 0.2/0.1

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

2B. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

3. **Packing Material:** Bubble Bags Bubble Wrap None Other: _____

4. **Ice Type:** Wet Blue None

5. **Courier:** FedEx UPS Client Pace NOW Jett Other

6. **Custody Seal on Cooler/Box Present:** Yes No

(If yes) Seals Intact: Yes No Leave blank if no seals were present

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
7. USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			/
8. Short Hold Time Analysis (48 hours or less)?:			/
9. Time 5035A TC placed in Freezer or Short Holds To Lab:	Time:		
10. Rush TAT Requested (4 days or less):			/
11. Custody Signatures Present?	/		
12. Containers intact?	/		
13. Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		
14. All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) <small>Any non-conformance to pH recommendations will be noted on the container count form</small>	/		
15. Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
16. Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
17. Headspace in VOA Vials (>6mm): See Container Count form for details			/
18. Trip Blank Present?		/	
19. Trip Blank Custody Seals?:			/
20. Extra labels on Terracore Vials? (soils only)			/

Comments: Add Ca to 6010 list per B. Flaherty email. 09/08/25tms

13.1

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Company Name: NiSource_Applied Geology
Street Address: 2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026

Contact/Report To: Bethany Flaherty
Phone #: (614)432-0377
E-Mail: bflaherty@appliedgeology.net
Cc E-Mail:

Customer Project #: NIPSCO Schahfer Semi Annual: March 2025

Invoice To: Accounts Payable
Invoice E-Mail: ariba.invoices@pacelabs.com
Purchase Order # (if applicable): PO60482
Quote #:

Site Collection Info/Facility ID (as applicable):
Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
County / State origin of sample(s): **Indiana**

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
DW PWSID # or WW Permit # as applicable:
Date Results Requested: _____
Field Filtered (if applicable): [] Yes [] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine	
			Date	Time	Date	Time		Results	Units
Field Blank	WT								
Duplicate	WT								
<i>9/10/25</i>									
<i>9/11/25</i>									

Specify Container Size **
 1L, 500mL, 250mL, 125mL, 100mL, 40mL vial, EnCore, TerraCore, 90mL, Other

Identify Container Preservative Type***
 None, HNO3, H2SO4, HCl, NaOH, Zn Acetate, NaHSO4, Sod. Thiosulfate, Ascorbic Acid, MeOH, Other

Analysis Requested

Lab Use Only	Proj. Mgr: Tina Sayer	Preservation non-conformance identified for sample.
	AcctNum / Client ID:	
	Table #:	
	Profile / Template: 9379-1	
	Prelog / Bottle Ord. ID: EZ 3289636	
	Sample Comment	

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By: *Chris Crow*
(Printed Name)
Signature: *CAU*

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: _____ Thermometer ID: _____ Correction Factor (°C): _____ Obs. Temp. (°C): _____ Corrected Temp. (°C): _____ On Ice: _____
See SCR

Relinquished by/Company: (Signature) *CAU* **AGES, Inc**

Date/Time: *9/10/25 1700*

Received by/Company: (Signature) *FE*

Date/Time: _____

Tracking Number:

Relinquished by/Company: (Signature) **FE**

Date/Time: *9/11/25 845*

Received by/Company: (Signature) *CAU* **PACE**

Date/Time: *9/11/25 845*

Delivered by: [] In-Person [] Courier

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

[] FedEx [] UPS [] Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Page: **4** of **4**

13.1
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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

TW 9/11/25 1510

1. Thermometer: 1 2 3 4 5 6 7 8 9 A B C D E F G H I

Cooler temp should be above freezing to 6°C

2A. Cooler Temperature(s): 2.8/2.6 1.3/1.2 2.0/1.8

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

2B. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

3. Packing Material: Bubble Bags Bubble Wrap None Other: _____

4. Ice Type: Wet Blue None

5. Courier: FedEx UPS Client Pace NOW Jett Other

6. Custody Seal on Cooler/Box Present: Yes No

(If yes)Seals Intact: Yes No *Leave blank if no seals were present*

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
7. USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			/
8. Short Hold Time Analysis (48 hours or less)?:			/
9. Time 5035A TC placed in Freezer or Short Holds To Lab:	Time: _____		
10. Rush TAT Requested (4 days or less):			/
11. Custody Signatures Present?	/		
12. Containers intact?	/		
13. Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		
14. All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) <small>Any non-conformance to pH recommendations will be noted on the container count form</small>	/		
15. Residual Chlorine Present (SVOC 625 Pest/PCB 608)			/
16. Residual Chlorine Present (Total/Amenable/Free Cyanide)			/
17. Headspace in VOA Vials (>6mm): See Containter Count form for details			/
18. Trip Blank Present?			/
19. Trip Blank Custody Seals?:			/
20. Extra labels on Terracore Vials? (soils only)			/

Comments:

No sample - page 4. TW 9/11

13.1

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BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c))
Emergency Order: Midcontinent)
Independent System Operator and)
Northern Indiana Public Service)
Company LLC)

Order No. 202-25-19

Federal Power Act Section 202(c))
Emergency Order: Midcontinent)
Independent System Operator and)
CenterPoint Energy Indiana South)

Order No. 202-25-20

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 184B
Schahfer Landfill 2025 Groundwater Monitoring Report
Part 2

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 50412313



Company Name: NiSource_Applied Geology
Street Address: 2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026

Contact/Report To: Bethany Flaherty
Phone #: (614)432-0377
E-Mail: bflaherty@appliedgeology.net
Cc E-Mail:

Customer Project #: []
Project Name: NIPSCO Schahfer Semi Annual: March 2025

Invoice To: Accounts Payable
Invoice E-Mail: ariba.invoices@pacelabs.com

Site Collection Info/Facility ID (as applicable):

Purchase Order # (if applicable): PO60482
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
County / State origin of sample(s): **Indiana**

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
DW PWSID # or WW Permit # as applicable:

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Date Results Requested:
Field Filtered (if applicable): [] Yes [] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl.F.S04 by 9056	Radium 226+228 (sum)							
			Date	Time	Date	Time		Results	Units											
AR-AQMW01D-60001	WT									X	X	X	X							
AR-AQMW01S-60001	WT									X	X	X	X							
AR-AQMW010D-60001	WT									X	X	X	X							
AR-AQMW010S-60001	WT									X	X	X	X							
AR-AQSW010-20001	WT									X	X	X	X							
AR-AQMW02D-60001	WT									X	X	X	X							
AR-AQMW02S-60001	WT									X	X	X	X							
AR-AQMW03D-60001	WT									X	X	X	X							
AR-AQMW03Sa-60001	WT									X	X	X	X							
AR-AQMW04D-60001	WT									X	X	X	X							

Specify Container Size **

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Proj. Mgr:
Tina Sayer
AcctNum / Client ID:
Table #:
Profile / Template:
9379-1
Prelog / Bottle Ord. ID:
EZ 3289636
Sample Comment

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By: *Chris Crown*
Signature: *[Signature]*

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: 1 Thermometer ID: 6 Correction Factor (°C): -0.2 Obs. Temp. (°C): 3.2 Corrected Temp. (°C): 3.0 On Ice: Y

Relinquished by/Company: (Signature) *[Signature]* A6ES, Inc Date/Time: 9/11/25

Received by/Company: (Signature) *[Signature]* Date/Time: 9/11/25 1600

Date/Time: 9/11/25 1600

Tracking Number:

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Date/Time:

Delivered by: In-Person [] Courier

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Date/Time:

[] FedEx [] UPS [] Other

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Date/Time:

Page: 1 of 4

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Company Name: NISource_Applied Geology
Street Address: 2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026

Contact/Report To: Bethany Flaherty
Phone #: (614)432-0377
E-Mail: bflaherty@appliedgeology.net
Cc E-Mail:

Customer Project #:
Project Name: NIPSCO Schahfer Semi Annual: March 2025
Site Collection Info/Facility ID (as applicable):

Invoice To: Accounts Payable
Invoice E-Mail: ariba.invoices@pacelabs.com
Purchase Order # (if applicable): PO60482
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
DW PWSID # or WW Permit # as applicable:
Date Results Requested: Field Filtered (if applicable): [] Yes [] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	C.I.F. SO4 by 9056	Radium 226+228 (sum)								
			Date	Time	Date	Time		Results	Units												
AR-AQM045-60001	WT									X	X	X	X								
AR-AQM05D-60001	WT									X	X	X	X								
AR-AQM05S-60001	WT									X	X	X	X								
AR-AQM06D-60001	WT									X	X	X	X								
AR-AQM06S-60001	WT									X	X	X	X								
AR-AQM07D-60001	WT									X	X	X	X								
AR-AQM07S-60001	WT									X	X	X	X								
AR-AQM08D-60001	WT				9/11/25	0740	5			X	X	X	X								001
AR-AQM08S-60001	WT				9/11/25	0700	5			X	X	X	X								002
AR-AQM09D-60001	WT				9/11/25	0815	5			X	X	X	X								003

Additional Instructions from Pace®:
**6020: B, Be, Cr, Co, As, Se, Mo, Cd, Sb, Ba, Tl, Pb

Collected By: *Chris Crown*
(Printed Name)
Signature: *[Signature]*

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Relinquished by/Company: (Signature) *[Signature]* **AgES, Zn.** Date/Time: **9/11/25**

Received by/Company: (Signature) *[Signature]* Date/Time: **9/11/25 1600**

Tracking Number:
Delivered by: In-Person [] Courier
[] FedEx [] UPS [] Other
Page: **2** of **4**

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Company Name: NiSource_Applied Geology
Street Address: 2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026

Contact/Report To: Bethany Flaherty
Phone #: (614)432-0377
E-Mail: bflaherty@appliedgeology.net
Cc E-Mail:

Customer Project #: NIPSCO Schahfer Semi Annual: March 2025

Invoice To: Accounts Payable
Invoice E-Mail: ariba.invoices@pacelabs.com
Purchase Order # (if applicable): PO60482
Quote #:

Site Collection Info/Facility ID (as applicable):

County / State origin of sample(s): **Indiana**

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

Data Deliverables:
[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
DW PWSID # or WW Permit # as applicable:
Date Results Requested: Field Filtered (if applicable): [] Yes [] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine		2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	C.I.F., SO4 by 9056	Radium 226+228 (sum)	Proj. Mgr: Tina Sayer	AcctNum / Client ID:	Table #:	Profile / Template: 9379-1	Prelog / Bottle Ord. ID: EZ 3289636	Sample Comment	
			Date	Time	Date	Time		Results	Units											
AR-AQM09S-60001	WT				9/11/25	0845	5			X	X	X	X							004
AR-AQM011D-60001	WT									X	X	X	X							
AR-AQM011S-60001	WT									X	X	X	X							
AR-AQM012D-60001	WT									X	X	X	X							
AR-AQM012S-60001	WT									X	X	X	X							
AR-AQM013D-60001	WT									X	X	X	X							
AR-AQM013S-60001	WT									X	X	X	X							
AR-AQM014D-60001	WT									X	X	X	X							
AR-AQM014S-60001	WT									X	X	X	X							
AR-AQSW004-20001	WI									X	X	X	X							

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By: **Chris Crow**
(Printed Name)
Signature: *[Signature]*

Customer Remarks / Special Conditions / Possible Hazards:
Coolers: **2** Thermometer ID: **528** Correction Factor (°C): **5.00** Obs. Temp. (°C): **16.00** Corrected Temp. (°C): **11.00** On Ice:

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **9/11/25**
Relinquished by/Company: (Signature) Date/Time:
Relinquished by/Company: (Signature) Date/Time:
Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) *[Signature]* Date/Time:
Received by/Company: (Signature) Date/Time:
Received by/Company: (Signature) Date/Time:
Received by/Company: (Signature) Date/Time:

Tracking Number: **911/25 1600**
Delivered by: In-Person [] Courier
[] FedEx [] UPS [] Other
Page: **3** of **4**

13.1
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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

9/11/25 1620 cc

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F G H I

Cooler temp should be above freezing to 6°C

2A. **Cooler Temperature(s):** 3.2/3.0

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

2B. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No

3. **Packing Material:** Bubble Bags Bubble Wrap None Other: _____

4. **Ice Type:** Wet Blue None

5. **Courier:** FedEx UPS Client Pace NOW Jett Other

6. **Custody Seal on Cooler/Box Present:** Yes No

(If yes) Seals Intact: Yes No Leave blank if no seals were present

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
7. USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			X
8. Short Hold Time Analysis (48 hours or less)?:		X	
9. Time 5035A TC placed in Freezer or Short Holds To Lab:	Time: _____		
10. Rush TAT Requested (4 days or less):		X	
11. Custody Signatures Present?	X		
12. Containers intact?	X		
13. Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X		
14. All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: <u>HNO3 (<2)</u> H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) <small>Any non-conformance to pH recommendations will be noted on the container count form</small>	X		
15. Residual Chlorine Present (SVOC 625 Pest/PCB 608)			X
16. Residual Chlorine Present (Total/Amenable/Free Cyanide)			X
17. Headspace in VOA Vials (>6mm): See Container Count form for details			X
18. Trip Blank Present?			X
19. Trip Blank Custody Seals?:			X
20. Extra labels on Terracore Vials? (soils only)			X

Comments:

13.1

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APPENDIX C

**SUMMARY OF ANALYTICAL RESULTS – SEPTEMBER 2020 THROUGH
SEPTEMBER 2025**

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-1S						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.22	6.39	7.08	7.13	6.81	NA	6.94
Field Specific Conductance	µS/cm	285	689	220	236	400	NA	375
Boron, Total	mg/L	0.18	0.18	0.16	0.19	0.26	NA	0.18
Calcium, Total	mg/L	41.6	50.1	38.2	35.8	53.9	NA	49
Chloride	mg/L	1.9	4.8	3.2	2.2	6.5	NA	5.7
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	NA	<0.10
Sulfate	mg/L	37.4	58.3	29.5	28.2	48.2	NA	42.8
Total Dissolved Solids	mg/L	147	173	144	130	213	NA	192
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.0093	0.0083
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.19	0.18
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.014	0.013
Selenium, Total	mg/L	NA	NA	NA	NA	NA	0.0061	0.0046
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.328 ± 1.14 (2.65)	0.987 ± 0.785 (1.58)

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Parameter	Units	MW-1S						
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25
Phase I Constituents								
Field pH	s.u.	6.8	7.27	7.43	7.34	7.75	5.98	7.84
Field Specific Conductance	µS/cm	274	685	374	467	616	370	559
Boron, Total	mg/L	0.13	0.22	0.13	0.2	0.19	0.27	0.19
Calcium, Total	mg/L	43.1	77.7	46.4	55.8	75.9	44.3	48.2
Chloride	mg/L	3.6	85	22.1	17.6	6.3	5.9	5.4
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	36.9	58.1	37.9	58.9	150	45.7	44.2
Total Dissolved Solids	mg/L	193	424	183	241	329	186	200
Phase II Constituents								
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010
Barium, Total	mg/L	0.0077	0.018	0.0084	0.013	0.012	0.012	0.011
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.13	0.22	0.13	0.2	0.19	0.27	0.19
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.012	0.013	0.014	0.015	0.011	0.027	0.02
Selenium, Total	mg/L	0.0061	0.0088	0.0047	0.0079	0.0058	0.0053	0.0042
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.523 ± 0.532 (0.965)	1.35 ± 1.09 (1.88)	0.128 ± 0.635 (1.38)	0.458 ± 0.596 (1.10)	0.428 ± 0.632 (1.27)	0.902	0.799

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picocuries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Parameter	Units	Sep-25
Phase I Constituents		
Field pH	s.u.	6.54
Field Specific Conductance	µS/cm	320
Boron, Total	mg/L	0.18
Calcium, Total	mg/L	40.3
Chloride	mg/L	4.4
Fluoride	mg/L	<0.10
Sulfate	mg/L	35.6
Total Dissolved Solids	mg/L	165
Phase II Constituents		
Antimony, Total	mg/L	<0.0010
Arsenic, Total	mg/L	<0.0010
Barium, Total	mg/L	0.011
Beryllium, Total	mg/L	<0.00020
Boron, Total	mg/L	0.18
Cadmium, Total	mg/L	<0.00020
Chromium, Total	mg/L	<0.0020
Cobalt, Total	mg/L	<0.0010
Fluoride	mg/L	<0.10
Lead, Total	mg/L	<0.0010
Lithium, Total	mg/L	<0.02
Mercury, Total	mg/L	<0.002
Molybdenum, Total	mg/L	0.022
Selenium, Total	mg/L	0.0054
Thallium, Total	mg/L	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.504

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-1D						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.7	6.55	7.22	7.26	7.04	NA	6.94
Field Specific Conductance	µS/cm	506	1010	414	512	566	NA	661
Boron, Total	mg/L	0.16	0.15	0.18	0.27	0.44	NA	13.6
Calcium, Total	mg/L	72.2	73.1	70.5	77.6	84.1	NA	89
Chloride	mg/L	4.3	4	3.1	4.4	3.3	NA	5.3
Fluoride	mg/L	0.36	0.29	0.36	0.31	0.36	NA	0.2
Sulfate	mg/L	51.4	55.1	51.3	52.9	56.1	NA	52.9
Total Dissolved Solids	mg/L	273	269	275	294	326	NA	368
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	0.0011	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.023	0.034
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.98	13.6
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	0.38	0.2
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.0028	0.0013
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.453 ± 1.23 (2.58)	0.375 ± 0.773 (1.58)

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Parameter	Units	MW-1D							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.29	7.5	7.51	7.67	7.92	6.47	7.14	7.09
Field Specific Conductance	µS/cm	514	632	641	676	618	620	529	453
Boron, Total	mg/L	4.8	9	7.6	0.98	0.32	1.6	2.2	6.9
Calcium, Total	mg/L	84.7	83.3	87.7	96.6	82.8	91.9	88.6	77.1
Chloride	mg/L	7.7	7.9	7.8	3.8	3.8	27.1	23	13.6
Fluoride	mg/L	0.3	0.23	0.23	0.2	0.25	0.23	0.26	0.27
Sulfate	mg/L	44.2	47.8	40.3	43.8	49.2	77.6	70	51.8
Total Dissolved Solids	mg/L	363	354	337	343	314	354	343	351
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010
Barium, Total	mg/L	0.033	0.036	0.036	0.036	0.027	0.029	0.032	0.031
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	4.8	9	7.6	0.98	0.32	1.6	2.2	6.9
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	0.3	0.23	0.23	0.2	0.25	0.23	0.26	0.27
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	0.0019	0.0016	0.0018
Selenium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.748 ± 0.619 (1.15)	1.67 ± 1.08 (1.68)	0.884 ± 0.890 (1.51)	1.12 ± 0.796 (1.31)	0.765 ± 0.920 (1.80)	0.448	1.56	0.906

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-10S						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.69	6.46	7.31	7.46	7.17	NA	7.63
Field Specific Conductance	µS/cm	592	1110	626	550	471	NA	553
Boron, Total	mg/L	0.07	0.058	0.061	0.078	0.062	NA	0.051
Calcium, Total	mg/L	77.4	75.4	80.7	71.3	59.9	NA	62
Chloride	mg/L	25.8	14.4	28.5	26.7	12.4	NA	11.4
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	NA	<0.10
Sulfate	mg/L	74.5	71.3	83.4	59.7	52.7	NA	61.2
Total Dissolved Solids	mg/L	349	283	351	316	265	NA	317
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.014	0.013
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.057	0.051
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	0.001
Fluoride	mg/L	NA	NA	NA	NA	NA	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	0.0012
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.234 ± 1.22 (2.60)	0.175 ± 0.968 (2.04)

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Parameter	Units	MW-10S							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.87	7.09	8.27	7.83	8.02	6.79	7.69	6.27
Field Specific Conductance	µS/cm	579	426	594	462	539	420	634	524
Boron, Total	mg/L	0.06	0.045	0.053	0.048	0.047	0.047	0.051	0.044
Calcium, Total	mg/L	69	55	77.6	68.3	68	66.3	72	71.7
Chloride	mg/L	20.8	5.9	23.7	5	8.7	7.1	14	34.5
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	62.9	56.7	65.3	49.5	61.7	50.7	73.4	63.1
Total Dissolved Solids	mg/L	329	236	313	259	265	252	320	328
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0043	0.0014	<0.0010
Barium, Total	mg/L	0.019	0.014	0.015	0.015	0.014	0.032	0.017	0.017
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.06	0.045	0.053	0.048	0.047	0.047	0.051	0.044
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	0.0019	<0.0010	0.0011	0.0013	0.0013	0.0082	0.0028	0.001
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.0013	0.0012	<0.0010	0.0011	0.001	0.0012	0.0012	0.0011
Selenium, Total	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	0.0019	<0.0010	0.0012
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.518 ± 0.730 (1.40)	0.273 ± 0.827 (1.75)	0.438 ± 0.625 (1.26)	0.996 ± 1.13 (2.08)	0.661 ± 0.862 (1.78)	2.3	0.662	0.804

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-10D						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.92	6.81	7.56	7.63	7.32	NA	7.59
Field Specific Conductance	µS/cm	358	650	367	438	373	NA	382
Boron, Total	mg/L	0.061	0.06	0.058	0.059	0.063	NA	0.066
Calcium, Total	mg/L	48.5	46.5	49.6	60.8	50.8	NA	49.5
Chloride	mg/L	6.4	4.9	7.1	14.1	4.5	NA	4.3
Fluoride	mg/L	0.15	0.15	0.15	0.11	0.15	NA	<0.10
Sulfate	mg/L	31.5	29	33.1	44.6	25.9	NA	26.8
Total Dissolved Solids	mg/L	189	166	200	230	179	NA	220
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.019	0.018
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.063	0.066
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	0.13	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.0013	0.0011
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	1.53 ± 1.13 (1.97)	1.03 ± 0.885 (1.55)

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Parameter	Units	MW-10D							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.71	7.88	8.35	7.87	7.93	6.96	7.79	7.27
Field Specific Conductance	µS/cm	351	400	424	404	393	325	378	398
Boron, Total	mg/L	0.055	0.065	0.061	0.065	0.06	0.056	0.068	0.059
Calcium, Total	mg/L	52.3	51.6	57.5	53.1	51	50.8	51.1	60.8
Chloride	mg/L	4.7	4.9	5.6	3.8	2.6	3	3.6	18.8
Fluoride	mg/L	0.15	0.15	0.15	0.12	0.15	0.14	0.14	0.13
Sulfate	mg/L	28.6	27.8	24.8	20.4	19.3	11.4	14.3	27.2
Total Dissolved Solids	mg/L	216	210	201	207	182	186	198	253
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	0.02	0.021	0.023	0.02	0.019	0.019	0.021	0.026
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.055	0.065	0.061	0.065	0.06	0.056	0.068	0.059
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	0.15	0.15	0.15	0.12	0.15	0.14	0.14	0.13
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.001	0.0011	0.0011	<0.0010	<0.0010	<0.0010	0.0011	<0.0010
Selenium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	1.25 ± 1.05 (1.85)	0.293 ± 0.917 (1.93)	0.168 ± 0.688 (1.44)	0.901 ± 0.694 (0.852)	1.11 ± 0.907 (1.61)	0.761	1.04	0.891

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	SW-10						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.48	6.75	7.43	7.82	6.94	NA	7.76
Field Specific Conductance	µS/cm	434	823	430	449	485	NA	337
Boron, Total	mg/L	0.015	0.023	0.023	0.027	0.033	NA	0.026
Calcium, Total	mg/L	57.2	66.7	61.8	63.4	60.8	NA	61.2
Chloride	mg/L	12.2	12.6	12	12.7	13.3	NA	13.3
Fluoride	mg/L	0.13	0.13	0.11	0.11	0.17	NA	<0.10
Sulfate	mg/L	62.4	65.4	57.9	58.2	56.3	NA	64.9
Total Dissolved Solids	mg/L	247	256	246	278	259	NA	312
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.056	0.051
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.027	0.026
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	0.14	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.0047	0.0051
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.784 ± 1.41 (2.91)	0.537 ± 1.00 (2.02)

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Parameter	Units	SW-10							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.86	7.52	8.55	6.81	8.52	6.85	7.99	6.53
Field Specific Conductance	µS/cm	391	527	525	496	527	503	478	427
Boron, Total	mg/L	0.024	0.029	0.024	0.075	0.038	0.027	0.026	0.047
Calcium, Total	mg/L	51.4	62.3	72.2	73.6	62.2	61.2	53.7	61.5
Chloride	mg/L	9.8	12.3	13	11.8	10.6	9.3	6.5	7.8
Fluoride	mg/L	0.14	0.14	0.15	0.13	0.13	0.15	<0.10	0.17
Sulfate	mg/L	44.3	63	67	64.4	56	60.5	77.8	58.7
Total Dissolved Solids	mg/L	225	301	257	284	243	261	221	264
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	0.0013	0.0012	<0.0010	0.0022	<0.0010	0.0015	0.0015	0.0014
Barium, Total	mg/L	0.049	0.067	0.052	0.1	0.0024	0.083	0.056	0.063
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.024	0.029	0.024	0.075	0.038	0.027	0.026	0.047
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010
Fluoride	mg/L	0.14	0.14	0.15	0.13	0.13	0.15	<0.10	0.17
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.0042	0.005	0.0051	0.0079	0.0023	0.0058	0.0036	0.0066
Selenium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.580 ± 0.612 (1.20)	0.502 ± 0.934 (1.95)	0.233 ± 0.698 (1.49)	3.41 ± 2.17 (2.47)	0.0939 ± 0.981 (2.19)	0.298	1.77	1.23

Notes:

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-2S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.42	7.12	7.19	NA	6.58	7.15	7.94	7.3	8.01	7.41	7.57	7.18
Field Specific Conductance	µS/cm	705	671	975	NA	929	1080	1000	1130	971	1050	645	963
Boron, Total	mg/L	1.3	0.92	2.1	NA	1.3	2.2	1.9	2.9	1.8	2.9	2	3.3
Calcium, Total	mg/L	113	126	145	NA	133	155	113	168	134	157	126	137
Chloride	mg/L	0.81	0.91	1.4	NA	2	2.6	2.7	2.2	2.2	4.8	3.1	3.4
Fluoride	mg/L	0.22	0.17	0.21	NA	0.13	0.2	0.28	0.29	0.25	0.35	0.36	0.43
Sulfate	mg/L	182	201	313	NA	190	372	236	353	251	356	238	332
Total Dissolved Solids	mg/L	435	487	634	NA	584	729	608	698	542	660	535	627
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0031	0.0012	0.0033	0.0021	0.0031	0.0017	0.0065	0.0032	0.0047
Barium, Total	mg/L	NA	NA	NA	0.08	0.059	0.12	0.084	0.11	0.077	0.14	0.075	0.098
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.8	1.3	2.2	1.9	2.9	1.8	2.9	2	3.3
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.19	0.13	0.2	0.28	0.29	0.25	0.35	0.36	0.43
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	0.022	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.019	0.012	0.023	0.013	0.024	0.023	0.019	0.015	0.026
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.000 ± 1.05 (2.49)	0.0325 ± 1.45 (3.06)	1.21 ± 1.18 (2.18)	0.236 ± 0.765 (1.62)	0.742 ± 1.04 (1.95)	1.43 ± 1.16 (2.01)	1.44	0.853	1.82

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-2D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.97	8.02	8.12	NA	6.81	7.6	8.62	7.68	8.62	7.32	7.04	6.65
Field Specific Conductance	µS/cm	16000	6303	605	NA	636	4300	3800	8810	2870	2230	835	1480
Boron, Total	mg/L	18.9	13.5	12.4	NA	15.7	14	9.1	19.3	9.3	6.4	10.8	10.5
Calcium, Total	mg/L	199	129	152	NA	126	138	73.2	91.4	63.7	88.1	57.8	68.6
Chloride	mg/L	589	120	99.6	NA	113	101	55.3	243	29	40.5	34.9	30
Fluoride	mg/L	<0.10	0.5	1	NA	0.52	0.72	1.1	1.6	0.91	0.7	1.1	1.1
Sulfate	mg/L	8570	3300	2900	NA	3240	2840	1620	4390	1000	904	934	780
Total Dissolved Solids	mg/L	13800	5120	4570	NA	5160	4210	2480	7410	1740	1540	1620	1500
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.001	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.042	0.032	0.029	0.022	0.016	0.028	0.033	0.037	0.039
Beryllium, Total	mg/L	NA	NA	NA	<0.0004	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	16.2	15.7	14	9.1	19.3	9.3	6.4	10.8	10.5
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	0.0051	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<1	0.52	0.72	1.1	1.6	0.91	0.7	1.1	1.1
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.064	0.057	0.053	<0.020	0.0585	0.037	0.033	0.0234	0.0248
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	1.9	1.4	1.2	0.68	2.1	0.7	0.76	1.3	1.3
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	4.86 ± 1.99 (2.73)	2.01 ± 1.22 (2.00)	7.55 ± 2.13 (1.83)	2.13 ± 1.02 (1.24)	2.19 ± 1.27 (2.02)	2.27 ± 1.13 (1.34)	1.98	1.24	1.36

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-3Sa											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.19	7.09	6.95	NA	7.53	7.58	7.31	7.37	7.84	6.5	7.56	7.36
Field Specific Conductance	µS/cm	644	720	883	NA	996	800	794	1210	1090	792	975	1420
Boron, Total	mg/L	1.5	1.3	1.6	NA	1.9	1.5	1.7	2	1.4	1.9	2	1.6
Calcium, Total	mg/L	97.1	108	126	NA	154	135	140	163	149	127	126	134
Chloride	mg/L	0.99	1	1.7	NA	2.1	2.4	2.2	15.4	1.9	1.4	1.1	2
Fluoride	mg/L	0.37	0.28	0.29	NA	0.2	0.24	0.2	0.25	0.26	0.21	0.19	0.26
Sulfate	mg/L	155	208	272	NA	331	289	249	394	343	181	195	233
Total Dissolved Solids	mg/L	411	478	554	NA	840	594	576	775	623	524	536	572
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0066	0.0047	0.0055	0.0086	0.0026	0.0031	0.0029	0.0016	0.0073
Barium, Total	mg/L	NA	NA	NA	0.12	0.13	0.073	0.1	0.11	0.085	0.064	0.071	0.078
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
Boron, Total	mg/L	NA	NA	NA	2.8	1.9	1.5	1.7	2	1.4	1.9	2	1.6
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	0.0035	0.0027	0.0043	0.0019	<0.0010	0.0015	0.0032	0.0015
Fluoride	mg/L	NA	NA	NA	0.23	0.2	0.24	0.2	0.25	0.26	0.21	0.19	0.26
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.032	0.036	0.023	0.021	0.035	0.03	0.025	0.022	0.026
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	0.0018
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.96 ± 1.24 (1.82)	0.741 ± 1.03 (1.88)	0.873 ± 0.978 (1.86)	1.35 ± 1.13 (1.85)	1.94 ± 1.04 (1.32)	1.06 ± 1.13 (2.01)	0.35	1.56	1.89

Notes:
mg/L: Milligram per liter.
pCi/L: Pico-curies per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-3D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.49	7.55	7.74	NA	7.95	7.38	7.07	8.06	8.47	7.06	7.73	6.86
Field Specific Conductance	µS/cm	27200	26635	2720	NA	2810	2210	23900	25900	29900	24400	16500	17700
Boron, Total	mg/L	10.6	10.6	10.9	NA	12.4	12.3	11.6	12.2	14.2	14.6	10.1	12
Calcium, Total	mg/L	321	282	302	NA	336	276	290	315	315	318	177	284
Chloride	mg/L	989	776	987	NA	840	1050	1000	802	1060	1030	519	729
Fluoride	mg/L	<0.10	<0.10	<0.10	NA	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
Sulfate	mg/L	19200	<0.25	17100	NA	13900	17800	16200	14500	17800	17000	9480	12500
Total Dissolved Solids	mg/L	28300	24800	25600	NA	28200	25000	23600	22400	26100	25000	15500	20100
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.002	<0.0050	<0.0050	<0.0020	<0.0020	<0.0050	<0.0050	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0023	0.0021	0.0025	0.0022	0.0023	0.0022	0.002	0.0023	0.0021
Barium, Total	mg/L	NA	NA	NA	0.033	0.034	0.03	0.033	0.029	0.035	0.033	0.023	0.029
Beryllium, Total	mg/L	NA	NA	NA	<0.001	<0.0020	<0.00040	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	17.2	12.4	12.3	11.6	12.2	14.2	14.6	10.1	12
Cadmium, Total	mg/L	NA	NA	NA	<0.0004	<0.0010	<0.0010	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0040	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<1	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.005	<0.0050	<0.0050	<0.0020	<0.0030	<0.010	<0.010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.12	0.095	0.07	0.11	0.0738	0.099	0.0776	0.0416	0.0659
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.13	0.11	0.16	0.18	0.26	0.1	0.16	0.33	0.32
Selenium, Total	mg/L	NA	NA	NA	0.0041	0.0046	0.0032	0.0032	0.0037	0.0038	0.0038	0.0021	0.0032
Thallium, Total	mg/L	NA	NA	NA	<0.005	<0.0050	<0.0050	<0.0020	<0.0030	<0.010	<0.010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	6.89 ± 2.66 (2.67)	5.95 ± 1.88 (2.00)	5.45 ± 1.80 (1.99)	3.71 ± 1.31 (1.48)	6.23 ± 1.82 (1.55)	7.69 ± 2.12 (1.77)	4.85	3.71	5.16

Notes:
mg/L: Milligram per liter.
pCi/L: Picouries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-4S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.27	7.13	7.11	NA	7.67	7.53	7.74	7.34	8.01	6.2	7.45	6.98
Field Specific Conductance	µS/cm	1510	1290	1540	NA	1470	1460	1540	1480	1390	1050	1070	1130
Boron, Total	mg/L	1.5	1.4	2	NA	1.9	1.7	1.6	1.8	1.8	0.8	1.1	2
Calcium, Total	mg/L	151	164	176	NA	197	169	208	182	168	136	136	108
Chloride	mg/L	22.6	11.1	15.1	NA	12.4	12.6	8.5	11.3	7.3	8.1	7.7	11.1
Fluoride	mg/L	0.19	0.16	0.2	NA	<0.10	0.19	0.19	0.18	0.21	0.18	0.18	0.27
Sulfate	mg/L	527	478	583	NA	554	538	531	439	385	208	282	363
Total Dissolved Solids	mg/L	1030	911	1050	NA	1040	976	1030	932	811	650	702	747
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.005	0.0026	0.0052	0.0042	0.0052	0.0029	0.0067	0.0042	0.0054
Barium, Total	mg/L	NA	NA	NA	0.052	0.04	0.044	0.045	0.042	0.035	0.042	0.037	0.036
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	2.3	1.9	1.7	1.6	1.8	1.8	0.8	1.1	2
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	<0.10	0.19	0.19	0.18	0.21	0.18	0.18	0.27
Lead, Total	mg/L	NA	NA	NA	<0.001	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.1	0.072	0.069	0.037	0.051	0.029	0.062	0.054	0.13
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.875 ± 1.19 (2.16)	1.41 ± 1.31 (2.33)	1.01 ± 1.04 (1.84)	1.48 ± 0.973 (1.38)	0.895 ± 1.40 (2.60)	1.21 ± 1.26 (2.20)	1.92	0.358	1.58

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picocuries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADE ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-4D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.25	7.28	7.32	NA	7.59	7.07	7.77	7.59	7.49	6.43	7.11	6.96
Field Specific Conductance	µS/cm	4540	3630	4080	NA	4340	3790	4420	4710	3380	3580	3030	2180
Boron, Total	mg/L	4.8	3.8	4.4	NA	5.5	4.9	4.6	5.7	4.9	5	4.7	5.2
Calcium, Total	mg/L	273	198	244	NA	253	269	252	285	224	245	186	235
Chloride	mg/L	139	100	120	NA	126	133	124	128	105	117	92.6	110
Fluoride	mg/L	0.26	0.23	0.26	NA	<0.10	0.19	0.22	0.2	0.23	<1.0	0.24	0.26
Sulfate	mg/L	2400	1480	2060	NA	2240	2480	2140	2100	1720	1840	1500	1780
Total Dissolved Solids	mg/L	3570	2660	3130	NA	3380	3660	3140	3540	2920	2770	2460	2970
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.062	0.051	0.054	0.042	0.047	0.036	0.049	0.038	0.044
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	4.3	5.5	4.9	4.6	5.7	4.9	5	4.7	5.2
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.25	<0.10	0.19	0.22	0.2	0.23	<1.0	0.24	0.26
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.026	<0.020	0.023	<0.020	<0.020	<0.02	<0.02	<0.02	0.0204
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.99	1.6	1.4	1.2	1	1.4	1.9	1.6	1.5
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	2.21 ± 1.42 (2.34)	1.72 ± 1.20 (1.88)	2.37 ± 1.26 (1.72)	1.92 ± 1.06 (1.57)	2.61 ± 1.51 (2.27)	1.42 ± 1.12 (1.94)	3.12	1.65	3.17

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-5S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.11	7.02	7.07	NA	7.46	7.54	7.47	7.43	8.4	6.54	7.43	6.65
Field Specific Conductance	µS/cm	1780	1480	1830	NA	1080	1280	1400	1570	1160	1370	856	1130
Boron, Total	mg/L	5.2	3.8	3.5	NA	3	1.8	2.4	2.4	2.6	3.3	1.5	2.5
Calcium, Total	mg/L	264	270	275	NA	266	173	212	254	197	214	119	197
Chloride	mg/L	19.8	11.6	15.1	NA	13.7	11	14.9	9.4	17.4	28.5	8.6	7.2
Fluoride	mg/L	0.19	0.15	0.2	NA	0.21	0.33	0.3	0.3	0.32	0.33	0.32	0.3
Sulfate	mg/L	829	772	747	NA	643	357	485	722	392	541	189	461
Total Dissolved Solids	mg/L	1400	1290	1370	NA	867	798	953	1120	873	1030	526	908
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0031	0.0027	0.0026	0.0031	0.0045	0.0031	0.0059	0.0045	0.004
Barium, Total	mg/L	NA	NA	NA	0.26	0.23	0.21	0.18	0.19	0.17	0.19	0.11	0.22
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	3.7	3	1.8	2.4	2.4	2.6	3.3	1.5	2.5
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.23	0.21	0.33	0.3	0.3	0.32	0.33	0.32	0.3
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.0020	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.084	0.061	0.022	0.03	0.023	0.034	0.57	0.046	0.037
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	2.04 ± 1.47 (2.43)	0.608 ± 0.927 (1.73)	2.65 ± 1.59 (2.24)	1.71 ± 0.942 (1.24)	1.93 ± 1.05 (1.34)	2.66 ± 1.40 (2.03)	1.58	0.872	2.33

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADE ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-5D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.15	7.1	7.27	NA	7.61	7.01	7.65	7.8	7.98	6.41	6.39	6.09
Field Specific Conductance	µS/cm	4910	5752	4480	NA	7960	403	7400	6820	10200	7300	5510	3130
Boron, Total	mg/L	11.4	13	10.9	NA	15.8	12.9	14.3	14.6	12.1	14.6	15.1	13.9
Calcium, Total	mg/L	273	289	294	NA	421	328	396	366	481	429	398	457
Chloride	mg/L	146	189	110	NA	289	179	232	212	269	280	210	683
Fluoride	mg/L	<0.10	<0.10	0.12	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
Sulfate	mg/L	2330	2980	2230	NA	4310	2910	3640	3300	5080	4770	3890	4850
Total Dissolved Solids	mg/L	3880	5180	3570	NA	6330	4530	5720	5420	7650	6970	5710	8100
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	0.0012	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.042	0.046	0.049	0.056	0.048	0.065	0.044	0.065	0.067
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00060	<0.00020
Boron, Total	mg/L	NA	NA	NA	15.8	15.8	12.9	14.3	14.6	12.1	14.6	15.1	13.9
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<1	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.041	0.028	0.023	0.023	0.021	0.0419	0.0395	0.0201	0.0405
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.89	0.98	0.58	0.7	0.64	1.5	1.6	2	2.6
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.001	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	3.53 ± 1.76 (2.55)	7.19 ± 3.35 (5.36)	2.81 ± 1.33 (1.69)	3.10 ± 1.36 (1.88)	2.66 ± 1.21 (1.48)	5.23 ± 2.05 (2.54)	4.6	6.63	4.93

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADE ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-6S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	6.12	6.05	6.45	NA	7.05	7.15	7	6.15	6.07	5.02	5.96	5.2
Field Specific Conductance	µS/cm	400	401	353	NA	166	321	341	480	354	302	500	426
Boron, Total	mg/L	0.043	0.033	0.041	NA	0.033	0.026	0.026	0.039	0.037	0.029	0.037	0.045
Calcium, Total	mg/L	50	57.2	42.7	NA	23.5	33.4	62.7	55	48.2	37.2	50	39.3
Chloride	mg/L	5.8	11.1	5.9	NA	4	8.6	3	1.9	5.2	16	15	13.6
Fluoride	mg/L	<0.10	<0.10	0.11	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	155	170	131	NA	59.8	106	178	171	152	87.5	139	111
Total Dissolved Solids	mg/L	229	271	206	NA	162	193	268	272	237	163	262	221
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.044	0.042	0.043	0.078	0.04	0.042	0.045	0.042	0.033
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.048	0.033	0.026	0.026	0.039	0.037	0.029	0.037	0.045
Cadmium, Total	mg/L	NA	NA	NA	0.00047	<0.00020	0.00069	0.00052	0.0013	0.0035	0.0022	0.0014	0.00039
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.028	0.0091	0.029	0.034	0.13	0.17	0.058	0.034	0.0096
Fluoride	mg/L	NA	NA	NA	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.0011	<0.0010	0.0024	<0.0010	0.0012	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.000 ± 1.07 (2.71)	0.329 ± 1.01 (2.27)	1.59 ± 1.12 (1.91)	0.549 ± 0.880 (1.69)	0.980 ± 1.17 (2.09)	0.594 ± 1.01 (2.15)	0.216	1.12	1.07

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picocuries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemens per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-6D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.42	7.02	7.91	NA	7.64	6.88	7.11	7.77	7.36	6.17	6.79	5.02
Field Specific Conductance	µS/cm	499	445	479	NA	538	529	488	565	436	465	596	392
Boron, Total	mg/L	0.024	0.026	0.023	NA	0.025	0.024	0.027	0.027	0.024	0.025	0.03	0.022
Calcium, Total	mg/L	73.9	71.1	69.8	NA	72.5	73.2	76.4	80.5	71.5	71.1	73.2	64.5
Chloride	mg/L	13.6	15.1	15.6	NA	15.4	13.3	13.5	14.2	14.2	15.1	14.3	11.1
Fluoride	mg/L	0.27	0.25	0.3	NA	0.25	0.28	0.27	0.24	0.25	0.25	0.26	0.26
Sulfate	mg/L	78.1	83.3	83	NA	89.3	79.7	74.5	66.4	56	66.3	58.6	78.5
Total Dissolved Solids	mg/L	269	293	286	NA	342	327	275	290	253	267	279	275
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0017	0.0026	0.0023	0.002	0.0012	0.0013	0.0011	0.0015	0.0018
Barium, Total	mg/L	NA	NA	NA	0.03	0.029	0.032	0.031	0.031	0.029	0.028	0.032	0.028
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.025	0.025	0.024	0.027	0.027	0.024	0.025	0.03	0.022
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.26	0.25	0.28	0.27	0.24	0.25	0.25	0.26	0.26
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0053	0.0052	0.0059	0.0061	0.0057	0.0047	0.005	0.0042	0.0048
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.367 ± 1.12 (2.52)	0.519 ± 0.979 (1.96)	0.640 ± 0.829 (1.60)	0.0736 ± 0.686 (1.37)	0.806 ± 0.981 (1.81)	0.952 ± 1.46 (2.62)	0.459	1.14	0.802

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-7S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	6.54	6.77	7.49	NA	6.79	7.29	6.91	6.97	7.06	6.1	6.31	5.78
Field Specific Conductance	µS/cm	419	497	536	NA	607	584	538	537	473	670	846	684
Boron, Total	mg/L	0.034	0.021	0.029	NA	0.023	0.032	0.019	0.032	0.02	0.03	0.022	0.034
Calcium, Total	mg/L	51.4	62.2	69.3	NA	65.6	64.8	64.5	62.6	67.2	80.5	87	88.4
Chloride	mg/L	4	8.5	10.2	NA	5.4	10.5	5.4	4	3.2	8.3	5.8	4.9
Fluoride	mg/L	0.28	0.18	0.31	NA	0.17	0.28	0.24	0.26	0.17	0.22	0.17	0.24
Sulfate	mg/L	71.8	98.8	104	NA	135	123	117	90.7	122	185	211	221
Total Dissolved Solids	mg/L	237	285	342	NA	401	340	286	285	292	402	447	466
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Arsenic, Total	mg/L	NA	NA	NA	0.0014	0.0014	0.0015	0.0012	0.0015	0.0011	0.0011	0.0012	0.0015
Barium, Total	mg/L	NA	NA	NA	0.052	0.04	0.07	0.047	0.051	0.037	0.082	0.072	0.092
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.026	0.023	0.032	0.019	0.032	0.02	0.03	0.022	0.034
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	0.004	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.0036	0.0021	0.0019	0.0016	0.0045	0.0026	0.0023	0.0028	0.0024
Fluoride	mg/L	NA	NA	NA	0.23	0.17	0.28	0.24	0.26	0.17	0.22	0.17	0.24
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0035	0.0029	0.0042	0.0027	0.0049	0.0027	0.0037	0.0023	0.0038
Selenium, Total	mg/L	NA	NA	NA	0.0011	0.002	<0.0010	0.0011	<0.0010	0.0016	0.0011	0.0012	0.0013
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.136 ± 1.15 (2.56)	1.09 ± 1.01 (1.89)	1.20 ± 1.12 (2.07)	0.438 ± 0.809 (1.70)	1.08 ± 1.46 (2.73)	0.444 ± 0.848 (1.74)	0.639	2.29	0.498

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-7D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.12	7.12	7.63	NA	7	7.06	6.93	7.14	7.35	6.62	6.97	6.05
Field Specific Conductance	µS/cm	812	1090	1160	NA	251	693	556	615	775	987	1940	601
Boron, Total	mg/L	0.038	0.036	0.036	NA	0.039	0.035	0.035	0.037	0.036	0.034	0.1	0.036
Calcium, Total	mg/L	121	107	112	NA	111	95	109	95	98.3	115	119	84.3
Chloride	mg/L	19.2	39.6	37.6	NA	39.4	29.9	31.8	28	28.8	24.2	73.1	19
Fluoride	mg/L	0.16	0.13	0.18	NA	<0.10	0.16	0.16	0.13	0.13	0.14	0.14	0.16
Sulfate	mg/L	218	299	373	NA	330	225	207	207	206	321	645	95.7
Total Dissolved Solids	mg/L	554	727	787	NA	848	586	635	585	521	637	1290	378
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0096	0.0073	0.016	0.018	0.0083	0.0064	0.0082	0.0076	0.011
Barium, Total	mg/L	NA	NA	NA	0.047	0.042	0.039	0.048	0.043	0.046	0.046	0.051	0.039
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.035	0.039	0.035	0.035	0.037	0.036	0.034	0.1	0.036
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	<0.10	0.16	0.16	0.13	0.13	0.14	0.14	0.16
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0049	0.0076	0.0068	0.0048	0.0057	0.0044	0.0042	0.0053	0.0043
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.416 ± 1.33 (2.78)	1.56 ± 1.20 (2.04)	1.40 ± 1.06 (1.85)	0.594 ± 1.19 (2.34)	1.13 ± 1.06 (1.73)	0.636 ± 0.828 (1.60)	1.18	1.48	1.06

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-8S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	8.24	7.99	9.01	NA	7.98	7.48	6.83	7.55	8.01	7.02	7.42	7.35
Field Specific Conductance	µS/cm	262	265	288	NA	328	275	208	264	215	207	143	220
Boron, Total	mg/L	0.031	0.024	0.027	NA	0.024	0.028	0.025	0.024	0.023	0.027	0.031	0.029
Calcium, Total	mg/L	30.3	31.2	34.9	NA	31.9	29.8	28.1	31	27.4	25.5	20.4	28.5
Chloride	mg/L	11.1	10.1	10.2	NA	10.2	9.5	8.8	8.6	8.9	6.6	2.9	5.3
Fluoride	mg/L	<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	18.2	19.7	28.6	NA	24.2	21.2	20.3	22.7	19.3	18.6	17.5	28.5
Total Dissolved Solids	mg/L	178	155	185	NA	160	152	123	144	119	116	85	130
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.0045	0.0041	0.007	0.0067	0.013	0.0046	0.0093	0.0067	0.0042
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.026	0.024	0.028	0.025	0.024	0.023	0.027	0.031	0.029
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	0.0002	<0.00020	0.00036	<0.00020	0.00052	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	0.002	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.000 ± 1.16 (2.62)	0.266 ± 1.12 (2.42)	0.000 ± 1.12 (2.68)	1.42 ± 1.09 (1.83)	2.05 ± 1.09 (1.26)	0.634 ± 1.30 (2.64)	1.02	0.24	1.25

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-8D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.29	7.53	8.51	NA	7.52	7.26	6.85	7.16	7.53	6.83	7.74	7.14
Field Specific Conductance	µS/cm	451	419.5	424	NA	451	387	415	424	381	401	433	357
Boron, Total	mg/L	0.21	0.26	0.26	NA	0.23	0.31	0.27	0.38	0.27	0.27	0.24	0.37
Calcium, Total	mg/L	57	52.8	52	NA	55.9	48	54.2	50	53.2	52.2	55.6	49.8
Chloride	mg/L	8.6	8.1	7.8	NA	8.3	8	8.7	7.7	7.7	8.5	8	7.7
Fluoride	mg/L	0.14	0.13	0.2	NA	<0.10	0.17	0.16	0.16	0.13	0.15	0.15	0.17
Sulfate	mg/L	39.2	31.9	33.4	NA	37	26.1	32.4	24.4	32.3	31.7	35.4	26.5
Total Dissolved Solids	mg/L	235	239	234	NA	235	221	221	224	228	222	241	229
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.036	0.04	0.039	0.044	0.04	0.044	0.039	0.047	0.04
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.35	0.23	0.31	0.27	0.38	0.27	0.27	0.24	0.37
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	<0.10	0.17	0.16	0.16	0.13	0.15	0.15	0.17
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0022	0.0029	0.0024	0.0027	0.0024	0.0026	0.0026	0.003	0.0024
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.135 ± 1.03 (2.36)	0.994 ± 1.15 (2.15)	0.957 ± 1.03 (1.78)	0.412 ± 0.842 (1.90)	1.31 ± 1.12 (1.83)	0.183 ± 1.08 (2.23)	0.597	1.92	0.7

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-9S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.49	7.31	8.69	NA	8.36	7.05	6.9	7.12	7.61	6.8	7.43	6.9
Field Specific Conductance	µS/cm	607	546	535	NA	602	625	498	541	478	562	950	417
Boron, Total	mg/L	0.063	0.055	0.068	NA	0.087	0.073	0.069	0.077	0.092	0.075	0.072	0.025
Calcium, Total	mg/L	81.7	74.7	73.5	NA	71	88.8	69	76.7	72.4	74.6	82.2	54.6
Chloride	mg/L	8.2	6.2	7	NA	7.7	10.1	10.7	8.8	8.3	8.9	9.7	16.3
Fluoride	mg/L	<0.10	<0.10	0.11	NA	0.11	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	0.41
Sulfate	mg/L	78.9	69.8	74.5	NA	66.8	98.2	67.7	72.4	73.3	73.4	91.2	45.4
Total Dissolved Solids	mg/L	344	307	300	NA	297	354	291	323	295	299	345	279
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	0.001	0.0011	0.0014	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.063	0.062	0.086	0.061	0.076	0.07	0.081	0.087	0.049
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.069	0.087	0.073	0.069	0.077	0.092	0.075	0.072	0.025
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	0.0023	0.0036	0.0039	0.0036	0.0014	0.0015	0.0027	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	0.11	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	0.41
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0022	0.0024	0.0026	0.0024	0.0024	0.0027	0.0026	0.0026	0.003
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.741 ± 1.22 (2.46)	0.755 ± 0.982 (1.88)	0.677 ± 1.04 (1.97)	1.19 ± 0.961 (1.53)	0.468 ± 0.937 (1.80)	0.385 ± 1.14 (2.28)	1.07	1.06	0.796

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picocuries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemens per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-9D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.99	7.68	8.44	NA	7.62	7.31	6.86	7.31	7.7	6.94	5.05	6.5
Field Specific Conductance	µS/cm	518	553	551	NA	629	504	557	571	525	539	786	500
Boron, Total	mg/L	0.33	0.63	0.34	NA	1.1	1.3	1.5	0.26	0.27	0.37	0.41	1.6
Calcium, Total	mg/L	61.6	54.7	64	NA	49.1	43.7	45.3	69.3	76.7	65.4	66.5	44
Chloride	mg/L	7.9	9.9	9.9	NA	11.8	14	15.8	8.7	9.5	9.2	9.4	17.8
Fluoride	mg/L	0.14	0.22	0.2	NA	0.19	0.35	0.4	<0.10	<0.10	0.14	0.18	0.41
Sulfate	mg/L	55.3	42.4	64.9	NA	51.1	25.4	7.4	66.3	96.8	60.9	67.5	1.8
Total Dissolved Solids	mg/L	290	283	324	NA	302	299	290	309	333	299	300	318
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.045	0.049	0.047	0.048	0.067	0.075	0.056	0.06	0.047
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.7	1.1	1.3	1.5	0.26	0.27	0.37	0.41	1.6
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.37	0.19	0.35	0.4	<0.10	<0.10	0.14	0.18	0.41
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.053	0.037	0.04	0.048	<0.020	<0.02	0.0245	<0.02	0.0438
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0031	0.0025	0.0033	0.0037	0.0024	0.0024	0.0024	0.0026	0.0024
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.620 ± 1.42 (2.95)	1.25 ± 1.16 (2.19)	0.294 ± 0.856 (1.75)	1.32 ± 0.990 (1.56)	0.490 ± 1.28 (2.61)	0.337 ± 1.13 (2.22)	0.884	0.568	1.16

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-11S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.62	7.23	7.85	NA	8.2	7.02	7.19	7.46	7.83	6.58	7.16	6.87
Field Specific Conductance	µS/cm	696	685	607	NA	690	660	715	618	744	713	816	863
Boron, Total	mg/L	0.054	0.042	0.051	NA	0.049	0.053	0.039	0.054	0.052	0.053	0.035	0.067
Calcium, Total	mg/L	90	87.5	86.3	NA	87.4	89.5	88.2	91.8	87	96.4	84.1	69.9
Chloride	mg/L	18	12.7	13.2	NA	12.3	19.2	11.9	19.5	16.3	11	33.1	9.7
Fluoride	mg/L	0.19	<0.10	0.2	NA	0.11	0.19	0.16	0.17	0.14	0.16	0.19	0.27
Sulfate	mg/L	81.1	42.5	88.4	NA	73.4	86.2	34.3	106	78.6	119	333	46.8
Total Dissolved Solids	mg/L	361	353	351	NA	398	382	367	398	380	391	767	339
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.032	0.051	0.04	0.097	0.029	0.034	0.033	0.033	0.053
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.049	0.049	0.053	0.039	0.054	0.052	0.053	0.035	0.067
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	0.0049	0.0024	0.0099	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Fluoride	mg/L	NA	NA	NA	0.15	0.11	0.19	0.16	0.17	0.14	0.16	0.19	0.27
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.003	0.0034	0.0064	0.0037	0.0068	0.0039	0.01	0.0044	0.0024
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.281 ± 1.02 (2.39)	0.874 ± 0.913 (1.59)	1.53 ± 1.02 (1.63)	0.862 ± 0.957 (1.69)	0.752 ± 0.960 (1.88)	0.598 ± 1.17 (2.52)	0.391	0.81	1.15

Notes:
mg/L: Milligram per liter.
pCi/L: Picouries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-11D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.24	7.31	7.57	NA	7.61	7.26	7.17	7.1	8.31	6.61	7.53	6.31
Field Specific Conductance	µS/cm	27400	33035	26700	NA	2660	1128	1240	24600	32200	1060	1470	2210
Boron, Total	mg/L	6.1	8.4	7.1	NA	7.2	6.4	8.2	10	12.4	4.1	0.36	0.73
Calcium, Total	mg/L	534	386	366	NA	351	381	306	379	353	234	65.5	111
Chloride	mg/L	1110	1120	1120	NA	1030	1060	852	1110	1100	264	24	74
Fluoride	mg/L	<0.10	<0.10	<0.10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.15	0.13
Sulfate	mg/L	17000	<0.25	17500	NA	16200	17100	13800	18500	18200	4580	41	1060
Total Dissolved Solids	mg/L	28500	30500	27900	NA	26200	23600	25600	29200	27500	8340	229	1870
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	0.0026	0.0031	0.0071	0.0037	0.0032	0.0027	0.002	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.034	0.022	0.044	0.041	0.03	0.025	0.1	0.04	0.052
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.0020	<0.00040	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.35	7.2	6.4	8.2	10	12.4	4.1	0.36	0.73
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.0010	<0.00040	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	0.0021	<0.010	0.0024	<0.0040	<0.0040	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.15	0.13
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	0.14	0.14	0.17	0.163	0.16	0.0502	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0059	0.018	0.017	0.022	0.024	0.026	0.013	0.0046	0.0044
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.0046	0.0039	0.0041	0.0051	0.0043	0.0017	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.07 ± 1.62 (3.24)	5.41 ± 1.84 (1.98)	3.95 ± 1.47 (1.77)	0.593 ± 1.04 (1.99)	5.15 ± 1.68 (1.68)	2.34 ± 1.82 (2.93)	3.77	0.5	1.4

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-12S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.51	6.99	7.94	NA	8.8	7.09	7.1	7.51	7.63	6.67	6.67	6.91
Field Specific Conductance	µS/cm	496	348.1	439	NA	587	587	1580	320	513	488	470	520
Boron, Total	mg/L	0.12	0.064	0.093	NA	0.074	0.094	0.068	0.079	0.067	0.08	0.068	0.11
Calcium, Total	mg/L	56.4	45.3	54.2	NA	53.2	71.3	43	69.8	60.2	59.3	49.9	50.6
Chloride	mg/L	9.3	11.7	8.5	NA	3	10.6	12.8	6.3	6.4	12.2	15.8	11.9
Fluoride	mg/L	0.42	0.4	0.42	NA	0.27	0.5	0.36	0.37	0.3	0.46	0.32	0.44
Sulfate	mg/L	56.7	22.9	42.3	NA	28.2	89.4	34.1	97.4	53.3	62.7	24.8	40.8
Total Dissolved Solids	mg/L	259	188	232	NA	341	335	201	330	266	246	200	237
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	0.0012
Barium, Total	mg/L	NA	NA	NA	0.088	0.082	0.096	0.085	0.07	0.076	0.06	0.076	0.055
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.092	0.074	0.094	0.068	0.079	0.067	0.08	0.068	0.11
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	0.00034	0.00029	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.011	0.014	0.018	0.019	<0.0010	<0.0010	0.0012	0.0031	<0.0010
Fluoride	mg/L	NA	NA	NA	0.31	0.27	0.5	0.36	0.37	0.3	0.46	0.32	0.44
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.006	0.007	0.029	0.0084	0.008	0.0046	0.015	0.0049	0.017
Selenium, Total	mg/L	NA	NA	NA	0.0013	<0.0010	0.0014	0.0019	<0.0010	<0.0010	0.001	<0.0010	0.0012
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	2.06 ± 1.38 (2.31)	0.900 ± 0.999 (1.76)	1.43 ± 1.06 (1.78)	1.45 ± 0.894 (1.02)	1.01 ± 0.866 (1.46)	0.405 ± 1.19 (2.40)	1.22	1.18	1.16

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-12D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.25	7.25	7.73	NA	6.69	7.02	7.22	7.04	8.16	6.68	7.55	6.24
Field Specific Conductance	µS/cm	24200	27839	25200	NA	2890	1310	2890	2440	27600	1510	3200	2780
Boron, Total	mg/L	5.1	8.7	7.9	NA	7.5	6.6	8.6	8.4	10.9	0.36	5.3	0.96
Calcium, Total	mg/L	514	435	453	NA	452	318	454	429	440	107	433	135
Chloride	mg/L	801	877	948	NA	937	878	912	667	875	40.1	471	110
Fluoride	mg/L	<0.10	<0.10	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	0.17	<0.10	0.2
Sulfate	mg/L	14000	<0.25	16000	NA	16100	15700	15800	12700	15500	515	8950	1470
Total Dissolved Solids	mg/L	24900	28600	24800	NA	23900	22100	21900	22800	24100	952	11800	2480
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0020	<0.0020	<0.0020	<0.0050	<0.0010	<0.0020	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	0.002	0.0022	0.003	0.0032	0.0022	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.055	0.022	0.042	0.039	0.041	0.021	0.026	0.056	0.028
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.0020	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.00040	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.3	7.5	6.6	8.6	8.4	10.9	0.36	5.3	0.96
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.0010	<0.00040	<0.00040	<0.00040	<0.0010	<0.00020	<0.00040	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.020	0.0028	<0.0040	<0.0040	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	0.0013	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.12	<1.0	<1.0	<1.0	<1.0	<1.0	0.17	<0.10	0.2
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.010	<0.0050	0.0026	<0.0050	<0.010	<0.0010	<0.0020	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	0.064	0.042	0.085	0.0388	0.0673	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.027	0.14	0.12	0.19	0.18	0.31	0.025	0.14	0.031
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.0037	0.0024	0.0032	0.0037	0.0027	<0.0010	0.0017	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.010	<0.0050	<0.0020	<0.0050	<0.010	<0.0010	<0.0020	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.69 ± 1.25 (2.10)	2.98 ± 1.26 (1.73)	4.06 ± 1.73 (2.23)	0.954 ± 0.885 (1.64)	3.81 ± 1.34 (1.37)	3.22 ± 1.35 (1.71)	0.707	0.928	0.578

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-13S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.47	7.31	7.22	NA	7.61	7.43	7.04	7.52	7.28	6.42	7.14	6.4
Field Specific Conductance	µS/cm	455	20434	479	NA	302	518	488	540	430	415	437	549
Boron, Total	mg/L	0.051	0.042	0.047	NA	0.037	0.062	0.034	0.045	0.041	0.044	0.032	0.052
Calcium, Total	mg/L	50.4	53.6	56.3	NA	59.7	60.2	52.8	57	57.9	56.7	47.6	56.7
Chloride	mg/L	15	13.2	16.6	NA	15.8	10.2	13.5	14.6	12.7	8.5	19.6	14.5
Fluoride	mg/L	0.26	0.18	0.24	NA	0.18	0.21	0.24	0.21	0.13	0.15	0.24	0.24
Sulfate	mg/L	63.9	64.4	72.5	NA	71.4	153	54.5	82.4	73.2	85.9	61.8	75.7
Total Dissolved Solids	mg/L	247	229	231	NA	315	292	248	288	267	252	225	283
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0027	0.0024	0.004	0.002	0.0019	0.0016	0.0095	0.0014	0.0033
Barium, Total	mg/L	NA	NA	NA	0.11	0.11	0.061	0.11	0.068	0.073	0.062	0.12	0.072
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.046	0.037	0.062	0.034	0.045	0.041	0.044	0.032	0.052
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.0099	0.021	0.021	0.02	0.0039	0.0086	0.072	0.021	0.0088
Fluoride	mg/L	NA	NA	NA	0.2	0.18	0.21	0.24	0.21	0.13	0.15	0.24	0.24
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0048	0.0035	0.0094	0.0033	0.0071	0.0076	0.0079	0.0019	0.0082
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.804 ± 1.41 (2.80)	0.561 ± 0.991 (2.23)	0.950 ± 1.06 (1.97)	0.655 ± 0.826 (1.58)	1.32 ± 0.947 (1.57)	0.602 ± 1.48 (2.93)	0.899	1.46	0.799

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-13D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.73	7.00	7.60	NA	6.93	7.09	7.08	8.25	7.25	6.95	7.53	5.72
Field Specific Conductance	µS/cm	912	403	1040	NA	254	1030	984	5440	5560	20900	629	1160
Boron, Total	mg/L	2.7	10.6	3.8	NA	1.1	0.99	0.3	1.8	1.9	11.7	0.34	1.1
Calcium, Total	mg/L	192	480	399	NA	130	160	82.3	115	436	487	69.5	52.4
Chloride	mg/L	211	795	325	NA	79.4	120	35.5	169	214	876	24.1	80.4
Fluoride	mg/L	<0.10	<0.10	<1.0	NA	0.13	0.14	0.17	0.31	<0.10	<1.0	<0.10	0.29
Sulfate	mg/L	3130	12100	5620	NA	926	873	287	2230	3460	13900	178	868
Total Dissolved Solids	mg/L	5400	21000	8940	NA	1760	2320	628	3670	5420	21300	463	1600
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	0.0045
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.03	0.026	0.052	0.037	0.041	0.043	0.022	0.053	0.045
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.2	1.1	0.99	0.3	1.8	1.9	11.7	0.34	1.1
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<0.1	0.13	0.14	0.17	0.31	<0.10	<1.0	<0.10	0.29
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0050	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	0.0553	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.22	0.19	0.24	0.055	0.43	0.49	2.1	0.038	0.16
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0033	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0050	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.308 ± 1.05 (2.22)	0.754 ± 0.811 (1.45)	0.940 ± 0.953 (1.72)	0.738 ± 0.950 (1.77)	2.34 ± 1.25 (1.88)	1.24 ± 1.16 (1.97)	4.3	1.52	0.758

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-14S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	6.5	6.38	6.2	NA	6.14	7.12	7.83	6.7	6.98	6.8	6.57	5.46
Field Specific Conductance	µS/cm	261	318	378	NA	334	399	365	440	360	482	480	477
Boron, Total	mg/L	0.031	0.022	0.03	NA	0.024	0.03	0.024	0.028	0.023	0.028	0.021	0.032
Calcium, Total	mg/L	29.3	39	39.1	NA	33.2	44.9	39.5	45.1	48	45.3	45.2	40.7
Chloride	mg/L	7.4	9.6	7.7	NA	6.3	8.8	4.5	4.3	7.3	13.8	18.1	14.5
Fluoride	mg/L	0.13	0.13	0.15	NA	0.11	0.16	0.15	0.16	0.13	0.26	0.12	0.19
Sulfate	mg/L	47.3	72.7	59.7	NA	38.4	89.7	50.1	55.9	56.4	111	91.4	75.5
Total Dissolved Solids	mg/L	170	212	207	NA	196	254	195	241	233	225	221	245
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011
Barium, Total	mg/L	NA	NA	NA	0.13	0.11	0.13	0.079	0.14	0.093	0.08	0.11	0.1
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.03	0.024	0.03	0.024	0.028	0.023	0.028	0.021	0.032
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	0.00022	<0.00020	<0.00020	<0.00020	0.0003	0.00021	0.00021
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.016	0.029	0.029	0.019	0.023	0.016	0.038	0.028	0.036
Fluoride	mg/L	NA	NA	NA	0.1	0.11	0.16	0.15	0.16	0.13	0.26	0.12	0.19
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	<0.001	<0.0010	0.002	<0.0010	0.0016	0.0011	0.0017	0.0012	0.0016
Selenium, Total	mg/L	NA	NA	NA	0.001	<0.0010	0.0011	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.224 ± 1.25 (2.81)	0.000 ± 1.13 (2.45)	0.850 ± 0.978 (1.85)	0.171 ± 0.773 (1.61)	1.30 ± 1.02 (1.83)	0.592 ± 1.08 (2.14)	0.729	1.34	1.54

Notes:
mg/L: Milligram per liter.
pCi/L: Picouries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	MW-14D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.24	7.16	6.94	NA	8.58	7.22	7.92	7.43	7.41	6.68	6.97	5.56
Field Specific Conductance	µS/cm	515	502	594	NA	635	577	616	614	493	553	674	550
Boron, Total	mg/L	0.038	0.051	0.046	NA	0.044	0.046	0.055	0.054	0.064	0.058	0.05	0.037
Calcium, Total	mg/L	82.1	86	82.4	NA	81.1	83.6	81.3	84	82.8	84	82.4	86.8
Chloride	mg/L	12.4	11.8	12.5	NA	13	14.2	14.6	14.9	16	17.1	16.9	15.6
Fluoride	mg/L	0.16	0.15	0.17	NA	0.14	0.18	0.19	0.17	0.18	0.17	0.17	0.17
Sulfate	mg/L	68.6	67.2	61.6	NA	65.3	66.8	67.5	62.1	59.3	66.3	66.3	81.9
Total Dissolved Solids	mg/L	331	333	335	NA	307	328	300	336	305	319	315	364
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Barium, Total	mg/L	NA	NA	NA	0.025	0.02	0.03	0.026	0.028	0.025	0.029	0.022	0.028
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.041	0.044	0.046	0.055	0.054	0.064	0.058	0.05	0.037
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.16	0.14	0.18	0.19	0.17	0.18	0.17	0.17	0.17
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0078	0.0072	0.0087	0.0077	0.0081	0.0079	0.0081	0.0088	0.0091
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.09 ± 1.30 (2.64)	0.0487 ± 1.06 (2.42)	0.273 ± 1.11 (2.30)	0.693 ± 0.781 (1.31)	0.233 ± 1.06 (2.19)	0.912 ± 1.02 (1.73)	0.855	1.46	0.496

Notes:
 mg/L: Milligram per liter.
 pCi/L: Picouries per liter.
 s.u.: Standard units.
 µS/cm: Microsiemen per centimeter.
 NA: Not applicable for sampling event.

SUMMARY OF DOWNGRAIDENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Units	SW-4											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.28	7.79	7.54	NA	8.26	7.38	8.13	7.31	8.21	7.45	7.87	6.71
Field Specific Conductance	µS/cm	914	1768	569	NA	627	548	802	585	1050	559	812	887
Boron, Total	mg/L	0.51	1.3	0.48	NA	0.29	0.25	0.42	0.34	0.65	0.77	1.1	3.3
Calcium, Total	mg/L	101	107	74.8	NA	91.1	70.4	86.8	78.3	94.4	100	58.7	72.5
Chloride	mg/L	43.5	42.8	15.6	NA	16.2	14.6	19.2	17.9	17.2	36.1	23.6	26.8
Fluoride	mg/L	0.18	0.24	0.19	NA	0.11	0.16	0.14	0.18	0.13	0.22	0.19	0.52
Sulfate	mg/L	240	584	102	NA	180	87.9	222	103	167	339	404	480
Total Dissolved Solids	mg/L	573	1200	306	NA	457	295	520	351	506	707	647	890
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0016	<0.0010	0.0015	<0.0010	0.0021	0.0013	0.0027	0.0012	0.0016
Barium, Total	mg/L	NA	NA	NA	0.058	0.039	0.05	0.042	0.13	0.052	0.12	0.04	0.038
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.3	0.29	0.25	0.42	0.34	0.65	0.77	1.1	3.3
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.19	0.11	0.16	0.14	0.18	0.13	0.22	0.19	0.52
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.099	0.031	0.063	0.044	0.098	0.054	0.088	0.074	0.31
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.325 ± 1.37 (2.86)	3.34 ± 4.08 (5.42)	1.05 ± 1.12 (2.14)	0.369 ± 0.741 (1.54)	1.45 ± 1.04 (1.79)	1.01 ± 1.08 (1.92)	0.92	0.817	1.63

Notes:

mg/L: Milligram per liter.

pCi/L: Picouries per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

NA: Not applicable for sampling event.

APPENDIX D

STATISTICAL EVALUATION REPORT – SEPTEMBER 2025

**STATISTICAL EVALUATION REPORT
SEPTEMBER 2025 SAMPLING
RESTRICTED WASTE LANDFILL (RWS I)
RM SCHAHFER GENERATING STATION
JASPER COUNTY, INDIANA**

1.0 INTRODUCTION

In January 1984, the Northern Indiana Public Service Company, LLC (NIPSCO) received an operating permit from the Indiana Department of Environmental Management (IDEM) to operate a Restricted Waste Site Type I (RWS I) Landfill at the RM Schahfer Generating Station, located at 2723 E 1500 N Road in Wheatfield, Jasper County, approximately 16 miles south of Valparaiso, Indiana. Under this permit, NIPSCO has implemented a routine Phase I Groundwater Monitoring Program at the site, in accordance with a Sampling and Analysis Plan (SAP) that was prepared by NIPSCO and approved by IDEM in August 1999. The results of the monitoring program were provided to IDEM in semi-annual monitoring reports.

In May 2020, the renewal of the landfill operating permit for the site was approved by IDEM, with an expiration of April 2025. To comply with *Requirement 14* of the 2020 permit renewal, a Statistical Evaluation Plan (StEP) was prepared within 60 days after background groundwater quality was established at the site and submitted to IDEM in August 2021. The StEP was prepared in accordance with 329 IAC 10-29-5 and presents data distribution assumptions, an approach for verification resampling, and proposes a method of statistical evaluation for the monitoring program. The StEP was approved by IDEM in October 2021.

In accordance with *Requirement E18*, the StEP must be applied to determine whether there is a statistically significant increase (SSI), or decrease for pH, over background for each Phase I or II constituent. The outcome of this evaluation is included in this Statistical Evaluation Report for the September 2025 Sampling, which is included as an appendix to the Phase I and II Groundwater Monitoring Report for the Semi-Annual Monitoring Event per *Requirement E22*.

This Statistical Evaluation Report includes the results of database screening and a comparison of the groundwater quality at each monitoring well and surface water location.

As detailed in Section 1.2 of the Phase I and II Groundwater Monitoring Report for the September 2025 monitoring event, both the Phase I and Phase II Monitoring Programs are currently being conducted at the site. Details of both monitoring programs are provided in the following sections.

2.0 STATISTICAL DATASET INFORMATION

A statistical evaluation of the compliance well water quality data was conducted to determine if any SSIs in constituent concentrations, as compared to background (Phase I monitoring), or if any statistically significant levels (SSLs), as compared to the established Groundwater Protection Standard (GWPS) (Phase II monitoring), had occurred during the September 2025 sampling event. To perform the analyses, groundwater monitoring data were evaluated in accordance with the IDEM-approved StEP.

The background dataset for the shallow wells (S series) included wells MW-1S and MW-10S; the background dataset for the deep wells (D series) included MW-1D and MW-10D. The compliance dataset for the shallow wells included downgradient wells MW-2S through MW-9S and MW-11S through MW-14S. The compliance well dataset for the deep wells included downgradient wells MW-2D through MW-9D and MW-11D through MW-14D. Surface water quality data from sampling point SW-4 (downstream) were compared to data from sampling point SW-10 (upstream).

Per *Requirement E14*, the following constituents were evaluated as part of the Phase I and II Groundwater Monitoring Programs:

Phase I Monitoring Constituents

- Field pH;
- Field Specific Conductance;
- Total Boron;
- Total Calcium;
- Chloride;
- Fluoride;
- Sulfate; and
- Total Dissolved Solids (TDS).

Phase II Monitoring Constituents

- Total Antimony;
- Total Arsenic;
- Total Barium;
- Total Beryllium;
- Total Boron;
- Total Cadmium;
- Total Chromium;
- Total Cobalt;
- Fluoride;
- Total Lead;

- Total Lithium;
- Total Mercury;
- Total Molybdenum;
- Total Selenium;
- Total Thallium; and
- Radium 226 and 228 Combined.

Statistical analyses were conducted for all parameters using Sanitas™ Statistical Software version 10. Presented below are the results of the statistical evaluations.

3.0 DATABASE SCREENING

The background dataset was screened in accordance with the StEP and the results are summarized on Tables D-1 (Phase I monitoring) and D-3 (Phase II monitoring) of this appendix. Data was screened for usability, summary statistics were generated, and the following aspects of the data were evaluated: size of dataset, non-detects, outliers, trends/seasonality and normality.

4.0 PHASE I AND II MONITORING PROGRAMS

As stated in the StEP, the Unified Guidance recommends the use of Upper Tolerance Limits (UTLs) for an Assessment Monitoring Program. Tolerance limits consist of two values expected to contain a pre-specified proportion of the underlying data population with a specified level of confidence. For example, a 95% tolerance interval with a 95% confidence level, there is 95% confidence that, on average, 95% of the data population is contained within the interval. The upper one-sided UTL is commonly used in environmental monitoring and is constructed using background data. During an Assessment Monitoring Program, a UTL for each Phase I and II constituent will be calculated using pooled background data for each specific unit.

As presented in Section 5.2 of the StEP, parametric UTLs assume that background data is normally distributed or can be normalized via transformation. When the data is not normal or cannot be normalized, or if greater than 50% of the data set are non-detect, non-parametric UTLs may be used. The non-parametric UTLs is an order statistic and the confidence level for non-parametric limits is not adjustable.

For Phase I constituents, the calculated UTL will be set as the established background value. For Phase II constituents, the UTL may be used to represent the GWPS if the background UTL exceeds the established MCL or the U.S. EPA alternative standards (as defined in the StEP). UTLs were calculated for each constituent and are presented in Table D-1 (Phase I monitoring) and Table D-3 (Phase II monitoring) of this appendix.

5.0 RESULTS OF STATISTICAL EVALUATION – SEPTEMBER 2025

To determine if any SSIs or SSLs occurred at compliance wells, the most recent sampling results (collected in September 2025) were compared to the calculated UTL value (Phase I monitoring) and the established GWPS (Phase II monitoring), respectively. Datasets for the shallow (S) and deep (D) compliance wells and surface water sample point were compared to background datasets for shallow (S) and deep (D) wells and surface water sample point, respectively. The results of these analyses were used to determine the results of the Phase I and II Groundwater Monitoring Programs as detailed below.

5.1 Phase I Groundwater Monitoring Program

The Phase I constituent results of the statistical evaluation of the September 2025 monitoring event for groundwater and surface water are provided in Table D-2 of this appendix and are summarized below.

Groundwater

In the shallow wells, SSIs were identified for all constituents except for Chloride; the number of SSIs by constituent ranged from two (2) for Field pH to 10 for Fluoride. In the deep wells, SSIs were identified for all constituents; the number of SSIs by parameter ranged from one (1) for Total Boron to 10 for Chloride and Sulfate. The following wells had two (2) or more SSIs noted:

- MW-2S, MW-3Sa, MW-4S, MW-5S, and MW-5D (6 SSIs);
- MW-2D, MW-3D, MW-4D, MW-11D, MW-12D, and MW-13D (5 SSIs);
- MW-7S, MW-7D, and MW-14D (3 SSIs); and
- MW-6S, MW-6D, MW-9D, and MW-14S (2 SSIs).

Surface Water

In surface water location SW-4 (downstream sampling point), SSIs were identified for six (6) Phase I constituents (Specific Conductance, Total Boron, Chloride, Fluoride, Sulfate, and TDS).

5.2 Phase II Groundwater Monitoring Program

The Phase II constituent results of the statistical evaluation of the September 2025 monitoring event for groundwater and surface water are provided in Table D-4 of this appendix and are summarized below.

Groundwater

In the shallow wells, SSLs were identified in the following wells:

- MW-4S (Total Molybdenum);
- MW-6S (Total Cobalt);

- MW-13S (Total Cobalt); and
- MW-14S (Total Cobalt).

In the deep wells, SSLs were identified in the following wells:

- MW-2D (Total Molybdenum);
- MW-3D (Total Lithium, Total Molybdenum, and Combined Radium 226 and 228);
- MW-4D (Total Molybdenum);
- MW-5D (Total Boron, Total Lithium, and Total Molybdenum);
- MW-7D (Total Arsenic);
- MW-9D (Total Lithium); and
- MW-13D (Total Molybdenum).

Surface Water

In surface water location SW-4 (downstream sampling point), Total Molybdenum identified as a SSL at sampling point SW-4 (downstream):

APPENDIX D TABLES

TABLE D-1
SUMMARY OF PHASE I CONSTITUENTS BACKGROUND SCREENING AND BACKGROUND QUALITY LEVELS - SEPTEMBER 2025

RM Schahfer Generating Station RWS 1
Jasper County, Indiana

Parameter	Unit	Well ID	Data Verification Result	Number of Observations	Percent ND	Unit	Minimum	Maximum	Mean	Median	Standard Deviation	Skewness	Outliers	Trend/Seasonality	Normality	UTL
pH (Field)	Shallow	MW-1S	Usable	14	0%	S.U.	5.98	7.75	6.904	7.01	0.528	-0.4531	None	NA	Normal	5.67/8.69
		MW-10S	Usable	14	0%		6.27	8.27	7.344	7.385	0.5901	-0.2922			Normal	
	Deep	MW-1D	Usable	14	0%		6.47	7.92	7.188	7.24	0.4624	-0.2541	None		Normal	6.09/8.68
		MW-10D	Usable	14	0%		6.81	8.35	7.554	7.61	0.4421	-0.1772			Normal	
	Surface Water	SW-10	Usable	14	0%		6.53	8.55	7.405	7.455	0.6481	0.4386	None		Normal	5.56/9.39
Specific Conductance (Field)	Shallow	MW-1S	Usable	14	0%	µS/cm	220	689	405.8	372	155.2	0.8077	None	NA	Normal	908
		MW-10S	Usable	14	0%		325	1110	555.1	544.5	180	2.096			Cube Root	
	Deep	MW-1D	Usable	14	0%		414	1010	603.1	619	142.1	1.543	None		Normal	892
		MW-10D	Usable	14	0%		325	650	399.1	387.5	79.49	2.354			No	
	Surface Water	SW-10	Usable	14	0%		337	823	489.8	490.5	111.2	1.851	Yes		Square Root	632
Total Boron	Shallow	MW-1S	Usable	14	0%	mg/L	0.13	0.27	0.185	0.185	0.03459	0.602	None	NA	Normal	0.27
		MW-10S	Usable	14	0%		0.044	0.078	0.055	0.052	0.009853	1.009			Normal	
	Deep	MW-1D	Usable	14	0%		0.15	13.6	3.481	1.29	4.245	1.15	None		Square Root	13.6
		MW-10D	Usable	14	0%		0.055	0.068	0.06114	0.0605	0.00382	0.1957			Normal	
	Surface Water	SW-10	Usable	14	0%		0.015	0.075	0.03079	0.0265	0.01474	2.123	Yes		Natural Log	0.04
Calcium, Total	Shallow	MW-1S	Usable	14	0%	mg/L	35.8	77.7	50.02	47.3	12.68	1.26	None	NA	Normal	92.1
		MW-10S	Usable	14	0%		55	80.7	69.61	70.15	7.207	-0.4175			Normal	
	Deep	MW-1D	Usable	14	0%		70.5	96.6	82.8	83.7	7.806	-0.05848	None		Normal	96.6
		MW-10D	Usable	14	0%		46.5	60.8	52.42	51.05	4.326	0.9643			Normal	
	Surface Water	SW-10	Usable	14	0%		51.4	73.6	62.09	61.65	6.013	0.2687	None		Normal	78.8
Chloride	Shallow	MW-1S	Usable	14	0%	mg/L	1.9	85	12.47	5.55	21.66	2.958	Yes	NA	Natural Log	36.1
		MW-10S	Usable	14	0%		5	34.5	17.06	14.2	9.494	0.3404			Normal	
	Deep	MW-1D	Usable	14	0%		3.1	27.1	8.507	4.85	7.591	1.611	Yes		Natural Log	11.2
		MW-10D	Usable	14	0%		2.6	18.8	6.307	4.8	4.558	1.919			Cube Root	
	Surface Water	SW-10	Usable	14	0%		6.5	13.3	11.23	12.1	2.131	-1.026	None		Normal	16.7
Fluoride	Shallow	MW-1S	Usable	14	100%	mg/L	0.1	0.1	0.1	0.1	0	NA	None	NA	No	0.10
		MW-10S	Usable	14	100%		0.1	0.1	0.1	0.1	0	NA			No	
	Deep	MW-1D	Usable	14	0%		0.2	0.38	0.2764	0.265	0.0593	0.4269	None		Normal	0.40
		MW-10D	Usable	14	7%		0.05	0.15	0.1336	0.145	0.02735	-2.216			No	
	Surface Water	SW-10	Usable	14	14%		0.05	0.17	0.1236	0.13	0.03478	-1.234	None		Square	0.16
Sulfate	Shallow	MW-1S	Usable	14	0%	mg/L	28.2	150	50.84	43.5	30.24	2.722	Yes	NA	Natural Log	86.5
		MW-10S	Usable	14	0%		49.5	83.4	63.29	62.3	9.706	0.4308			Normal	
	Deep	MW-1D	Usable	14	0%		40.3	77.6	53.17	51.6	9.921	1.264	None		Normal	77.7
		MW-10D	Usable	14	0%		11.4	44.6	26.05	27	8.206	0.2439			Normal	
	Surface Water	SW-10	Usable	14	0%		44.3	77.8	61.2	61.45	7.436	-0.04456	None		Normal	82.0
Total Dissolved Solids	Shallow	MW-1S	Usable	14	0%	mg/L	130	424	208.6	189	78.95	1.724	None	NA	Square Root	427
		MW-10S	Usable	14	0%		236	351	298.8	314.5	37.76	-0.2207			Normal	
	Deep	MW-1D	Usable	14	0%		269	368	326	340	34.92	-0.5733	None		Normal	446
		MW-10D	Usable	14	0%		166	253	202.6	200.5	22.63	0.5356			Normal	
	Surface Water	SW-10	Usable	14	0%		221	312	261	258	25.89	0.4184	None		Normal	333

Notes:

UTL: Upper Tolerance Limit; lower and upper limits are provided for pH. UTL values 100 and above are presented as whole numbers, values equal to or greater than one (1) and below 100 are presented to the tenth decimal place and values less than one (1) are presented to the hundredth decimal place.

NA: Not applicable.

mg/L: Milligram per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

**TABLE D-2
PHASE I CONSTITUENTS STATISTICAL EVALUATION RESULTS - SEPTEMBER 2025**

**RM Schahfer Generating Station RWS I
Jasper County, Indiana**

Shallow Well Locations													
Constituent (Unit)	Background Quality Level	MW-2S	MW-3Sa	MW-4S	MW-5S	MW-6S	MW-7S	MW-8S	MW-9S	MW-11S	MW-12S	MW-13S	MW-14S
Field pH (s.u.)	5.67/8.70	7.18	7.36	6.98	6.65	5.20	5.78	7.35	6.90	6.87	6.91	6.40	5.46
Field Specific Conductance (uS/cm)	908	963	1420	1130	1130	426	684	220	417	863	520	349	477
Total Boron (mg/L)	0.27	3.3	1.6	2.0	2.5	0.045	0.034	0.029	0.025	0.067	0.110	0.052	0.032
Total Calcium (mg/L)	92.1	137	134	108	197	39.3	88.4	28.5	54.6	69.9	50.6	56.7	40.7
Chloride (mg/L)	36.1	3.4	2.0	11.1	7.2	13.6	4.9	5.3	16.3	9.7	11.9	14.5	14.5
Fluoride (mg/L)	0.10	0.43	0.26	0.27	0.3	<0.1	0.24	<0.1	0.41	0.27	0.44	0.24	0.19
Sulfate (mg/L)	86.5	332	233	363	461	111	221	28.5	45.4	46.8	40.8	75.7	75.5
Total Dissolved Solids (mg/L)	427	627	572	747	908	221	466	130	279	339	237	283	245

Deep Well Locations													
Constituent (Unit)	Background Quality Level	MW-2D	MW-3D	MW-4D	MW-5D	MW-6D	MW-7D	MW-8D	MW-9D	MW-11D	MW-12D	MW-13D	MW-14D
Field pH (s.u.)	6.09/8.69	6.65	6.86	6.96	6.09	5.02	6.05	7.14	6.50	6.31	6.24	5.72	5.56
Field Specific Conductance (uS/cm)	892	1480	17700	2180	3130	392	601	357	500	2210	2780	1160	550
Total Boron (mg/L)	13.6	10.5	12.0	5.2	13.9	0.022	0.036	0.37	1.60	0.7	0.96	1.1	0.037
Total Calcium (mg/L)	96.6	68.6	284	235	457	64.5	84.3	49.8	44	111	135	52.4	86.8
Chloride (mg/L)	11.2	30	729	110	683	11.1	19.0	7.7	17.8	74	110	80.4	15.6
Fluoride (mg/L)	0.40	1.1	<0.1	0.26	<0.1	0.26	0.16	0.17	0.41	0.13	0.2	0.29	0.17
Sulfate (mg/L)	77.7	780	12500	1780	4850	78.5	95.7	26.5	1.8	1060	1470	868	81.9
Total Dissolved Solids (mg/L)	446	1500	20100	2970	8100	275	378	229	318	1870	2480	1600	364

Surface Water Location		
Constituent (Unit)	Background Quality Level	SW-4
Field pH (s.u.)	5.56/9.39	6.71
Field Specific Conductance (uS/cm)	632	887
Total Boron (mg/L)	0.04	3.3
Total Calcium (mg/L)	78.8	72.5
Chloride (mg/L)	16.7	26.8
Fluoride (mg/L)	0.16	0.52
Sulfate (mg/L)	82.0	480
Total Dissolved Solids (mg/L)	333	890

Notes:

Background Quality Level established using Upper Tolerance Limits (UTLs). Lower and upper limits are provided for pH.

DQ: Double quantification rule – UTL set to highest reporting limit.

mg/L: Milligram per liter.

s.u.: Standard units.

µS/cm: Microsiemen per centimeter.

Orange Highlighted: value exceeds its Background Quality Level

TABLE D-3
SUMMARY OF PHASE II CONSTITUENTS BACKGROUND SCREENING AND BACKGROUND QUALITY LEVELS - SEPTEMBER 2025

RM Schaffer Generating Station RWS I
Jasper County, Indiana

Parameter	Unit	Well ID	Data Verification Result	Number of Observations	Percent ND	Unit	Minimum	Maximum	Mean	Median	Standard Deviation	Skewness	Outliers	Trend/Seasonality	Normality	UTL	MCLs and U.S. EPA Alternative Standard
Total Antimony	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	None	NA	No	0.001	0.006
		MW-10S	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No		
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	NA		No		
Total Arsenic	Shallow	MW-1S	Usable	14	92%	mg/L	0.001	0.001	0.001	0.001	1.30E-11	-3.328	None	NA	No	0.004	0.01
		MW-10S	Usable	14	85%		0.001	0.0043	0.001264	0.001	0.0008802	3.249			No		
	Deep	MW-1D	Usable	14	64%		0.001	0.0013	0.00105	0.001	0.00008549	1.917	None		No		
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	50%		0.001	0.0022	0.00125	0.0011	0.0003414	1.577	NA		No		
Total Barium	Shallow	MW-1S	Usable	14	0%	mg/L	0.0055	0.018	0.009821	0.0089	0.003326	0.8836	None	NA	Normal	0.03	2.0
		MW-10S	Usable	14	0%		0.013	0.032	0.0175	0.017	0.004768	2.086			Natural Log		
	Deep	MW-1D	Usable	14	0%		0.021	0.036	0.02971	0.03	0.005045	-0.2027	None		Normal		
		MW-10D	Usable	14	0%		0.017	0.026	0.02029	0.02	0.0024	0.9331			Normal		
	Surface Water	SW-10	Usable	14	0%		0.0024	0.1	0.0581	0.0555	0.02157	-0.6475	None		Normal		
Total Beryllium	Shallow	MW-1S	Usable	14	100%	mg/L	0.0002	0.0002	0.0002	0.0002	0	NA	None	NA	No	0.0002	0.004
		MW-10S	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.0002	0.0004	0.0002143	0.0002	0.00005345	3.328	None		No		
		MW-10D	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA	NA		No		
Total Boron	Shallow	MW-1S	Usable	14	0%	mg/L	0.13	0.27	0.185	0.185	0.03459	0.602	None	NA	Normal	0.27	4.0
		MW-10S	Usable	14	0%		0.044	0.078	0.055	0.052	0.009853	1.009			Normal		
	Deep	MW-1D	Usable	14	0%		0.15	13.6	3.481	1.29	4.245	1.15	None		Square Root		
		MW-10D	Usable	14	0%		0.055	0.068	0.06114	0.0605	0.00382	0.1957			Normal		
	Surface Water	SW-10	Usable	14	0%		0.015	0.075	0.03079	0.0265	0.01474	2.123	Yes		Natural Log		
Total Cadmium	Shallow	MW-1S	Usable	14	100%	mg/L	0.0002	0.0002	0.0002	0.0002	0	NA	None	NA	No	0.0002	0.005
		MW-10S	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA	None		No		
		MW-10D	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA	NA		No		
Total Chromium	Shallow	MW-1S	Usable	14	100%	mg/L	0.002	0.002	0.002	0.002	0	NA	None	NA	No	0.002	0.1
		MW-10S	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA	None		No		
		MW-10D	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA	NA		No		
Total Cobalt	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	Yes	NA	No	0.002	0.006
		MW-10S	Usable	14	14%		0.0005	0.0082	0.001857	0.0013	0.001921	2.799			Natural Log		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No		
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	92%		0.001	0.0011	0.001007	0.001	0.00002673	3.328	NA		No		
Fluoride	Shallow	MW-1S	Usable	14	100%	mg/L	0.1	0.1	0.1	0.1	0	NA	None	NA	No	0.01	4.0
		MW-10S	Usable	14	100%		0.1	0.1	0.1	0.1	0	NA			No		
	Deep	MW-1D	Usable	14	0%		0.2	0.38	0.2764	0.265	0.0593	0.4269	None		Normal		
		MW-10D	Usable	14	7%		0.05	0.15	0.1336	0.145	0.02735	-2.216			No		
	Surface Water	SW-10	Usable	14	14%		0.05	0.17	0.1236	0.13	0.03478	-1.234	None		Square		
Total Lead	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	None	NA	No	0.001	0.015
		MW-10S	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No		
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	NA		No		
Total Lithium	Shallow	MW-1S	Usable	14	100%	mg/L	0.02	0.02	0.02	0.02	0	NA	None	NA	No	0.02	0.04
		MW-10S	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA	None		No		
		MW-10D	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA	NA		No		
Total Mercury	Shallow	MW-1S	Usable	14	100%	mg/L	0.002	2	0.1447	0.002	0.534	3.328	None	NA	No	0.002	0.002
		MW-10S	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.002	2	0.1447	0.002	0.534	3.328	None		No		
		MW-10D	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA	NA		No		
Total Molybdenum	Shallow	MW-1S	Usable	14	0%	mg/L	0.0077	0.027	0.01411	0.013	0.005486	1.033	None	NA	Normal	0.03	0.1
		MW-10S	Usable	14	21%		0.001	0.0013	0.001136	0.00115	0.0001082	0.00386			Normal		
	Deep	MW-1D	Usable	14	28%		0.001	0.0034	0.001921	0.0017	0.0008946	0.4048	None		Normal		
		MW-10D	Usable	14	28%		0.001	0.0014	0.00115	0.0011	0.0001605	0.00386			No		
	Surface Water	SW-10	Usable	14	0%		0.0023	0.0079	0.005143	0.005	0.001385	0.06467	None		Normal		
Total Selenium	Shallow	MW-1S	Usable	14	0%	mg/L	0.0031	0.0088	0.005893	0.0056	0.001721	0.2958	None	NA	Normal	0.01	0.05
		MW-10S	Usable	14	78%		0.001	0.002	0.00115	0.001	0.0003436	1.965			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No		
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	92%		0.001	0.0015	0.001036	0.001	0.0001336	3.328	NA		No		
Total Thallium	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	None	NA	No	0.001	0.002
		MW-10S	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No		
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	NA		No		
Radium 226 and 228 Combined	Shallow	MW-1S	Usable	14	7%	pCi/L	0.128	1.93	0.7454	0.5135	0.5181	0.8856	None	NA	Normal	2.0	5.0
		MW-10S	Usable	14	7%		0.175	1.3	0.7161	0.7125	0.3682	0.07258			Normal		
	Deep	MW-1D	Usable	14	7%		0.375	1.9	1.001	0.895	0.4973	0.3291	None		Normal		
		MW-10D	Usable	14	7%		0.0946	2	0.8311	0.943	0.517	0.4103			Normal		
	Surface Water	SW-10	Usable	14	7%		0.093	3.41	0.907	0.5325	0.8861	1.735	None		Square Root		

Notes:
 UTL: Upper Tolerance Limit values equal to or greater than one (1) and below 100 are presented to the tenth decimal place and values less than one (1) are presented to the hundredth decimal place.
 MCL: Maximum Contaminant Level.
 Groundwater Protection Standard (GWPS) set as the highest value between the calculated UTL (if available) and applicable MCL or U.S. EPA alternative standard; the selected GWPS is highlighted in orange.
 NA: Not applicable.
 mg/L: Milligram per liter.
 pCi/L: Pico-curies per liter.

TABLE D-4
PHASE II CONSTITUENTS STATISTICAL EVALUATION RESULTS - MARCH 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Shallow Well Locations													
Constituent (Unit)	GWPS	MW-2S	MW-3Sa	MW-4S	MW-5S	MW-6S	MW-7S	MW-8S	MW-9S	MW-11S	MW-12S	MW-13S	MW-14S
Total Antimony (mg/L)	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Arsenic (mg/L)	0.01	0.0047	0.0073	0.0054	0.004	<0.001	0.0015	<0.001	<0.001	<0.001	0.0012	0.0033	0.0011
Total Barium (mg/L)	2.0	0.098	0.078	0.036	0.22	0.033	0.092	0.0042	0.049	0.053	0.055	0.072	0.1
Total Beryllium (mg/L)	0.004	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Boron (mg/L)	4.0	3.3	1.6	2	2.5	0.045	0.034	0.029	0.025	0.067	0.11	0.052	0.032
Total Cadmium (mg/L)	0.005	<0.0002	<0.0002	<0.0002	<0.0002	0.00039	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00021
Total Chromium (mg/L)	0.1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Cobalt (mg/L)	0.006	<0.001	0.0015	<0.001	<0.001	0.0096	0.0024	<0.001	<0.001	0.0012	<0.001	0.0088	0.036
Fluoride (mg/L)	4.0	0.43	0.26	0.27	0.30	<0.1	0.24	<0.1	0.41	0.27	0.44	0.24	0.19
Total Lead (mg/L)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Lithium (mg/L)	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Total Mercury (mg/L)	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Molybdenum (mg/L)	0.1	0.026	0.026	0.13	0.037	<0.001	0.0038	<0.001	0.003	0.002	0.017	0.0082	0.0016
Total Selenium (mg/L)	0.05	<0.001	0.0018	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	0.0012	<0.001	<0.001
Total Thallium (mg/L)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 Combined (pCi/L)	5.0	1.82	1.89	1.58	2.33	1.07	0.50	1.25	0.80	1.15	1.16	0.80	1.54

Deep Well Locations													
Constituent (Unit)	GWPS	MW-2D	MW-3D	MW-4D	MW-5D	MW-6D	MW-7D	MW-8D	MW-9D	MW-11D	MW-12D	MW-13D	MW-14D
Total Antimony (mg/L)	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0045	<0.001
Total Arsenic (mg/L)	0.01	<0.001	0.0021	<0.001	<0.001	0.0018	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012
Total Barium (mg/L)	2.0	0.039	0.029	0.044	0.067	0.028	0.039	0.04	0.047	0.052	0.028	0.045	0.028
Total Beryllium (mg/L)	0.004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Boron (mg/L)	13.6	10.5	12	5.2	13.9	0.022	0.036	0.37	1.6	0.73	0.96	1.1	0.037
Total Cadmium (mg/L)	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Chromium (mg/L)	0.1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Cobalt (mg/L)	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride (mg/L)	4.0	1.1	<0.1	0.26	<0.1	0.26	0.16	0.17	0.41	0.13	0.2	0.29	0.17
Total Lead (mg/L)	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Lithium (mg/L)	0.04	0.0248	0.0659	0.0204	0.0405	<0.02	<0.02	<0.02	0.0438	<0.02	<0.02	<0.02	<0.02
Total Mercury (mg/L)	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Molybdenum (mg/L)	0.1	1.3	0.32	1.5	2.6	0.0048	0.0043	0.0024	0.0024	0.0044	0.031	0.16	0.0091
Total Selenium (mg/L)	0.05	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Thallium (mg/L)	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 Combined (pCi/L)	5.0	1.36	5.16	3.17	4.93	0.802	1.06	0.7	1.16	1.400	0.578	0.758	0.496

Surface Water Location		
Constituent (Unit)	GWPS	SW-4
Total Antimony (mg/L)	0.006	<0.001
Total Arsenic (mg/L)	0.01	0.002
Total Barium (mg/L)	2.0	0.038
Total Beryllium (mg/L)	0.004	<0.0002
Total Boron (mg/L)	4.0	3.3
Total Cadmium (mg/L)	0.005	<0.0002
Total Chromium (mg/L)	0.1	<0.002
Total Cobalt (mg/L)	0.006	<0.001
Fluoride (mg/L)	4.0	0.52
Total Lead (mg/L)	0.015	<0.001
Total Lithium (mg/L)	0.04	<0.02
Total Mercury (mg/L)	0.002	<0.002
Total Molybdenum (mg/L)	0.1	0.31
Total Selenium (mg/L)	0.05	<0.001
Total Thallium (mg/L)	0.002	<0.001
Radium 226 and 228 Combined (pCi/L)	5.0	1.63

Notes:

Groundwater Protection Standard (GWPS) set as the highest value between the calculated Upper Tolerance Limit (UTL; if available) and applicable Maximum Contaminant Level (MCL) or U.S. EPA alternative standard.

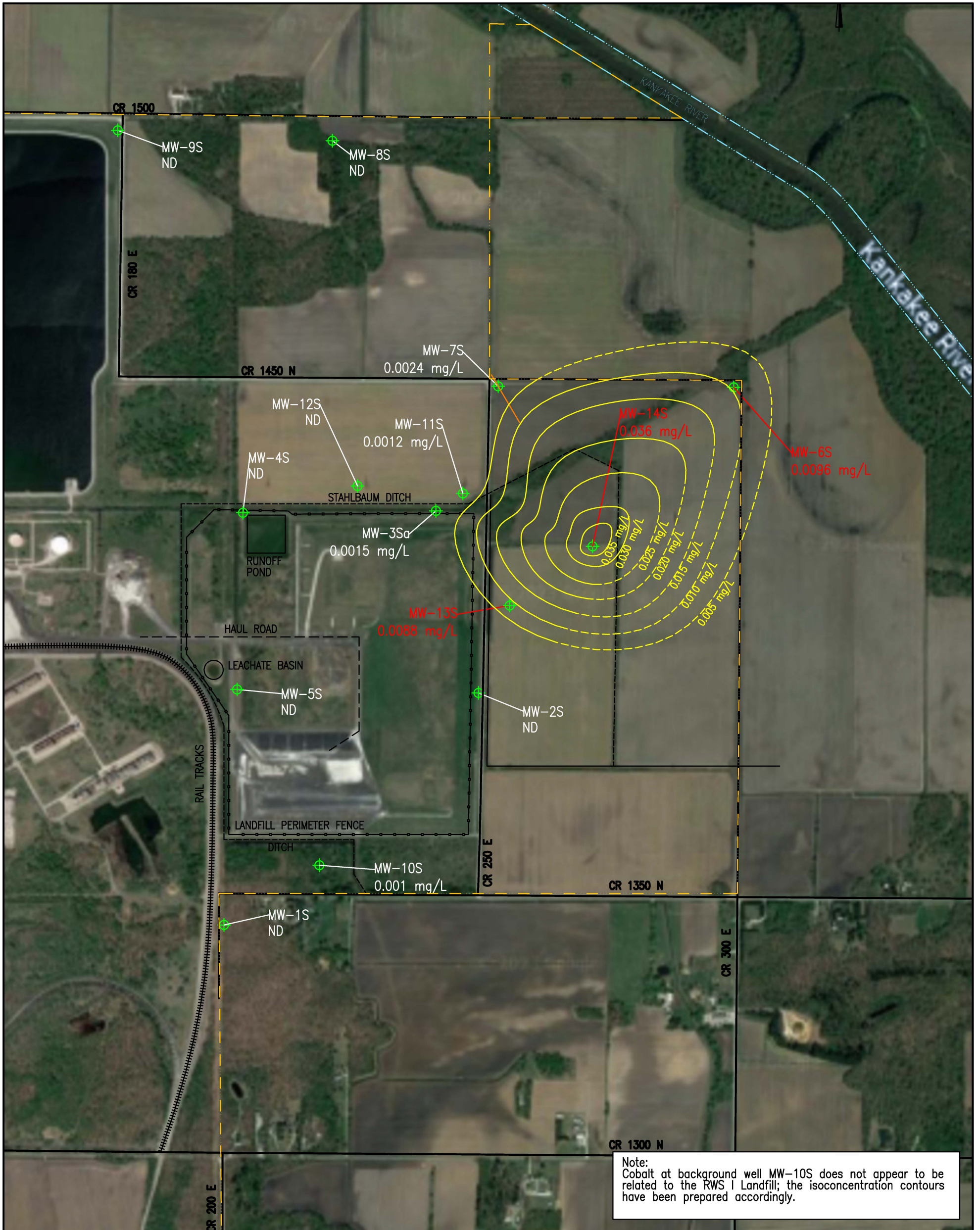
GWPS exceedances are highlighted in orange.

mg/L: Milligram per liter.

pCi/L: Picocuries per liter.

APPENDIX E

ISOCONCENTRATION MAPS BY CONSTITUENT – SEPTEMBER 2025

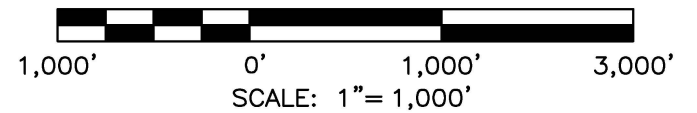


Note:
Cobalt at background well MW-10S does not appear to be related to the RWS I Landfill; the isoconcentration contours have been prepared accordingly.

LEGEND:

- ◆ AGES SHALLOW MONITORING WELL
- COBALT ISOCONCENTRATION CONTOURS
- - - ESTIMATED COBALT ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR COBALT = 0.006 mg/L



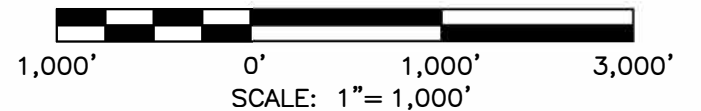
DRAWN BY		MST	NiSOURCE, INC.	
CHECKED BY			RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO.		2025010-SCH-NIPSCO	SEPTEMBER 2025 COBALT ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL SHALLOW WELLS	
DWG FILE		2025010_NIPSCO_ISO_SEPT2025 [ShallowCobalt]	DRAWING NAME	
DRAWING SCALE		AS SHOWN	FIGURE E-1	
<p>2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453</p>			REV. 0	




LEGEND:

- ◆ AGES DEEP MONITORING WELL
- ARSENIC ISOCONCENTRATION CONTOURS
- - - ESTIMATED ARSENIC ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR ARSENIC = 0.01 mg/L



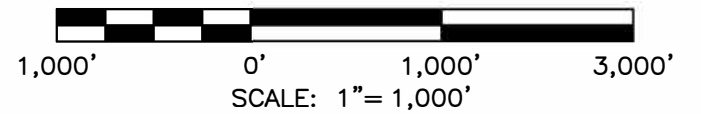
DRAWN BY MST		 <p>AGES Applied Geology And Environmental Science, Inc.</p>	NISOURCE, INC.	
CHECKED BY			RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO. 2025010-SCH-NIPSCO		SEPTEMBER 2025 ARSENIC ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL DEEP WELLS		
DWG FILE 2025010_NIPSCO_ISO_Arsenic2025 [DeepArsenic]		DRAWING NAME FIGURE E-2		
DRAWING SCALE AS SHOWN		REV. 0		




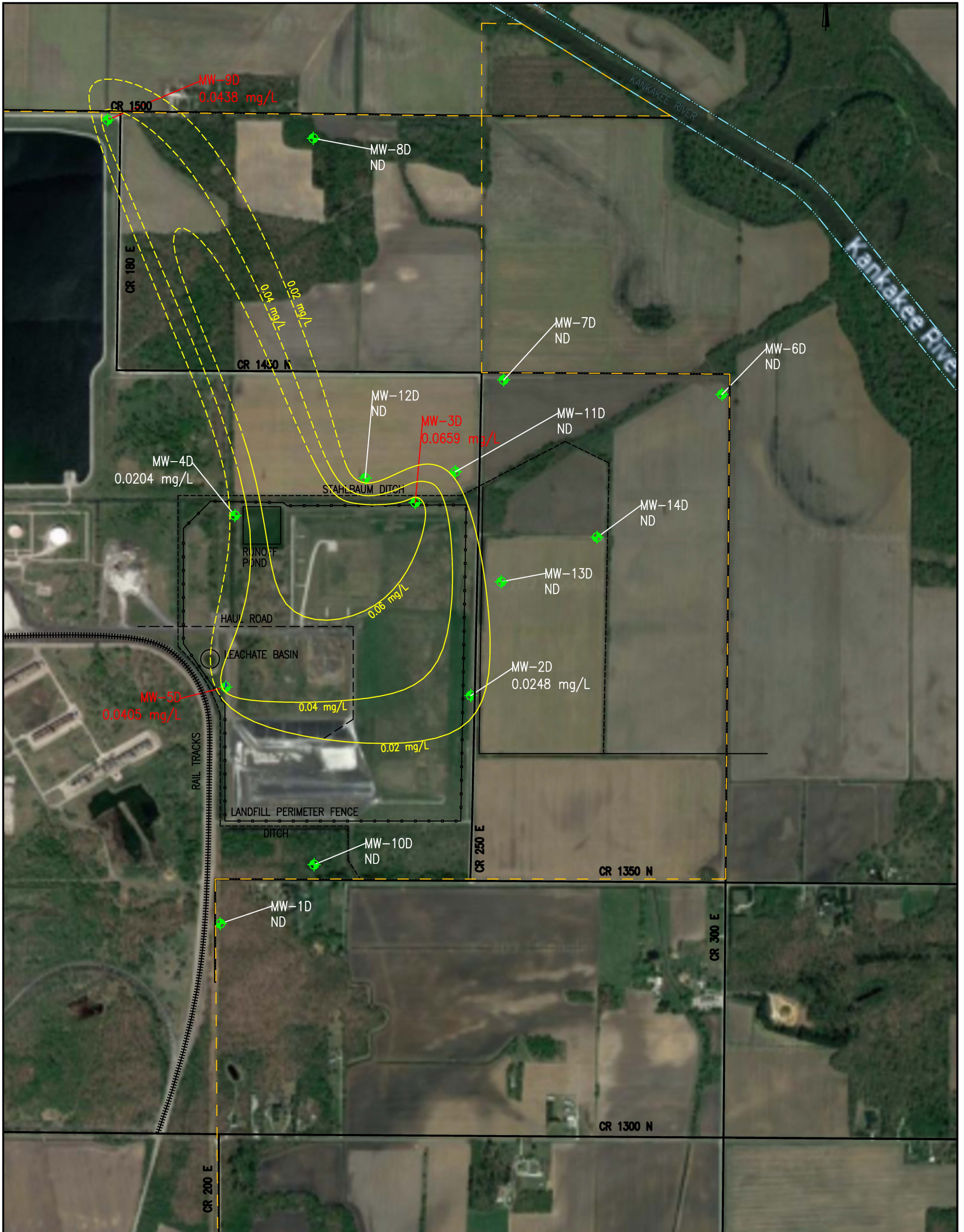
LEGEND:

- ◆ AGES DEEP MONITORING WELL
- BORON ISOCONCENTRATION CONTOURS
- - - ESTIMATED BORON ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR BORON = 13.6 mg/L



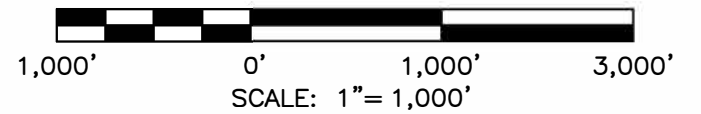
DRAWN BY MST		NISOURCE, INC.	
CHECKED BY		RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO. 2025010-SCH-NIPSCO	2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453	SEPTEMBER 2025 BORON ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL DEEP WELLS	
DWG FILE 2025010_NIPSCO_ISO_Sept2025 [DeepBoron]		DRAWING NAME FIGURE E-3	REV. 0
DRAWING SCALE AS SHOWN			



LEGEND:

- ◆ AGES DEEP MONITORING WELL
- LITHIUM ISOCONCENTRATION CONTOURS
- - - ESTIMATED LITHIUM ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR LITHIUM = 0.04 mg/L



DRAWN BY MST				NISOURCE, INC.	
CHECKED BY				RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO. 2025010-SCH-NIPSCO		2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453		SEPTEMBER 2025 LITHIUM ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL DEEP WELLS	
DWG FILE 2025010_NIPSCO_ISO_Sept2025 [DeepLithium]		DRAWING NAME FIGURE E-4		REV. 0	
DRAWING SCALE AS SHOWN					

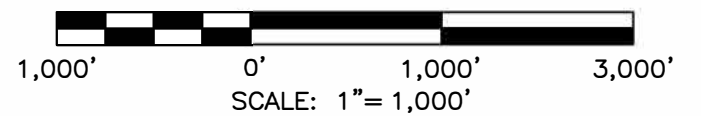


Note:
Molybdenum at background well MW-1S does not appear to be related to the RWS I Landfill; the isoconcentration contours have been prepared accordingly.

LEGEND:

- ◆ AGES SHALLOW MONITORING WELL
- MOLYBDENUM ISOCONCENTRATION CONTOURS
- - - ESTIMATED MOLYBDENUM ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR MOLYBDENUM = 0.1 mg/L



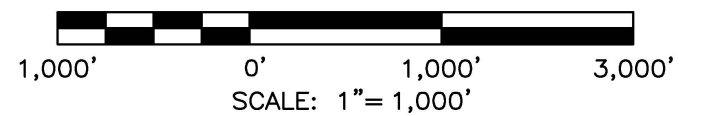
DRAWN BY		MST	NiSOURCE, INC.	
CHECKED BY			RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO.		2025010-SCH-NIPSCO	SEPTEMBER 2025 MOLYBDENUM ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL SHALLOW WELLS	
DWG FILE		2025010_NIPSCO_ISO_Sept2025 [ShallowMolybd]	DRAWING NAME	
DRAWING SCALE		AS SHOWN	FIGURE E-5	
<p>2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453</p>			REV. 0	



LEGEND:

- ◆ AGES DEEP MONITORING WELL
- MOLYBDENUM ISOCONCENTRATION CONTOURS (Contour Interval = 0.5 mg/L)
- MOLYBDENUM ISOCONCENTRATION CONTOURS (Contour Interval = 0.1 mg/L)
- - - ESTIMATED MOLYBDENUM ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR MOLYBDENUM = 0.1 mg/L



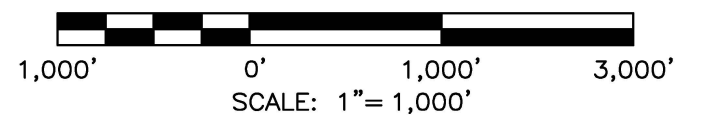
DRAWN BY MST				NISOURCE, INC.	
CHECKED BY				RM SCHAFFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO. 2025010-SCH-NIPSCO		2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453		SEPTEMBER 2025 MOLYBDENUM ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL DEEP WELLS	
DWG FILE 2025010_NIPSCO_ISO_Sept2025 [DeepMolybd]		DRAWING NAME FIGURE E-6		REV. 0	
DRAWING SCALE AS SHOWN					




LEGEND:

- ◆ AGES DEEP MONITORING WELL
- RADIUM 226/228 ISOCONCENTRATION CONTOURS
- - - ESTIMATED RADIUM 226/228 ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR RADIUM 226/228 = 5 pCi/L



DRAWN BY MST			NISOURCE, INC.	
CHECKED BY			RM SCHAFER GENERATING STATION RWS I LANDFILL JASPER COUNTY INDIANA	
JOB NO. 2025010-SCH-NIPSCO		2402 Hookstown Grade Road, Suite 200 Clinton, PA 15026 412.264.6453		SEPTEMBER 2025 RADIUM 226/228 ISOCONCENTRATION CONTOURS FOR IDEM LANDFILL DEEP WELLS
DWG FILE 2025010_NIPSCO_ISO_Sept2025 [DeepRads]		DRAWING NAME FIGURE E-7		REV. 0
DRAWING SCALE AS SHOWN				

APPENDIX F

MASS CALCULATIONS – SEPTEMBER 2025

**TABLE F-1
 MASS CALCULATIONS - COBALT
 SEPTEMBER 2025**

**RM SCHAFFER GENERATING STATION RWS 1
 JASPER COUNTY, INDIANA**

Total Cobalt mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.005	4863146	48169461	14450838	409201499	2046007	2.046	0.0020
0.010	3269167	32381099	9714330	275078732	2750787	2.751	0.0028
0.015	2513302	24894256	7468277	211477703	3172166	3.172	0.0032
0.020	1381838	13687105	4106132	116272508	2325450	2.325	0.0023
0.025	819264	8114810	2434443	68935635	1723391	1.723	0.0017
0.030	236814	2345643	703693	19926328	597790	0.598	0.0006
0.035	85770	849552	254866	7216977	252594	0.253	0.0003
Totals	13,169,301	130,441,926	39,132,578	1,108,109,382	12,868,185	12.868	0.0129

**TABLE F-2
 MASS CALCULATIONS - ARSENIC
 SEPTEMBER 2025**

**RM SCHAHFER GENERATING STATION RWS 1
 JASPER COUNTY, INDIANA**

Total Arsenic mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.005	3972079	101804385	30541315	864832321	4324162	4.32	0.0043
0.010	166718	4272982	1281895	36299156	362992	0.36	0.0004
Totals	4,138,797	106,077,367	31,823,210	901,131,477	4,687,153	4.69	0.0047

**TABLE F-3
 MASS CALCULATIONS - BORON
 SEPTEMBER 2025**

**RM SCHAFER GENERATING STATION RWS 1
 JASPER COUNTY, INDIANA**

Total Boron mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
2	13981270	358339950	107501985	3044112210	6088224419	6088.22	6.09
4	10165942	260553093	78165928	2213408951	8853635804	8853.64	8.85
6	5454412	139796580	41938974	1187577535	7125465211	7125.47	7.13
8	5343825	136962235	41088670	1163499663	9307997302	9308.00	9.31
10	2614252	67003279	20100984	569195533	5691955332	5691.96	5.69
12	2893965	74172323	22251697	630096850	7561162204	7561.16	7.56
Totals	40,453,666	1,036,827,460	311,048,238	8,807,890,742	44,628,440,273	44628.44	44.63

**TABLE F-4
 MASS CALCULATIONS - LITHIUM
 SEPTEMBER 2025**

**RM SCHAFER GENERATING STATION RWS 1
 JASPER COUNTY, INDIANA**

Total Lithium mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.02	8067816	206778124	62033437	1756588435	35131769	35.1318	0.0351
0.04	4965169	127257281	38177184	1081055696	43242228	43.2422	0.0432
0.06	3407643	87337890	26201367	741938870	44516332	44.5163	0.0445
Totals	16,440,628	421,373,296	126,411,989	3,579,583,001	122,890,329	122.8903	0.1229

**TABLE F-5
MASS CALCULATIONS - MOLYBDENUM
SEPTEMBER 2025**

**RM SCHAFFER GENERATING STATION RWS I
JASPER COUNTY, INDIANA**

Total Molybdenum (Shallow) mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.02	8100161	80232095	24069628	681574854	13631497	13.631	0.0136
0.04	4496828	44541081	13362324	378378268	15135131	15.135	0.0151
0.06	2941120	29131794	8739538	247475752	14848545	14.849	0.0148
0.08	1657464	16417181	4925154	139464609	11157169	11.157	0.0112
0.10	696945	6903240	2070972	58643302	5864330	5.864	0.0059
0.12	95249	943441	283032	8014572	961749	0.962	0.0010
Shallow Totals	17,987,767	178,168,832	53,450,650	1,513,551,356	61,598,420	61.598	0.0616

Total Molybdenum (Deep) mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.1	14276252	365900339	109770102	3108338014	310833801	310.83	0.31
0.2	9604657	246167359	73850208	2091201561	418240312	418.24	0.42
0.3	11593112	297131461	89139438	2524143643	757243093	757.24	0.76
0.4	7699582	197340287	59202086	1676413629	670565452	670.57	0.67
0.5	9654077	247433994	74230198	2101961672	1050980836	1050.98	1.05
1.0	5770887	147907834	44372350	1256482965	1256482965	1256.48	1.26
1.5	3122107	80019602	24005881	679769723	1019654585	1019.65	1.02
2.0	1543488	39559597	11867879	336060363	672120725	672.12	0.67
2.5	52269	1339654	401896	11380418	28451046	28.45	0.03
Deep Totals	63,316,431	1,622,800,127	486,840,038	13,785,751,987	6,184,572,814	6184.57	6.18

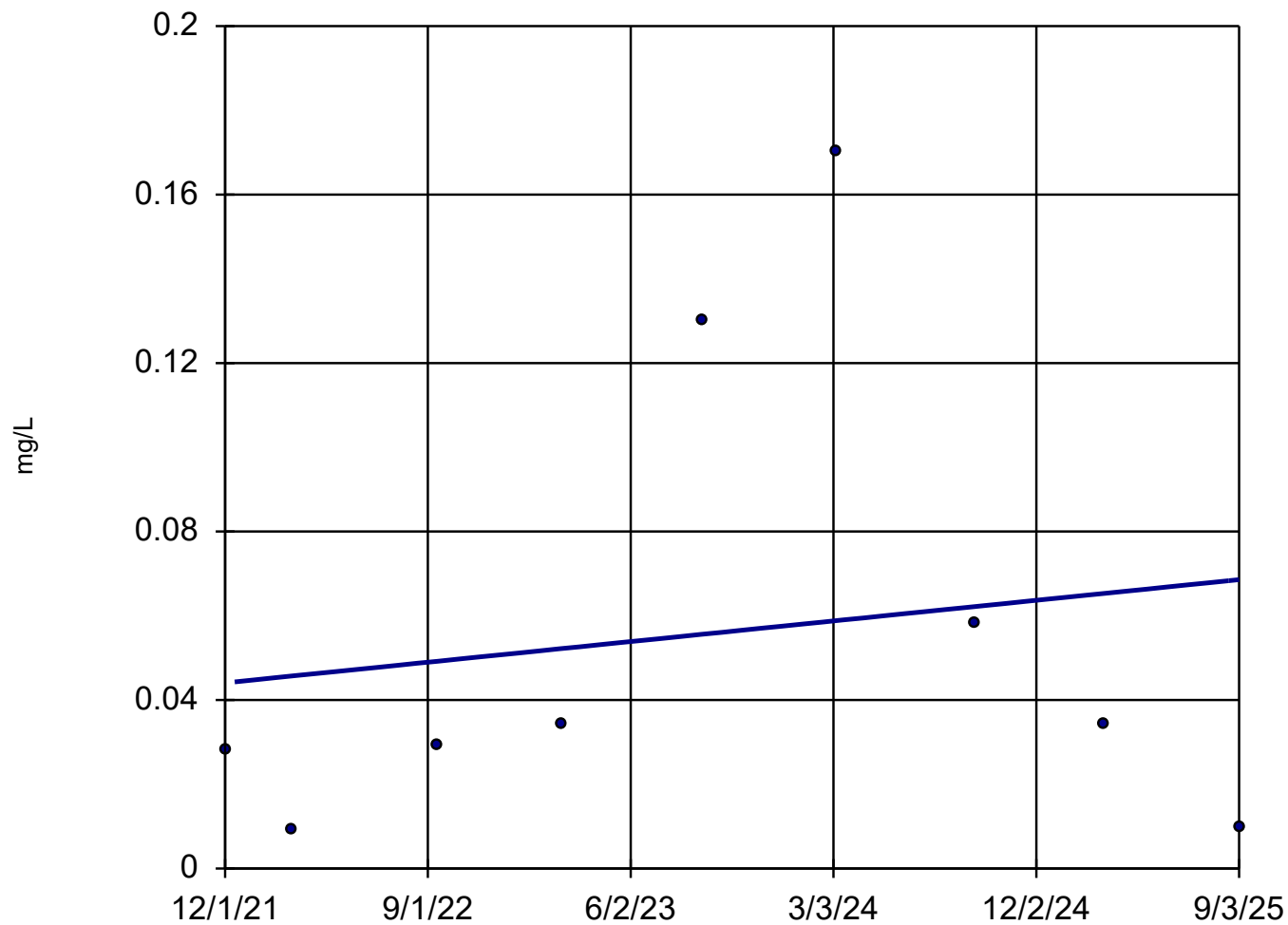
Totals	81,304,198	1,800,968,959	540,290,688	15,299,303,343	6,246,171,235	6,246	6.25
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APPENDIX G

STATISTICAL ANALYSES

Linear Regression

MW-6S



n = 9

Slope = 0.006516
units/year.

alpha = 0.02
t = 0.4116
critical = 2.517

No significant trend.

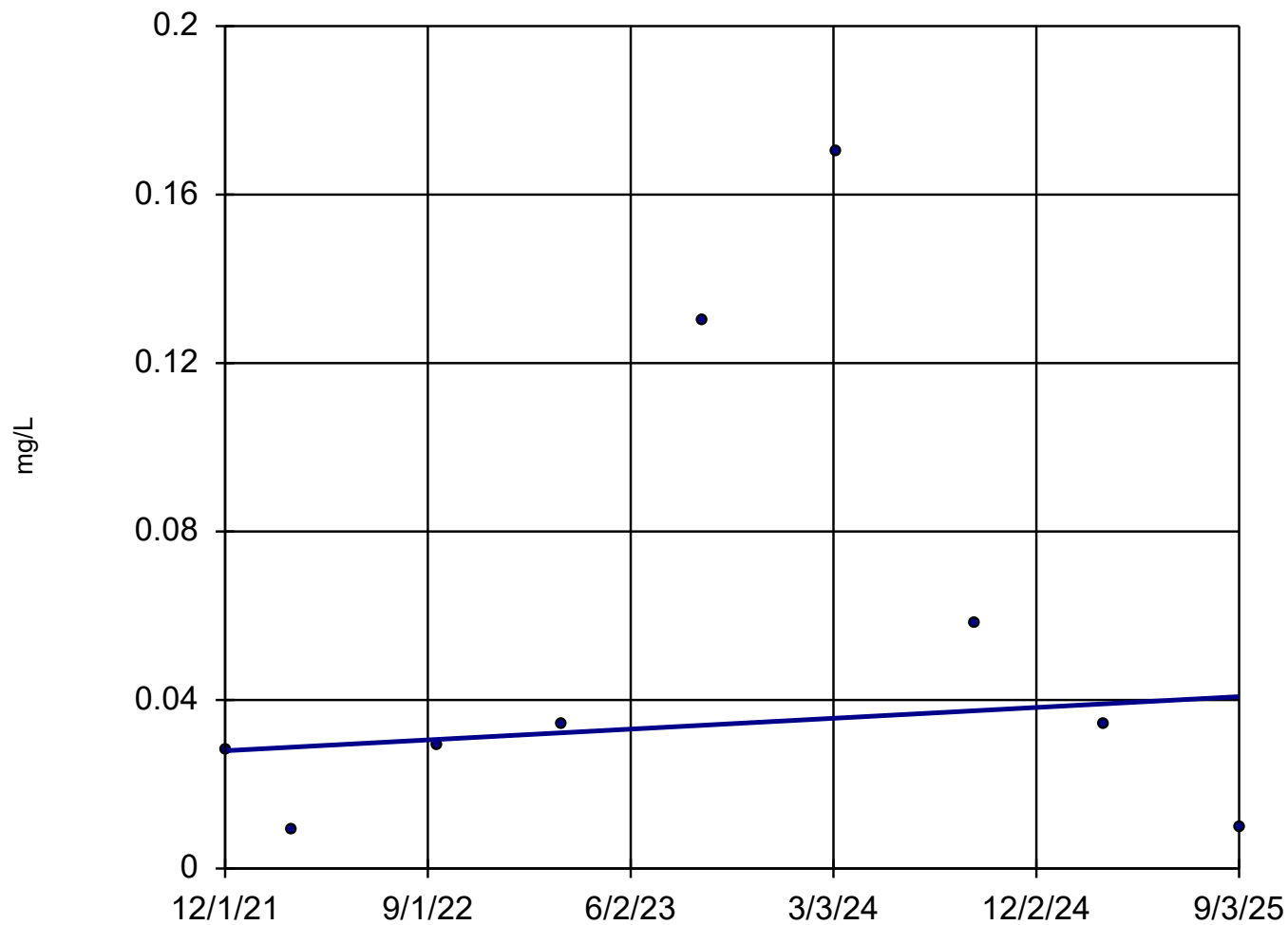
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.8154, critical
= 0.764.

Constituent: Cobalt Analysis Run 11/3/2025 3:13 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-6S



n = 9

Slope = 0.003416
units per year.

Mann-Kendall
statistic = 9
critical = 23

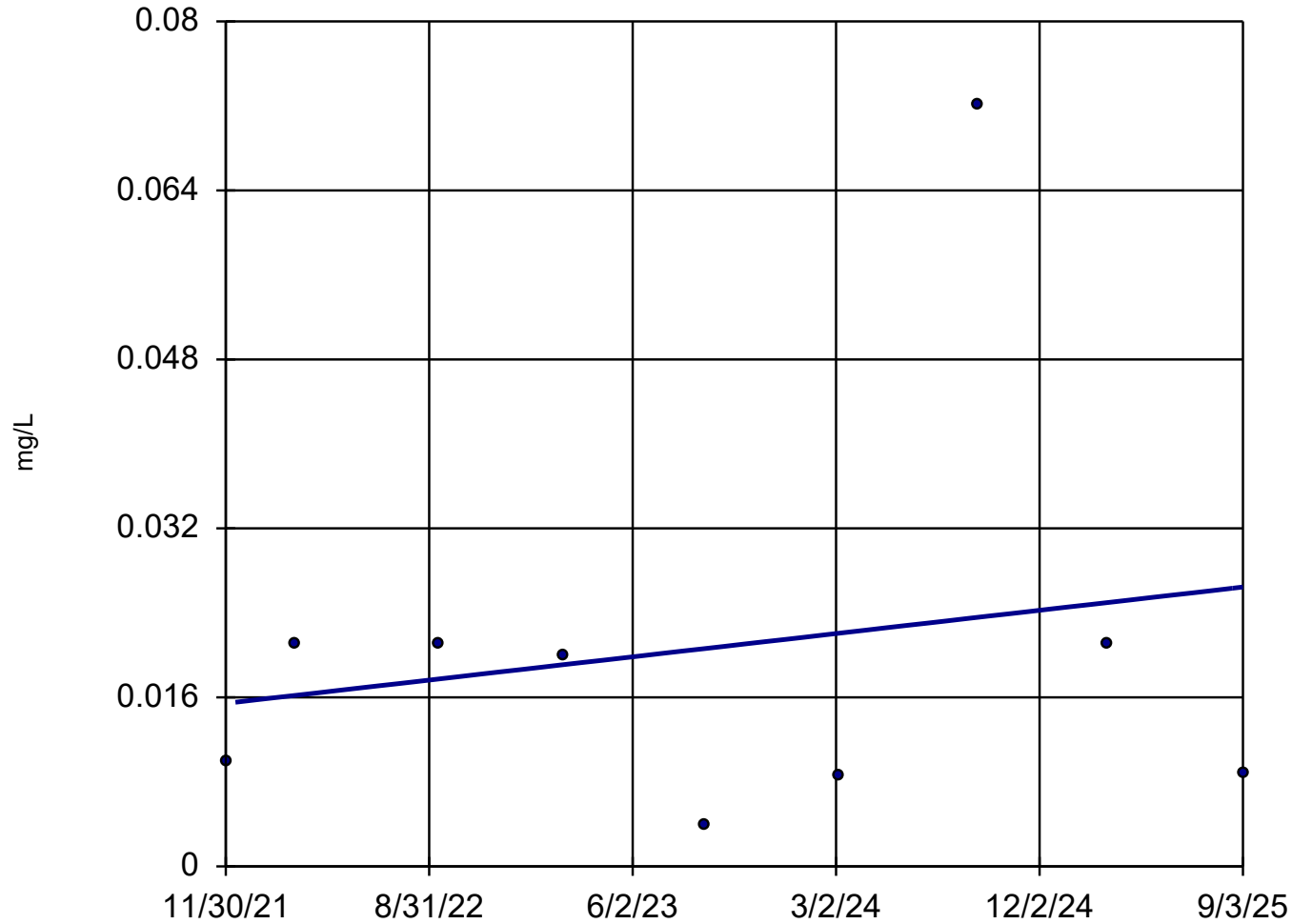
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 11/3/2025 3:13 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-13S



n = 9

Slope = 0.002928
units/year.

alpha = 0.02
t = 0.5138
critical = 2.517

No significant trend.

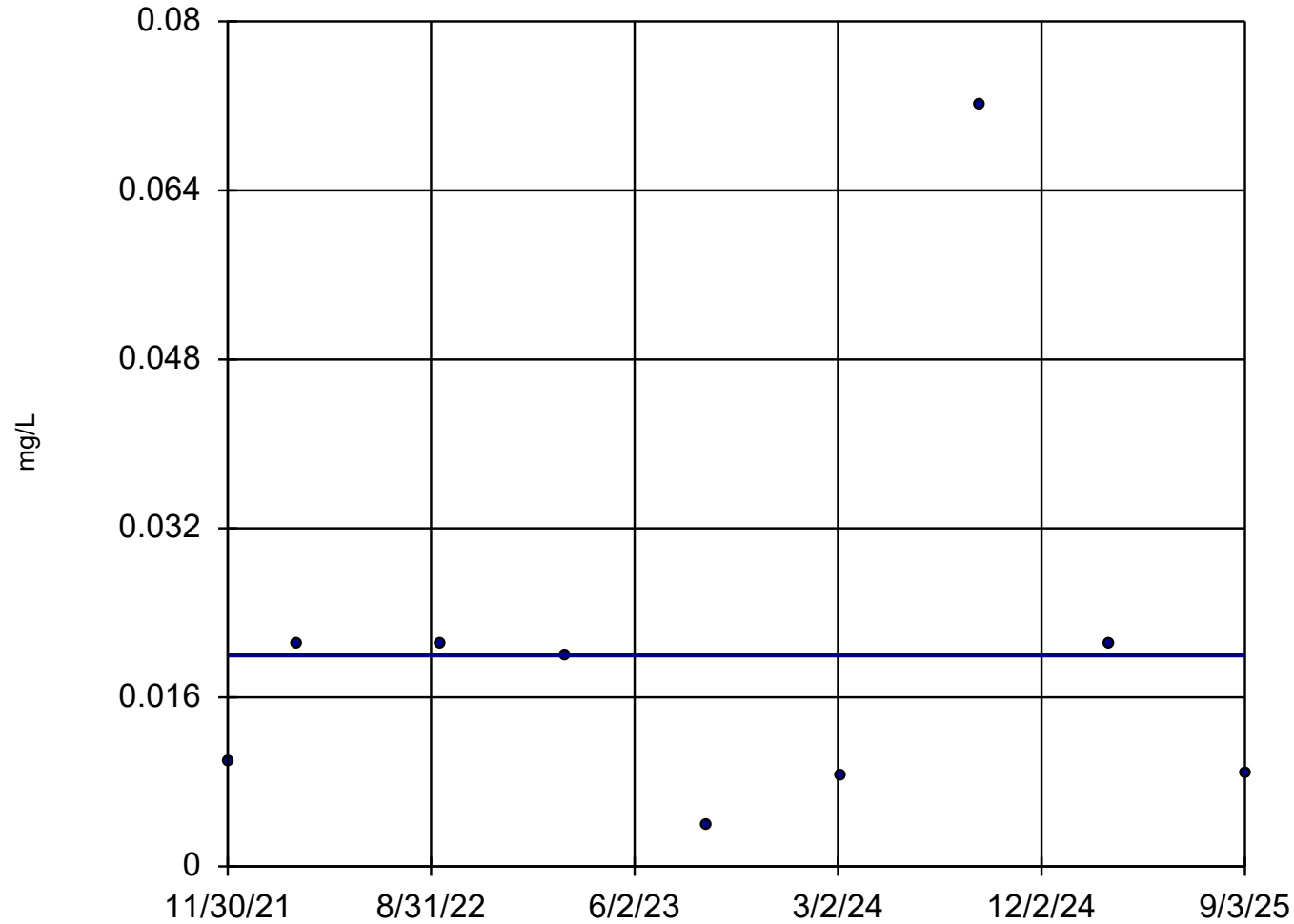
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.7754, critical
= 0.764.

Constituent: Cobalt Analysis Run 11/3/2025 3:15 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-13S



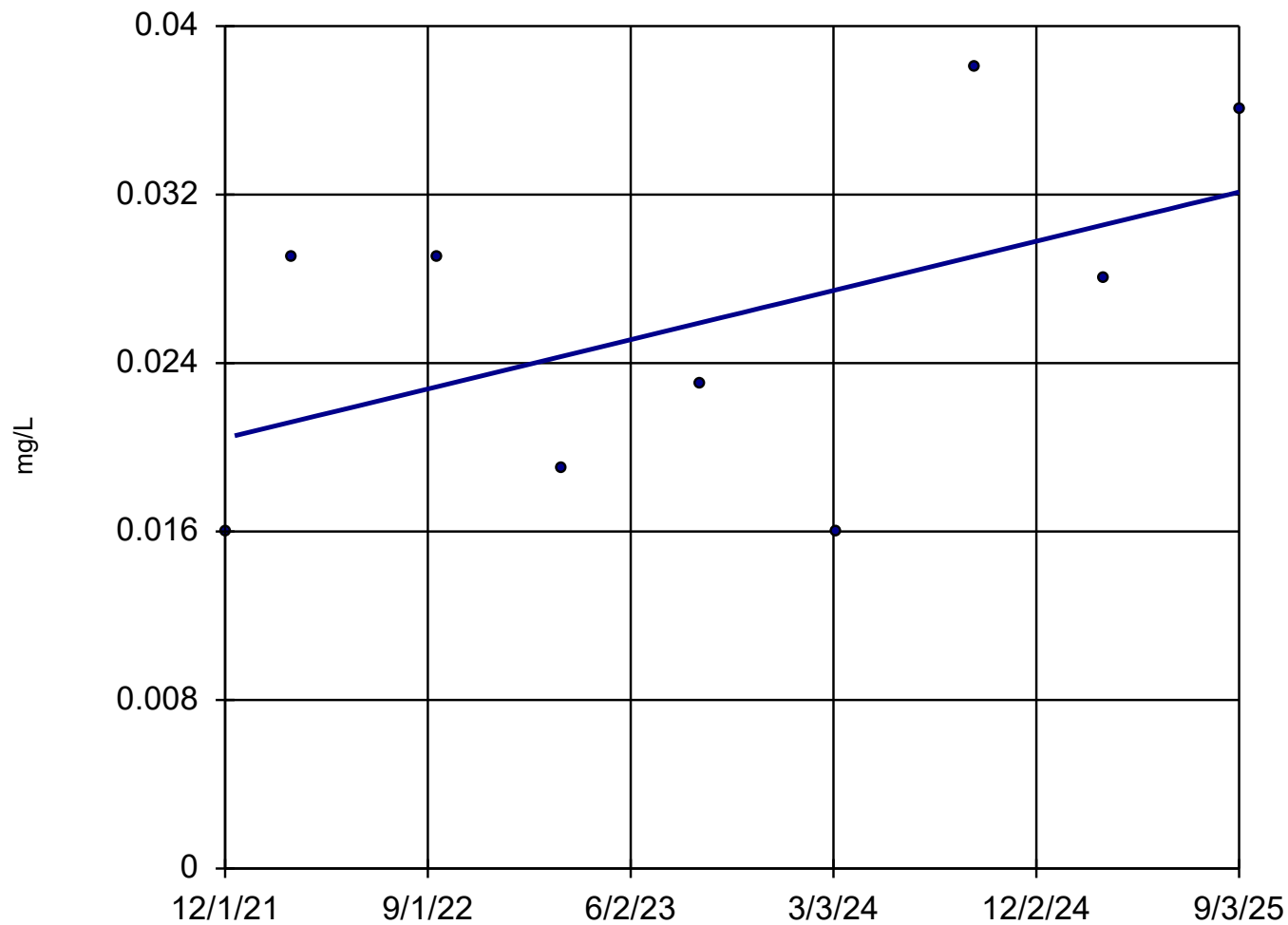
n = 9
Slope = 0
units per year.
Mann-Kendall
statistic = -1
critical = -23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 11/3/2025 3:15 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-14S



n = 9

Slope = 0.003111
units/year.

alpha = 0.02
t = 1.568
critical = 2.517

No significant trend.

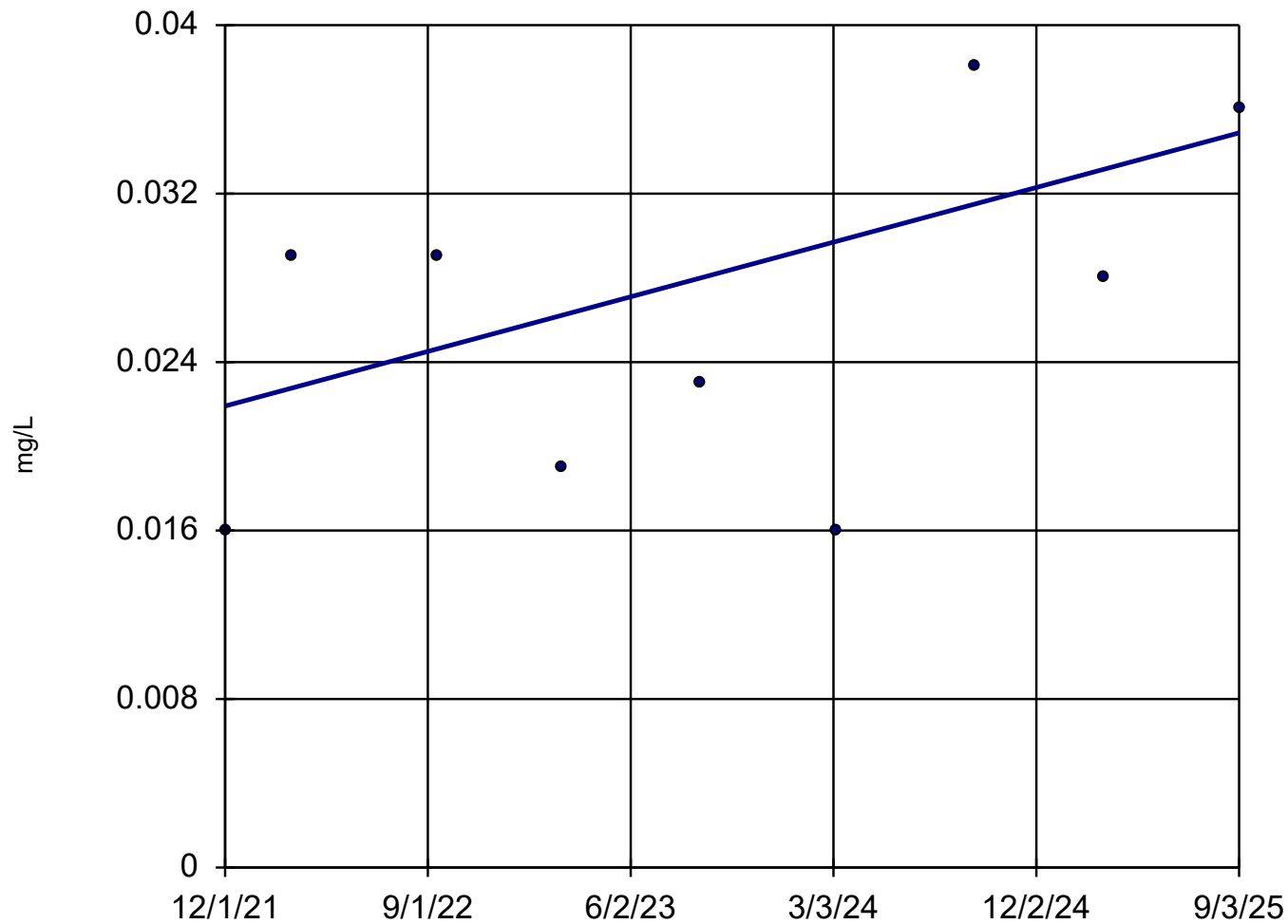
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9308, critical
= 0.764.

Constituent: Cobalt Analysis Run 11/3/2025 3:14 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-14S



n = 9

Slope = 0.003451
units per year.

Mann-Kendall
statistic = 10
critical = 23

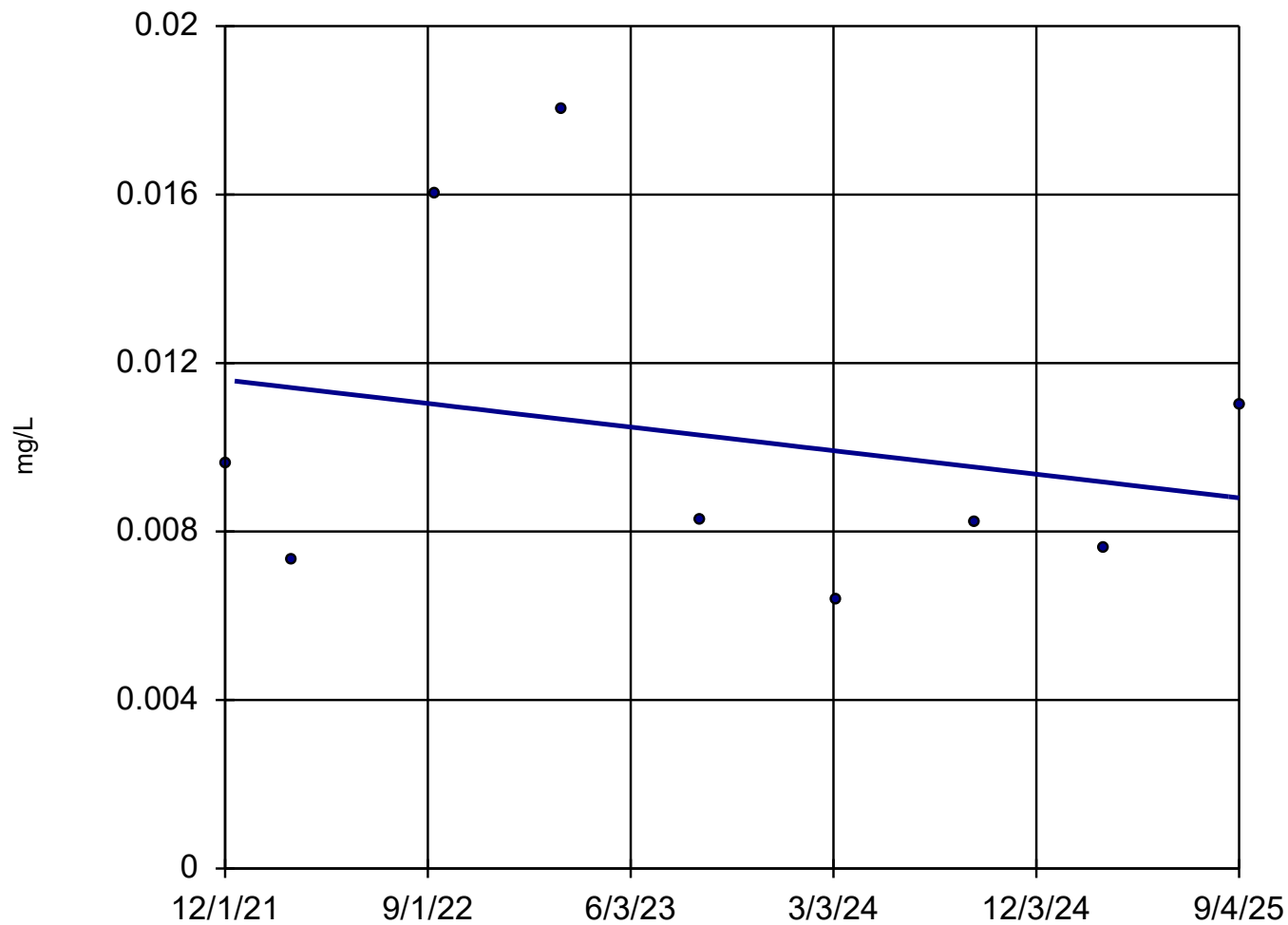
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 11/3/2025 3:14 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-7D



n = 9

Slope = -0.0007448
units/year.

alpha = 0.02
t = -0.6624
critical = 2.517

No significant trend.

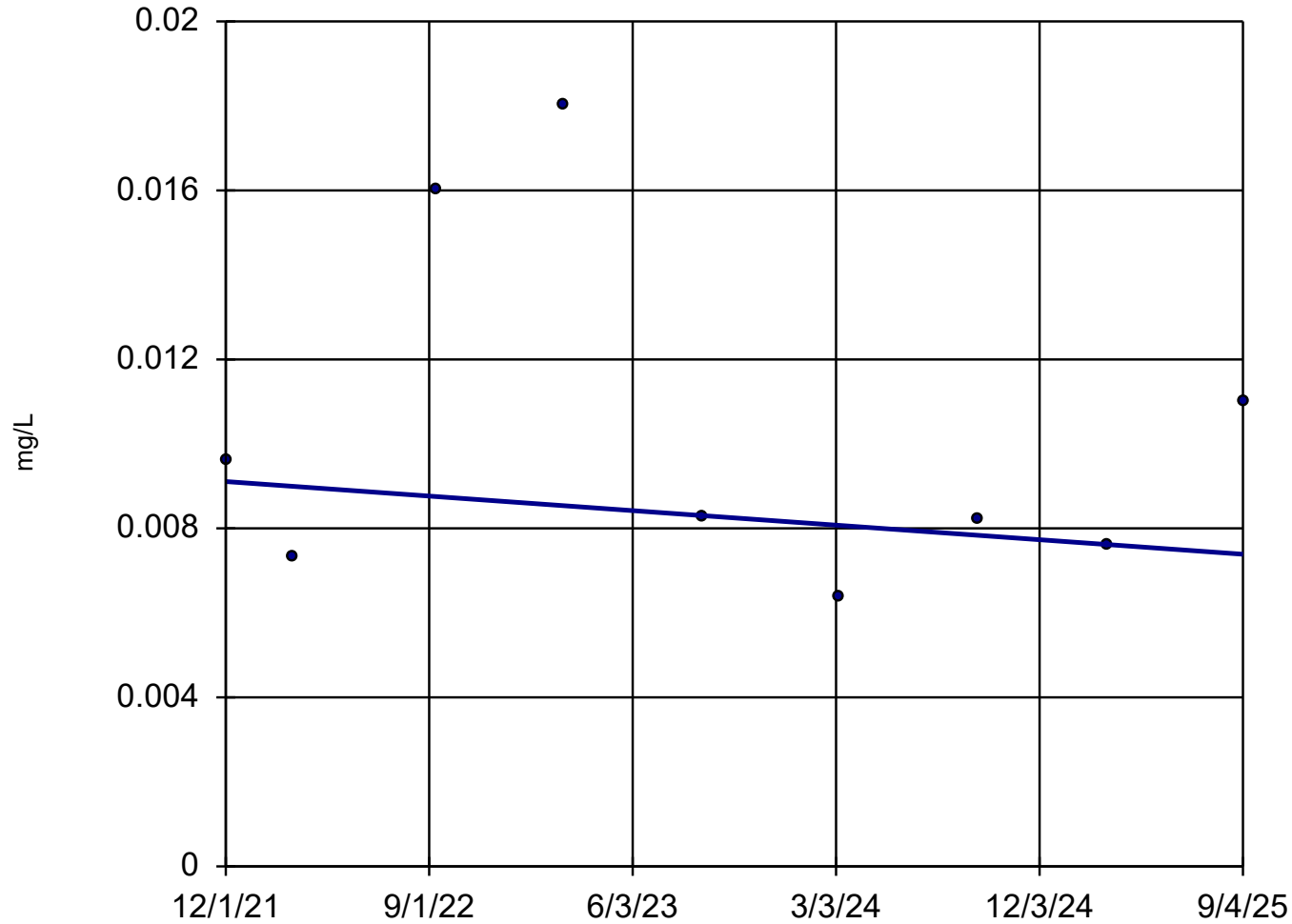
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.8641, critical
= 0.764.

Constituent: Arsenic Analysis Run 11/3/2025 3:24 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-7D



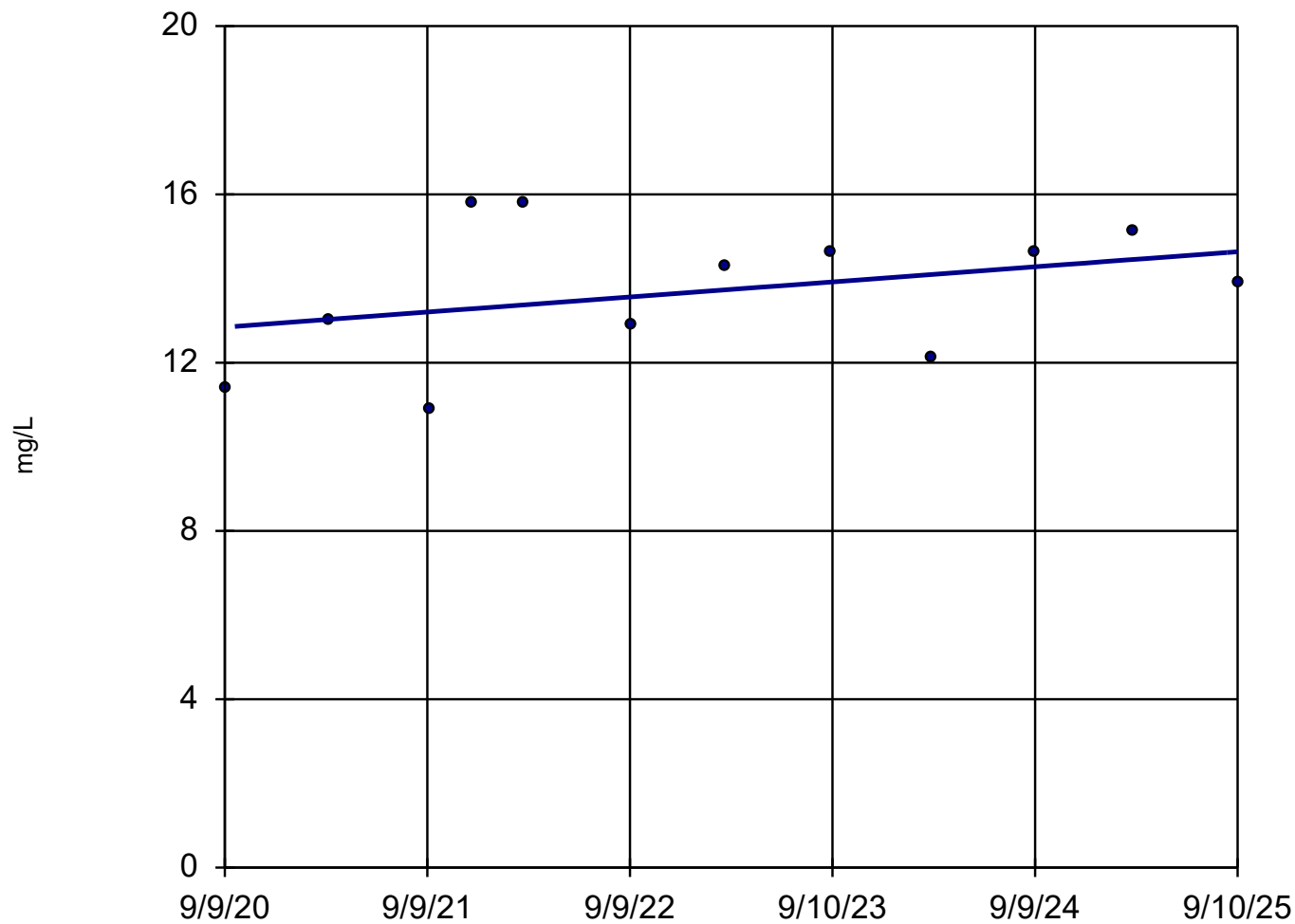
n = 9
Slope = -0.0004576
units per year.
Mann-Kendall
statistic = -4
critical = -23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Arsenic Analysis Run 11/3/2025 3:24 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-5D



n = 12

Slope = 0.3583
units/year.

alpha = 0.02
t = 1.194
critical = 2.359

No significant trend.

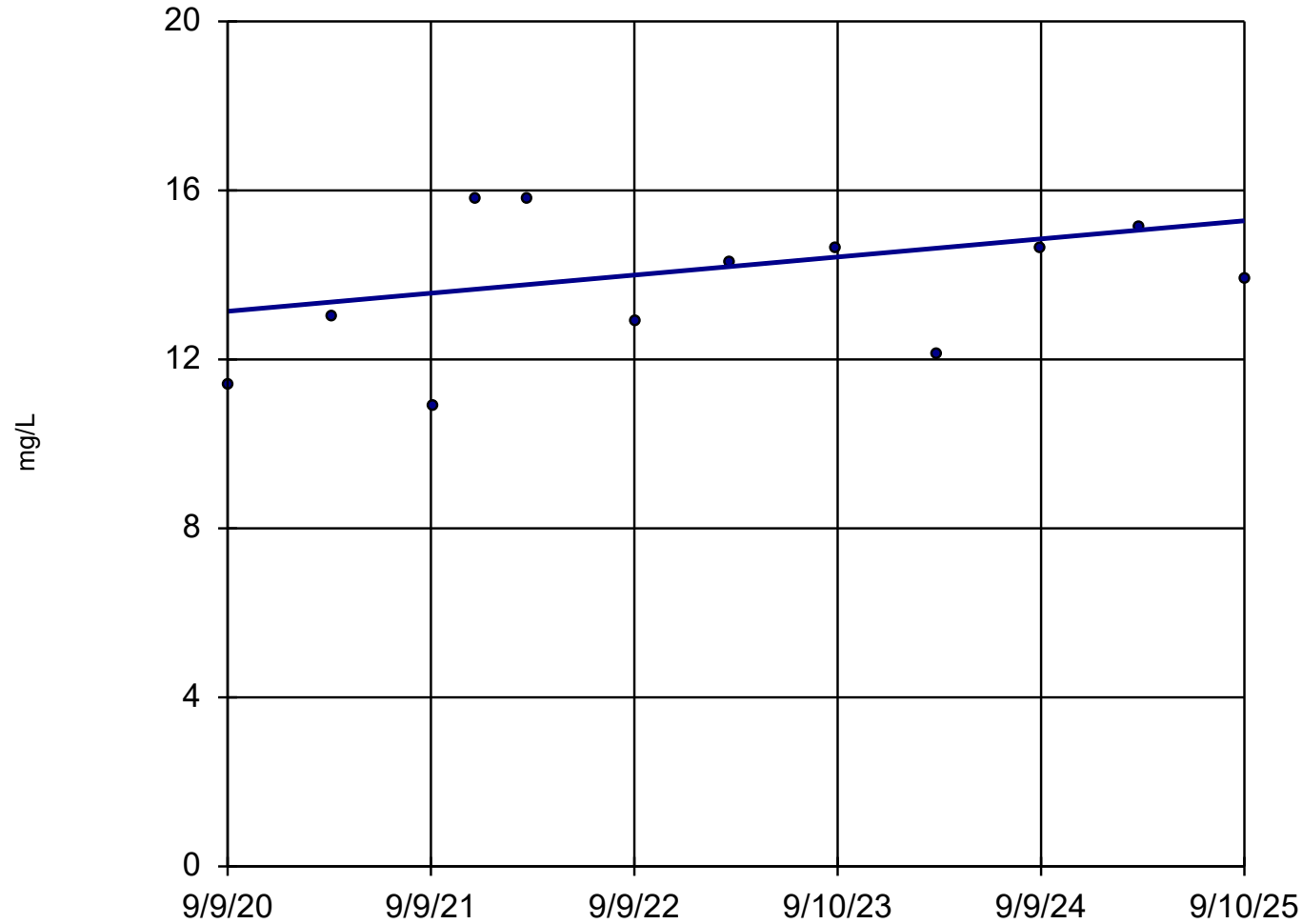
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9475, critical
= 0.805.

Constituent: Boron Analysis Run 11/3/2025 3:25 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-5D



n = 12

Slope = 0.4281
units per year.

Mann-Kendall
statistic = 14
critical = 35

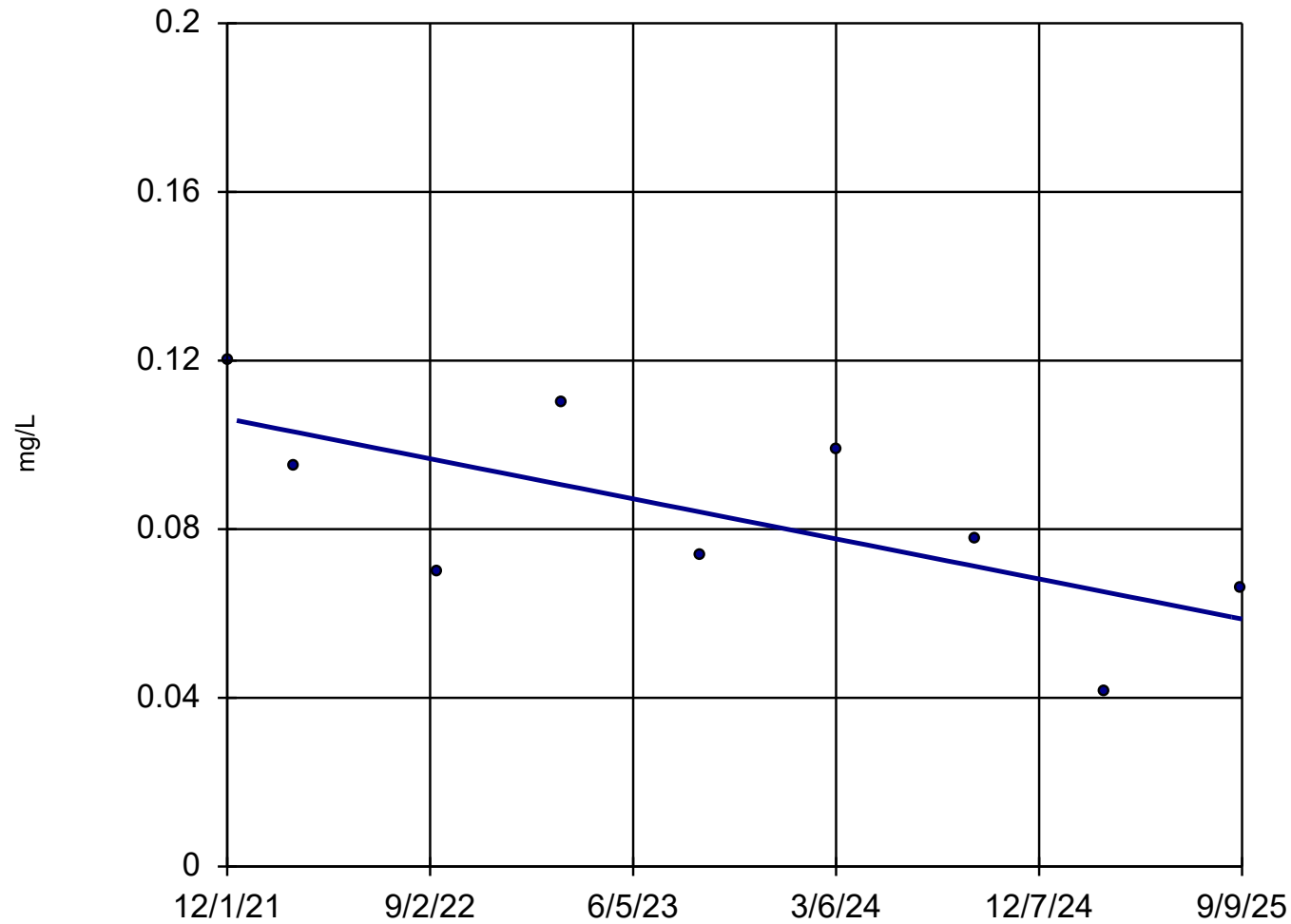
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 11/3/2025 3:26 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-3D



n = 9

Slope = -0.01259
units/year.

alpha = 0.02
t = -2.49
critical = 2.517

No significant trend.

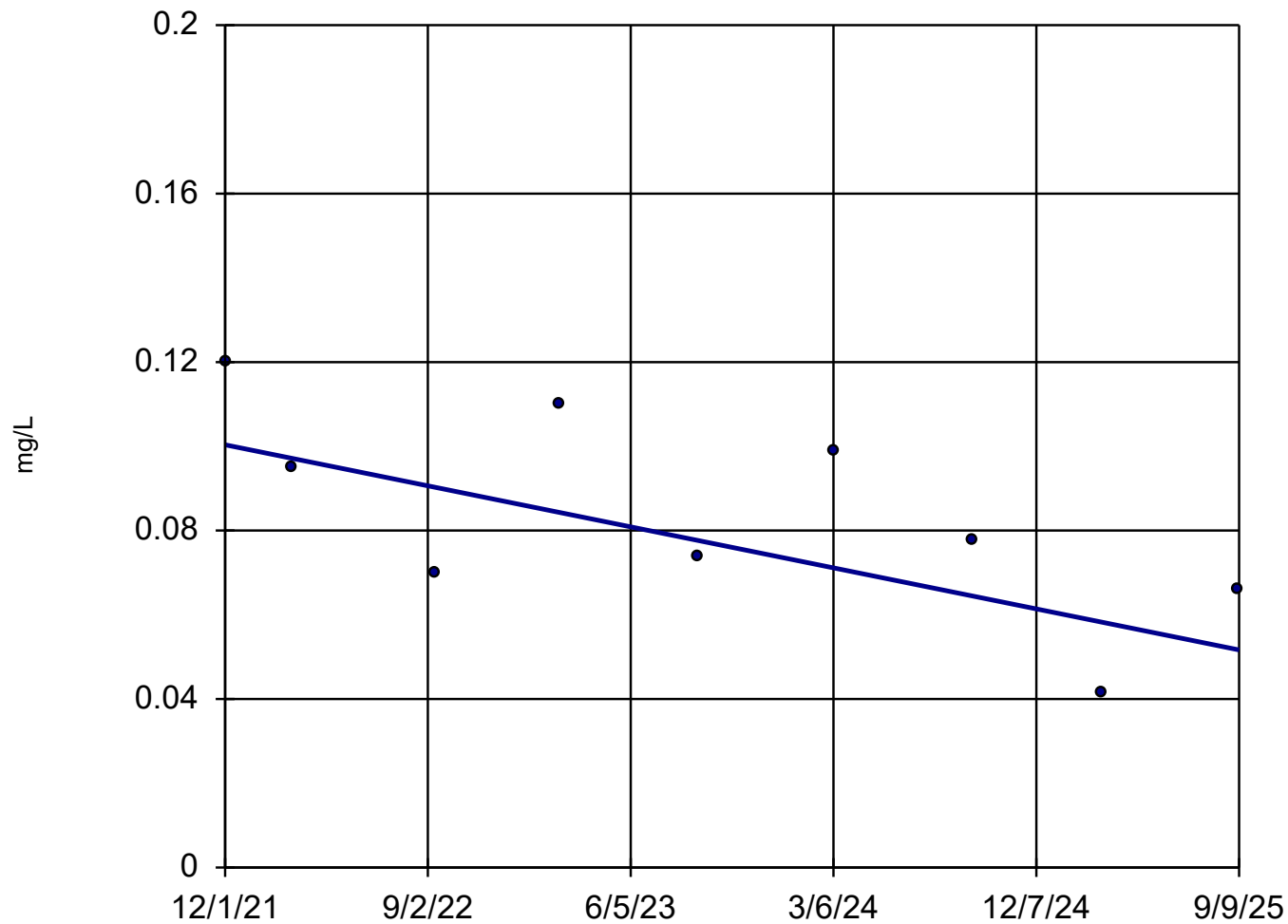
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9165, critical
= 0.764.

Constituent: Lithium Analysis Run 11/3/2025 3:27 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-3D



n = 9

Slope = -0.01289
units per year.

Mann-Kendall
statistic = -18
critical = -23

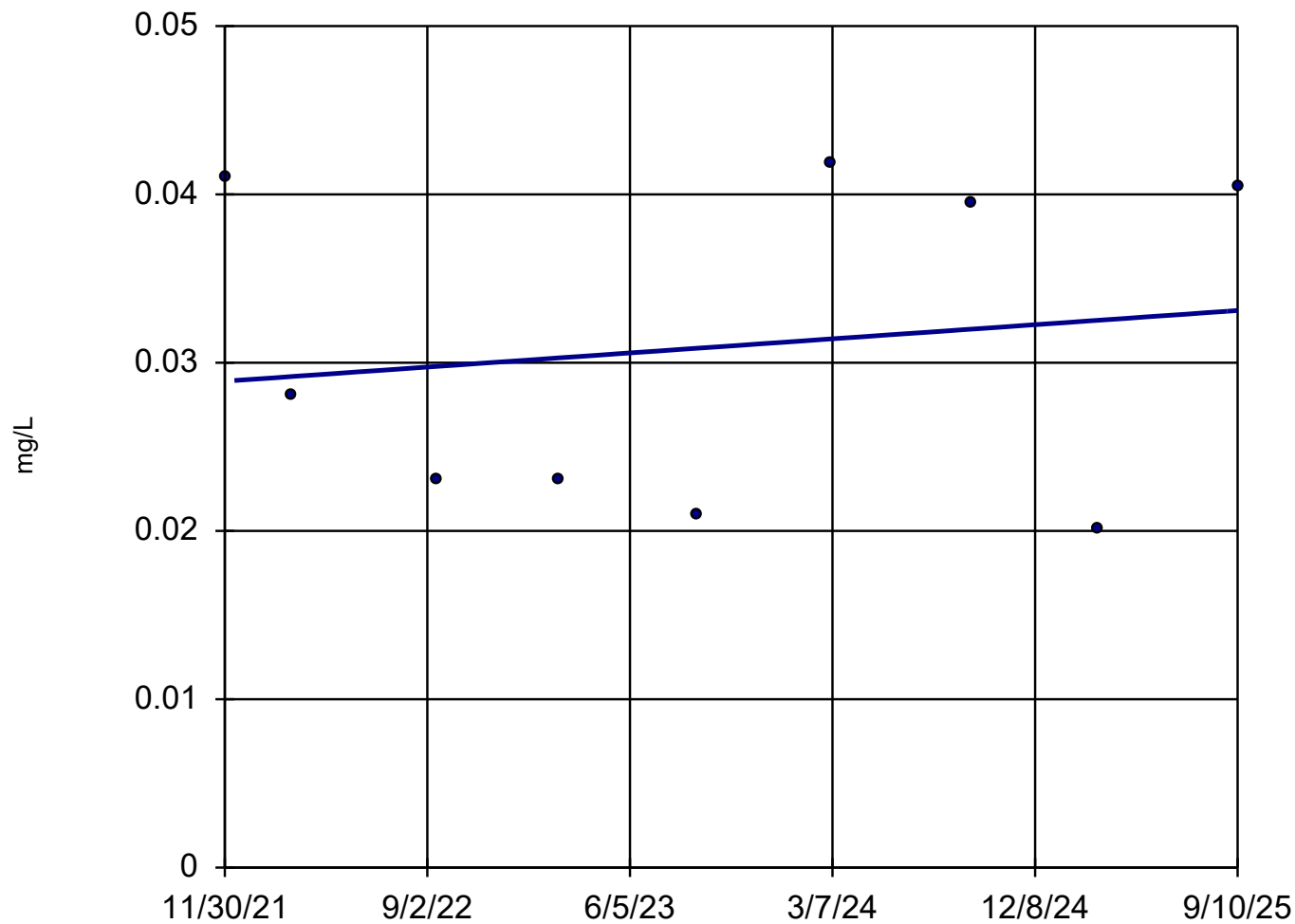
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 11/3/2025 3:28 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-5D



n = 9

Slope = 0.001111
units/year.

alpha = 0.02
t = 0.4124
critical = 2.517

No significant trend.

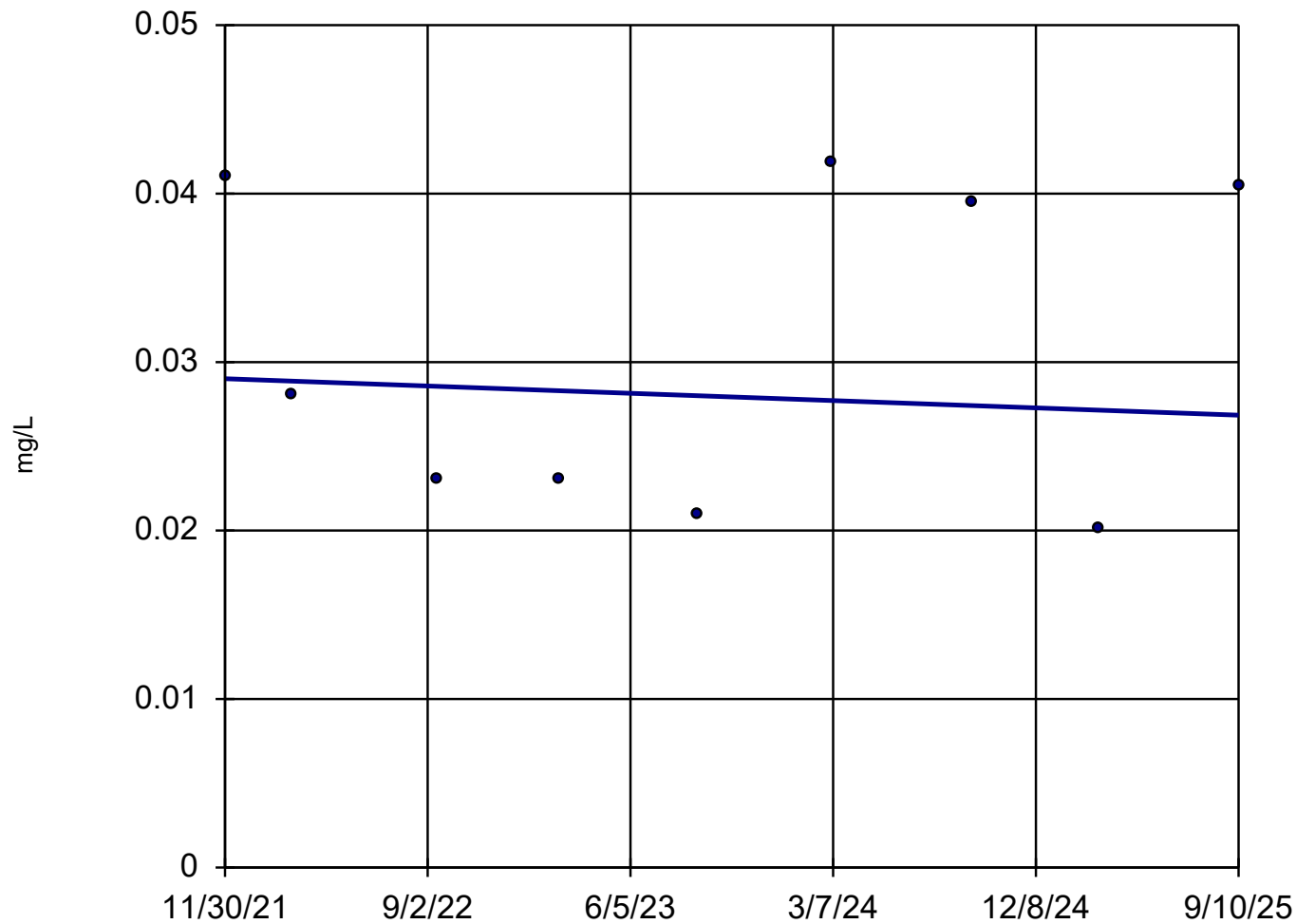
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.89, critical =
0.764.

Constituent: Lithium Analysis Run 11/3/2025 3:28 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-5D



n = 9

Slope = -0.0005708
units per year.

Mann-Kendall
statistic = -5
critical = -23

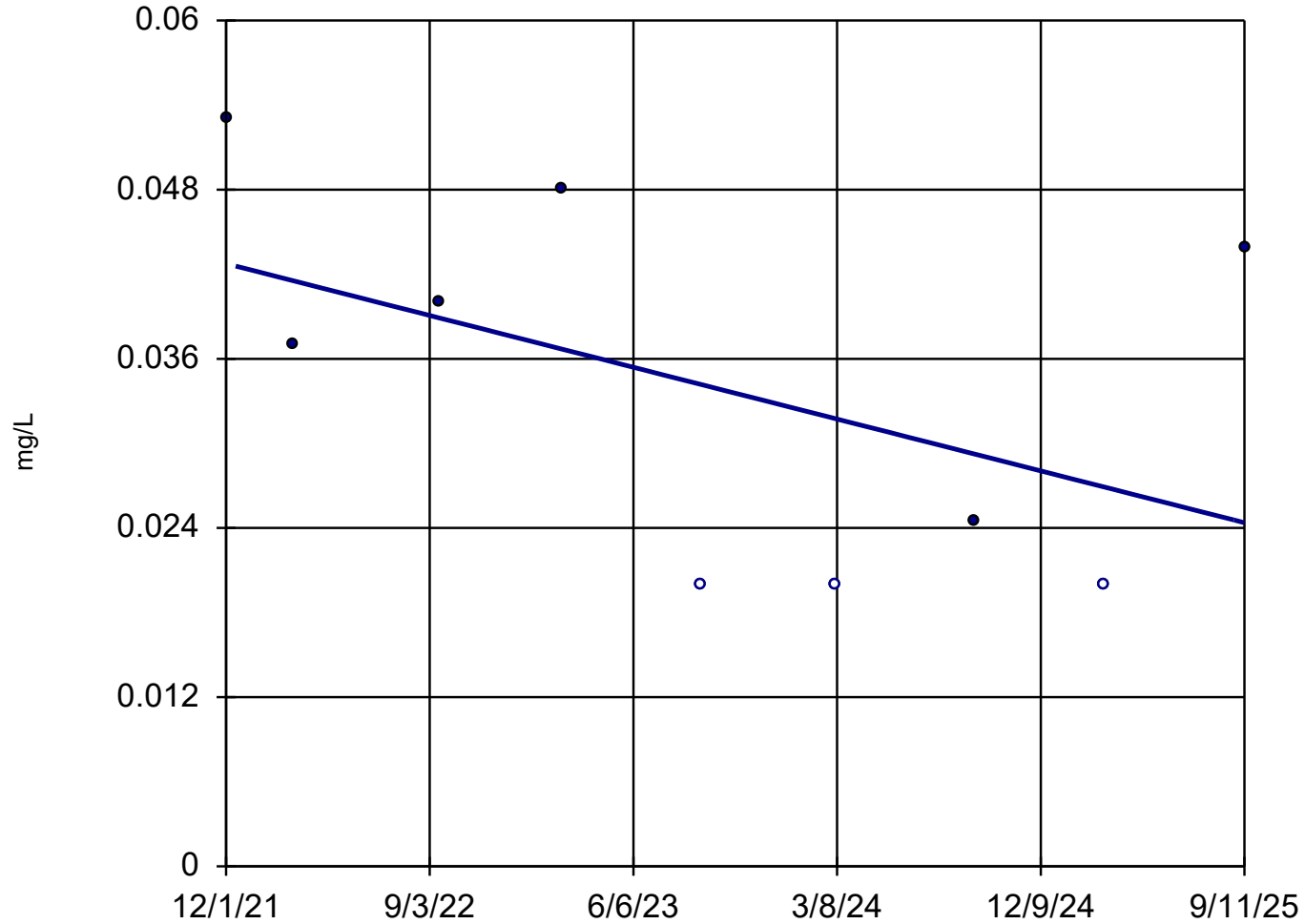
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 11/3/2025 3:29 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-9D



n = 9
33.33% NDs
Slope = -0.004863
units/year.
alpha = 0.02
t = -1.501
critical = 2.517
No significant trend.

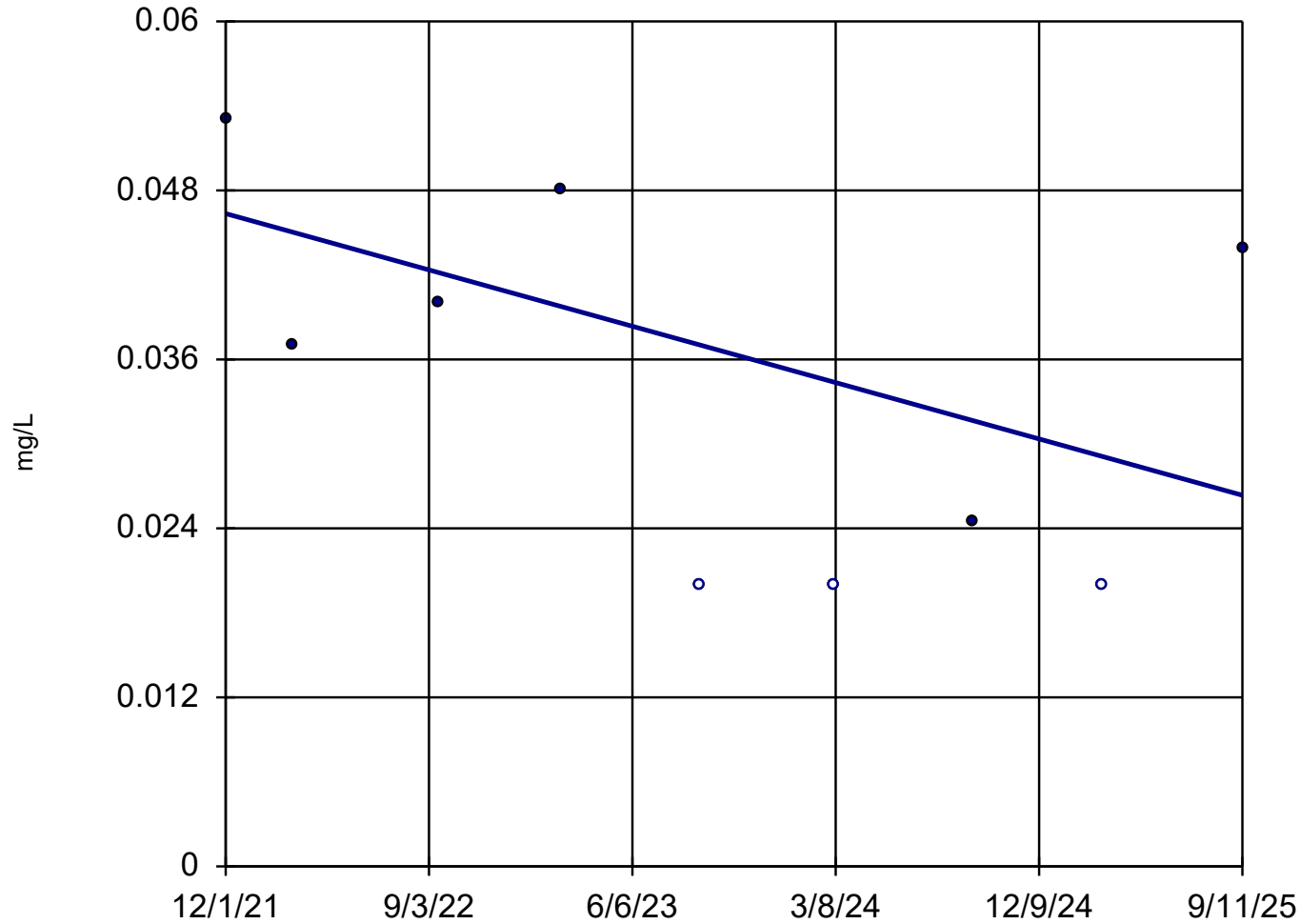
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9351, critical
= 0.764.

Constituent: Lithium Analysis Run 11/3/2025 3:29 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-9D



n = 9

Slope = -0.005289
units per year.

Mann-Kendall
statistic = -11
critical = -23

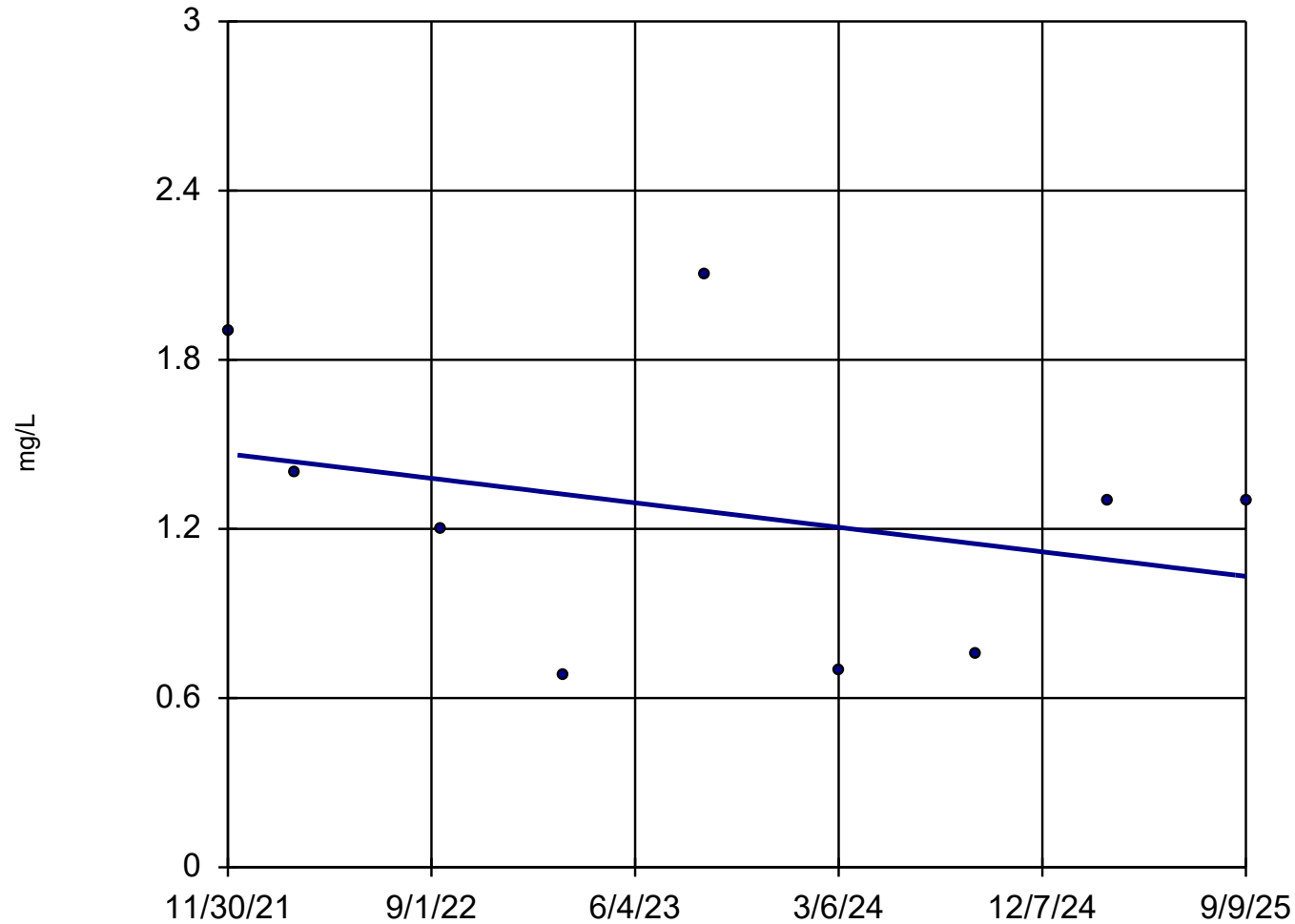
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 11/3/2025 3:30 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-2D



n = 9

Slope = -0.115
units/year.

alpha = 0.02
t = -0.8416
critical = 2.517

No significant trend.

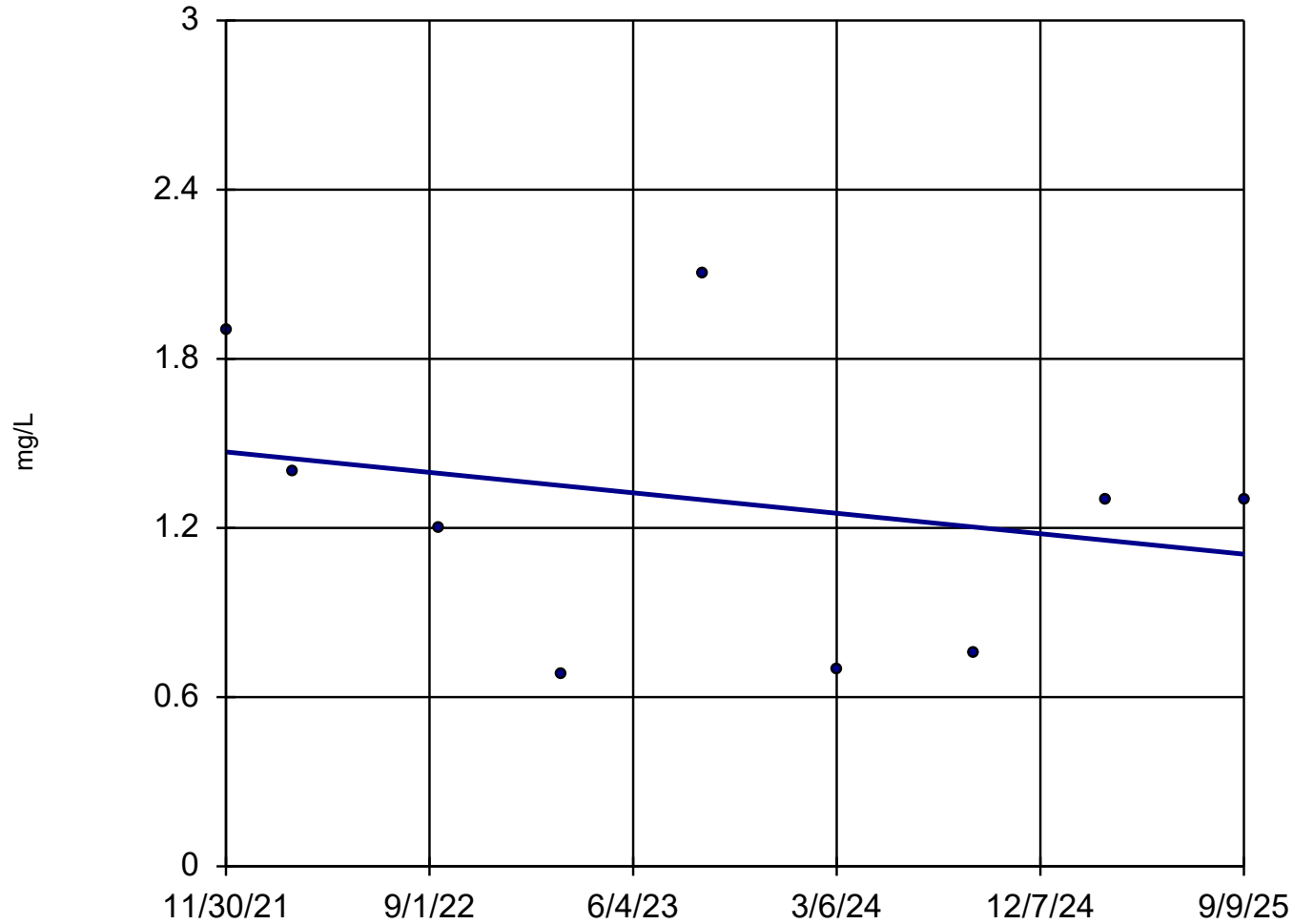
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9707, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:09 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-2D

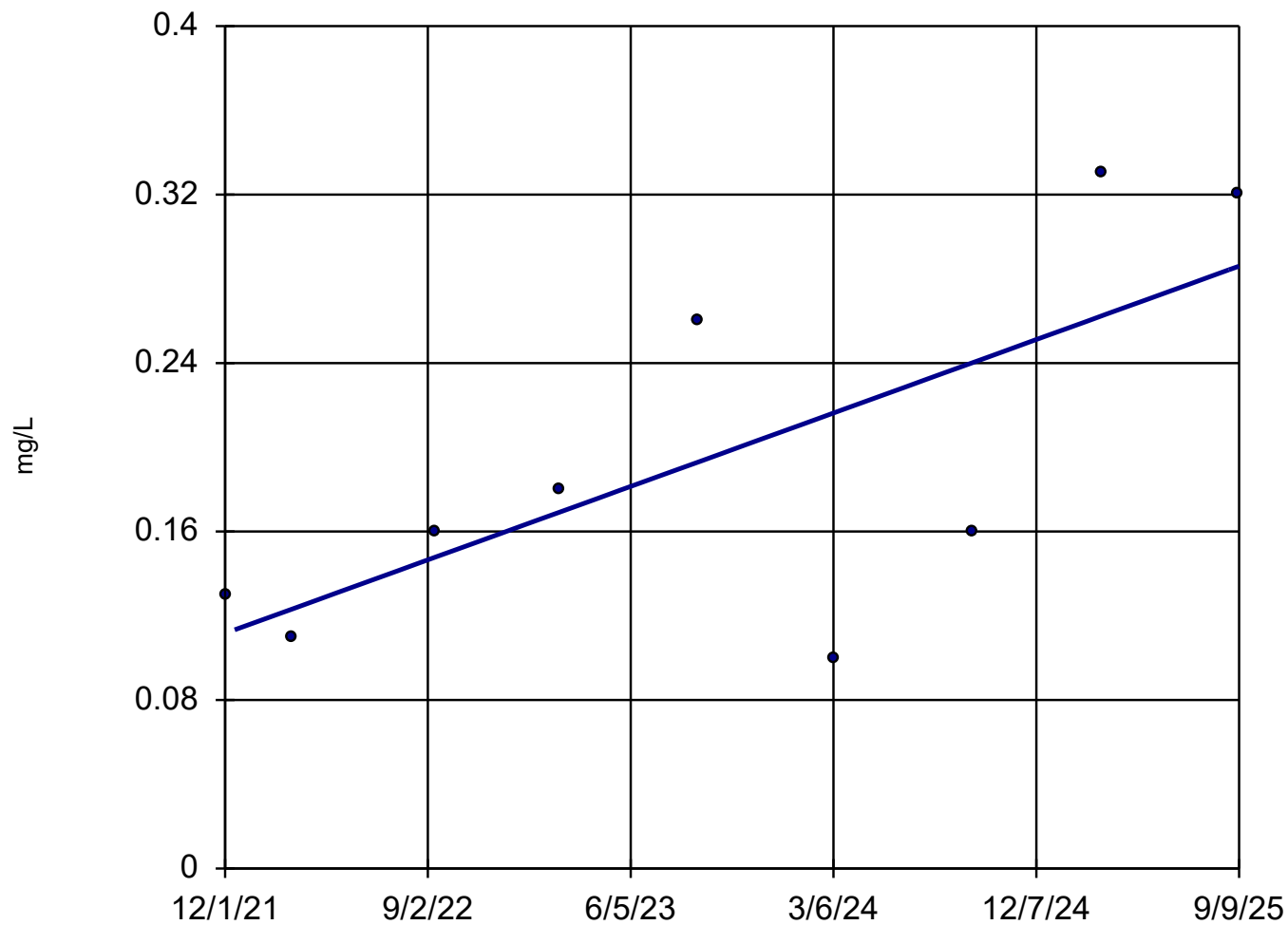


n = 9
Slope = -0.09601
units per year.
Mann-Kendall
statistic = -5
critical = -23
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:20 PM
R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-3D



n = 9

Slope = 0.04621
units/year.

alpha = 0.02
t = 2.615
critical = 2.517

Significant increasing trend.

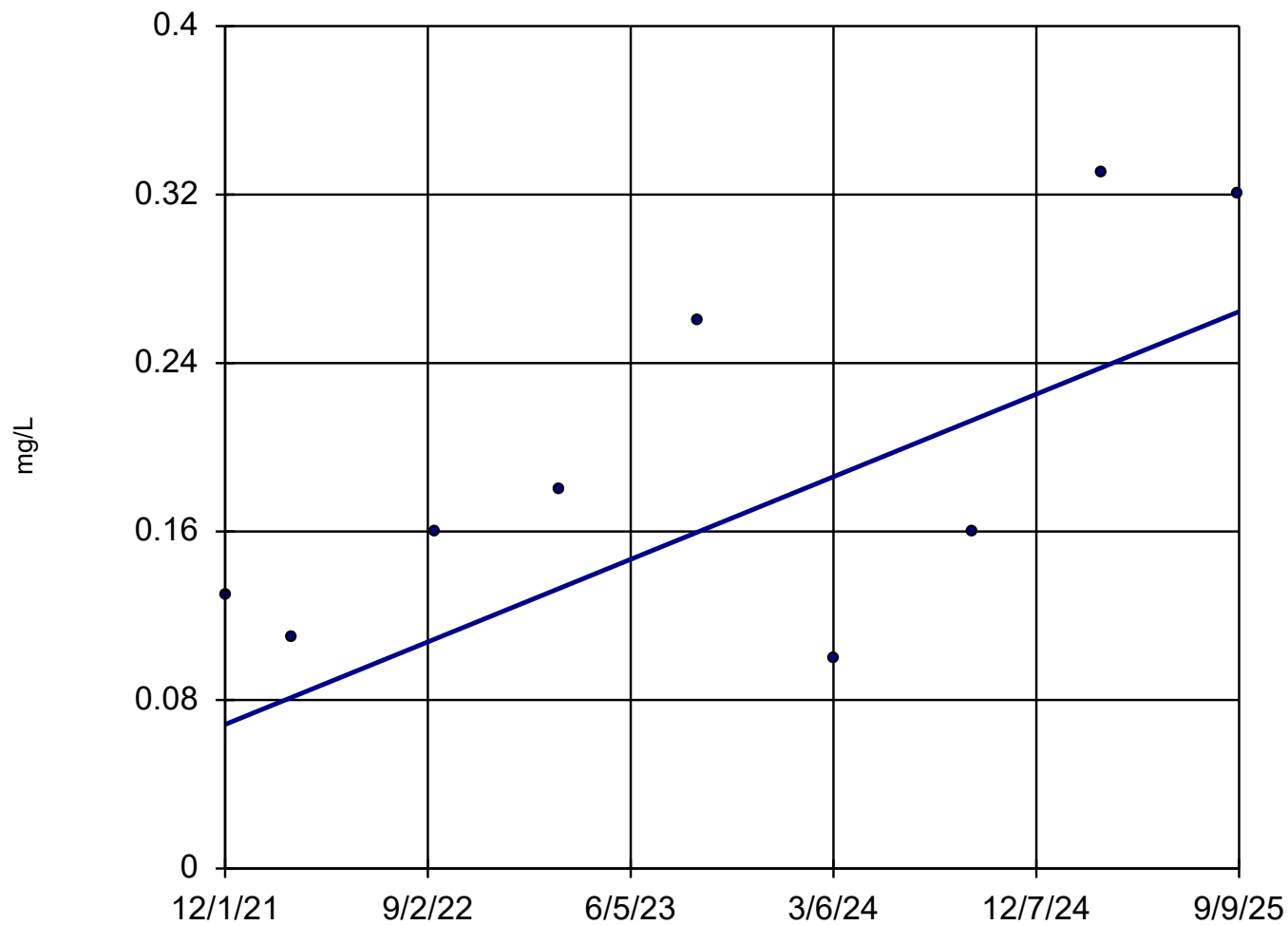
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.8918, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:10 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-3D



n = 9

Slope = 0.05193
units per year.

Mann-Kendall
statistic = 17
critical = 23

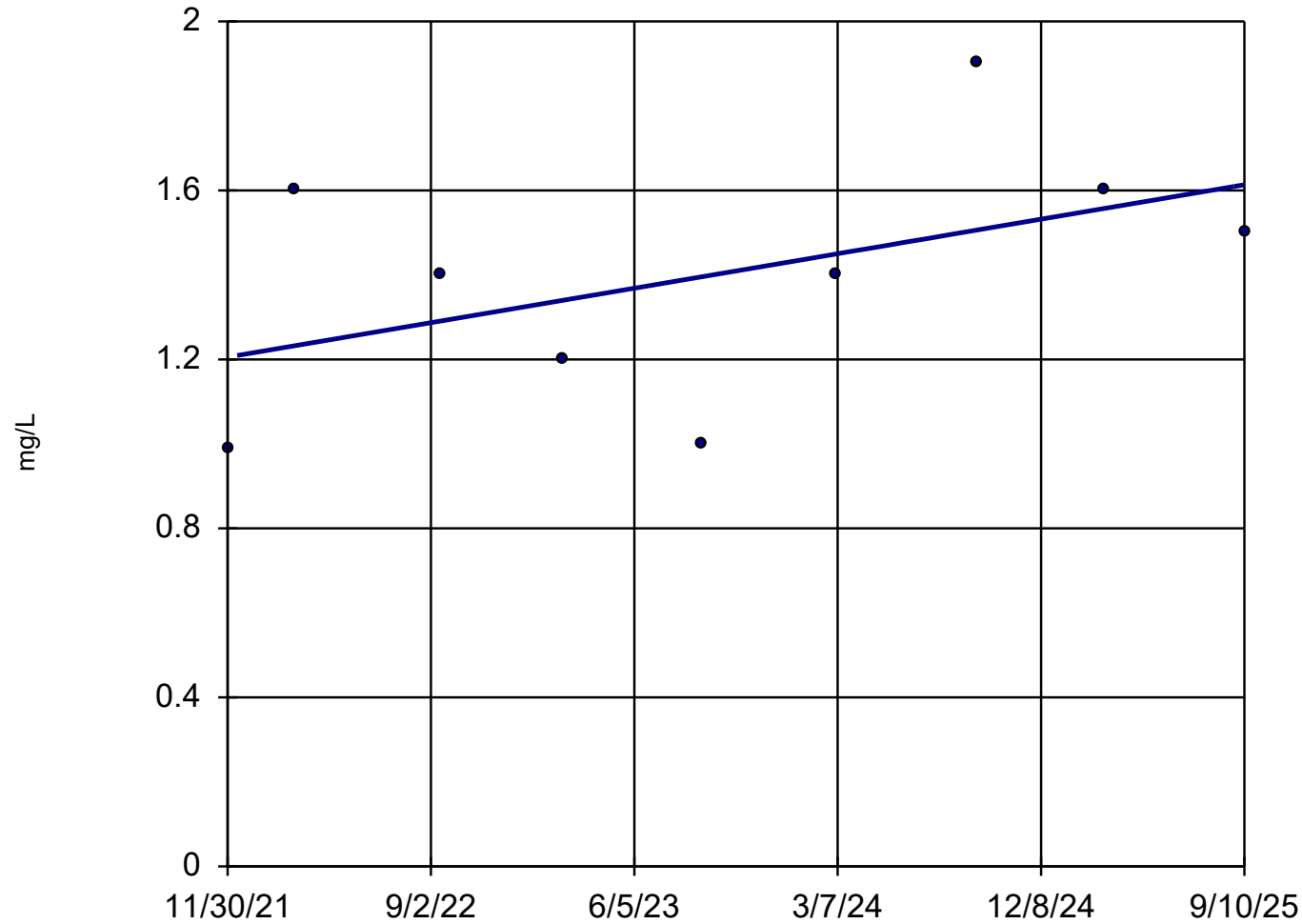
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:20 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-4D



n = 9

Slope = 0.108
units/year.

alpha = 0.02
t = 1.459
critical = 2.517

No significant trend.

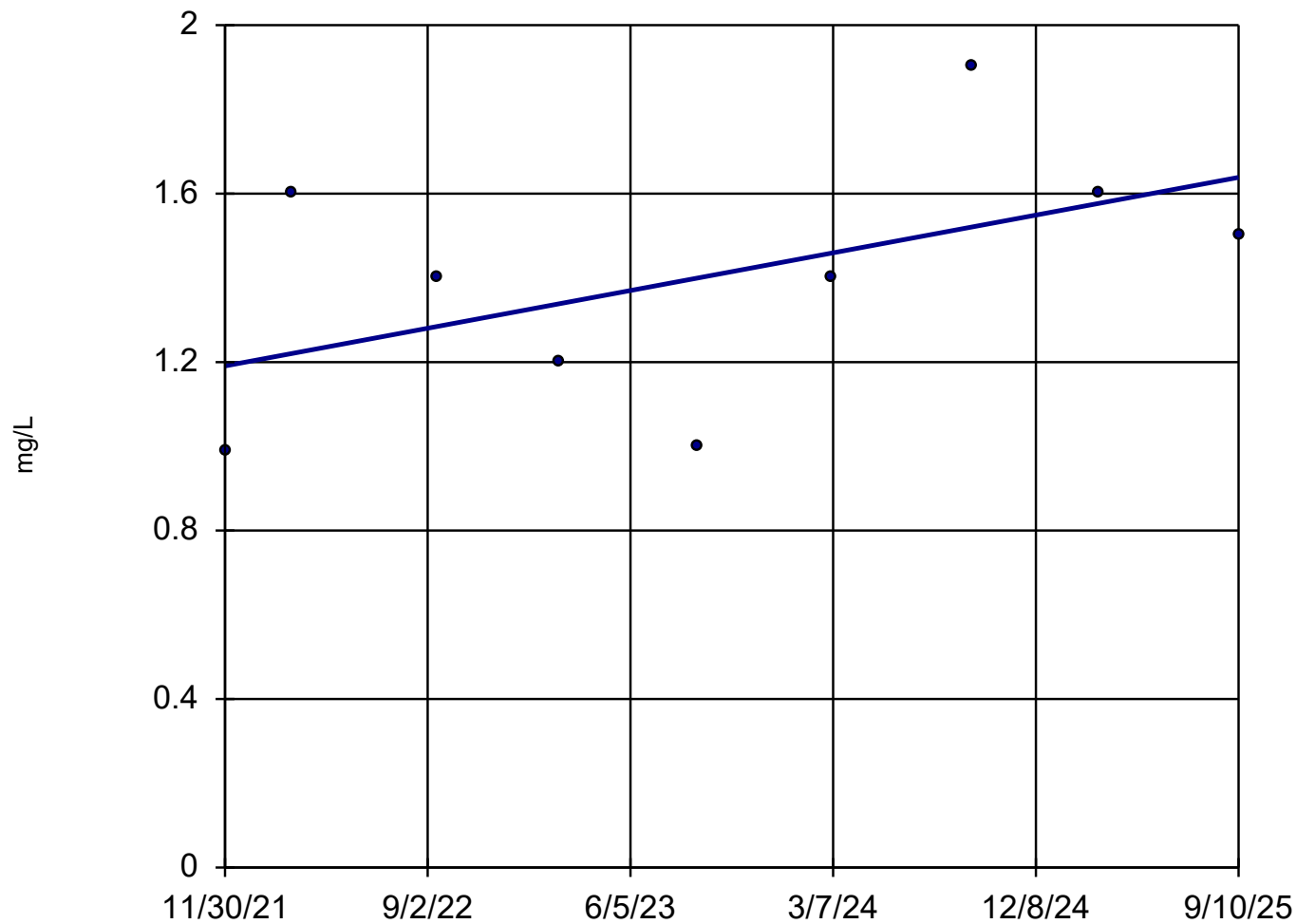
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9516, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:21 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-4D



n = 9

Slope = 0.1184
units per year.

Mann-Kendall
statistic = 12
critical = 23

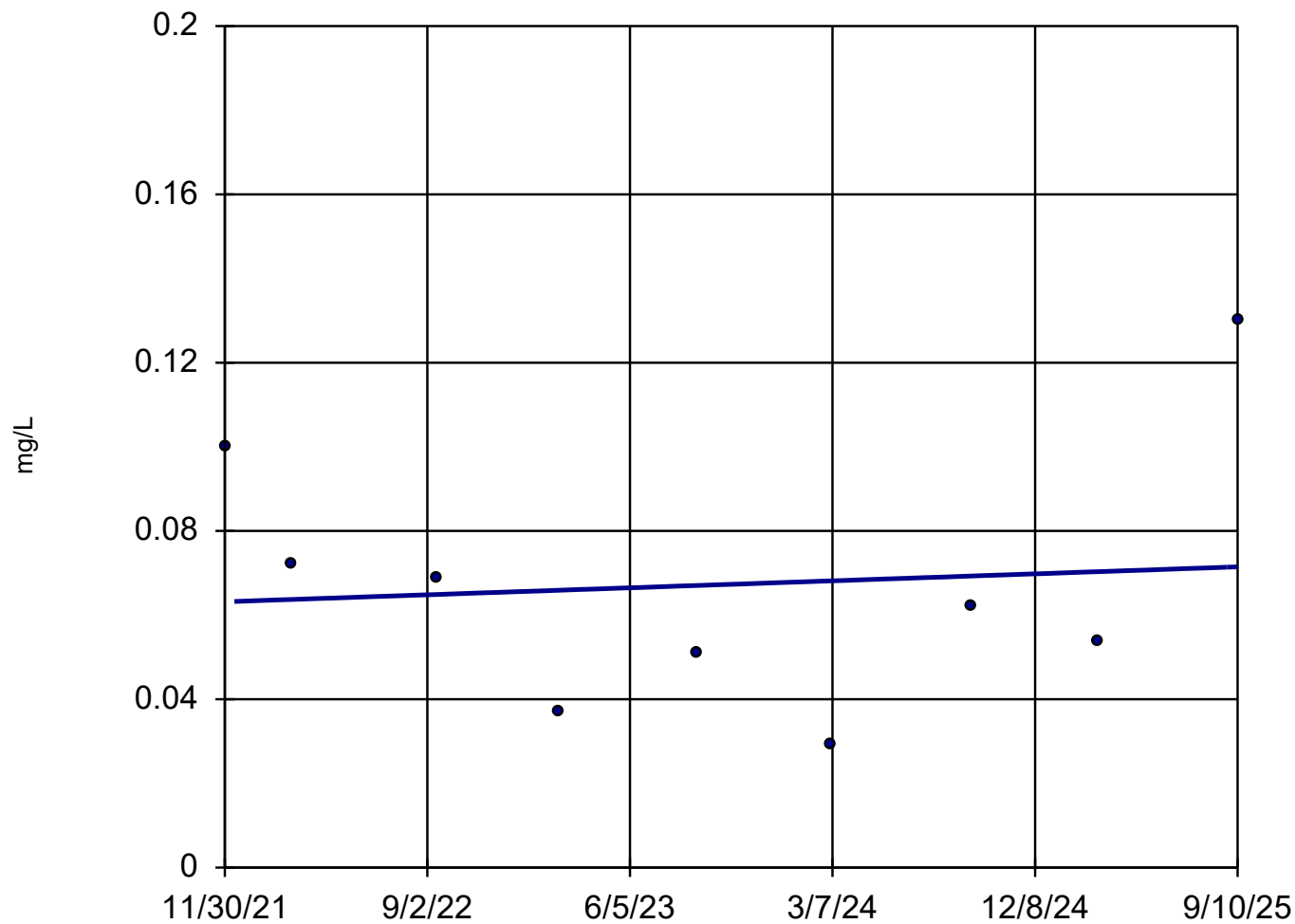
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:22 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-4S



n = 9

Slope = 0.002195
units/year.

alpha = 0.02
t = 0.2473
critical = 2.517

No significant trend.

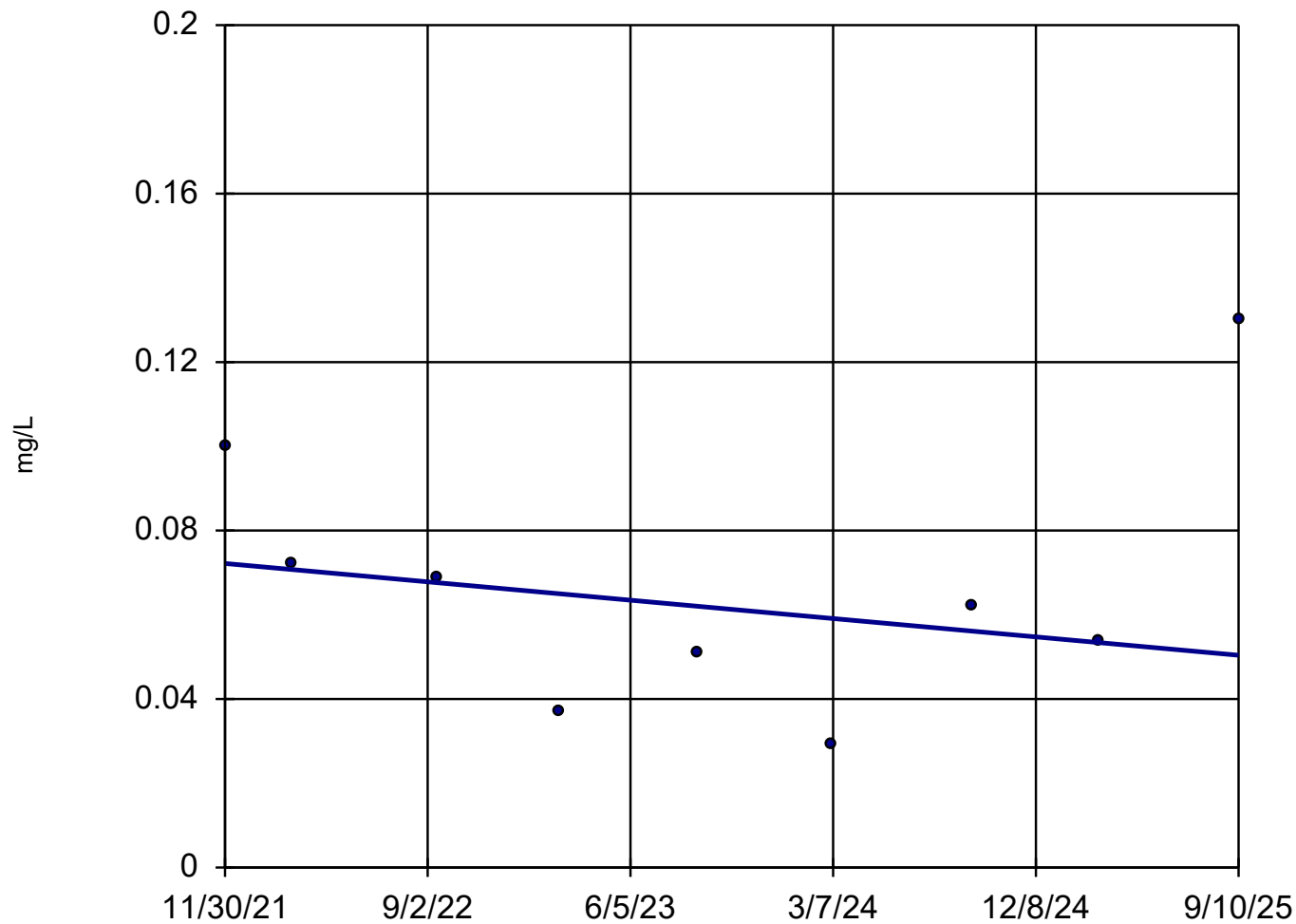
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.938, critical =
0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:16 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-4S



n = 9

Slope = -0.005768
units per year.

Mann-Kendall
statistic = -6
critical = -23

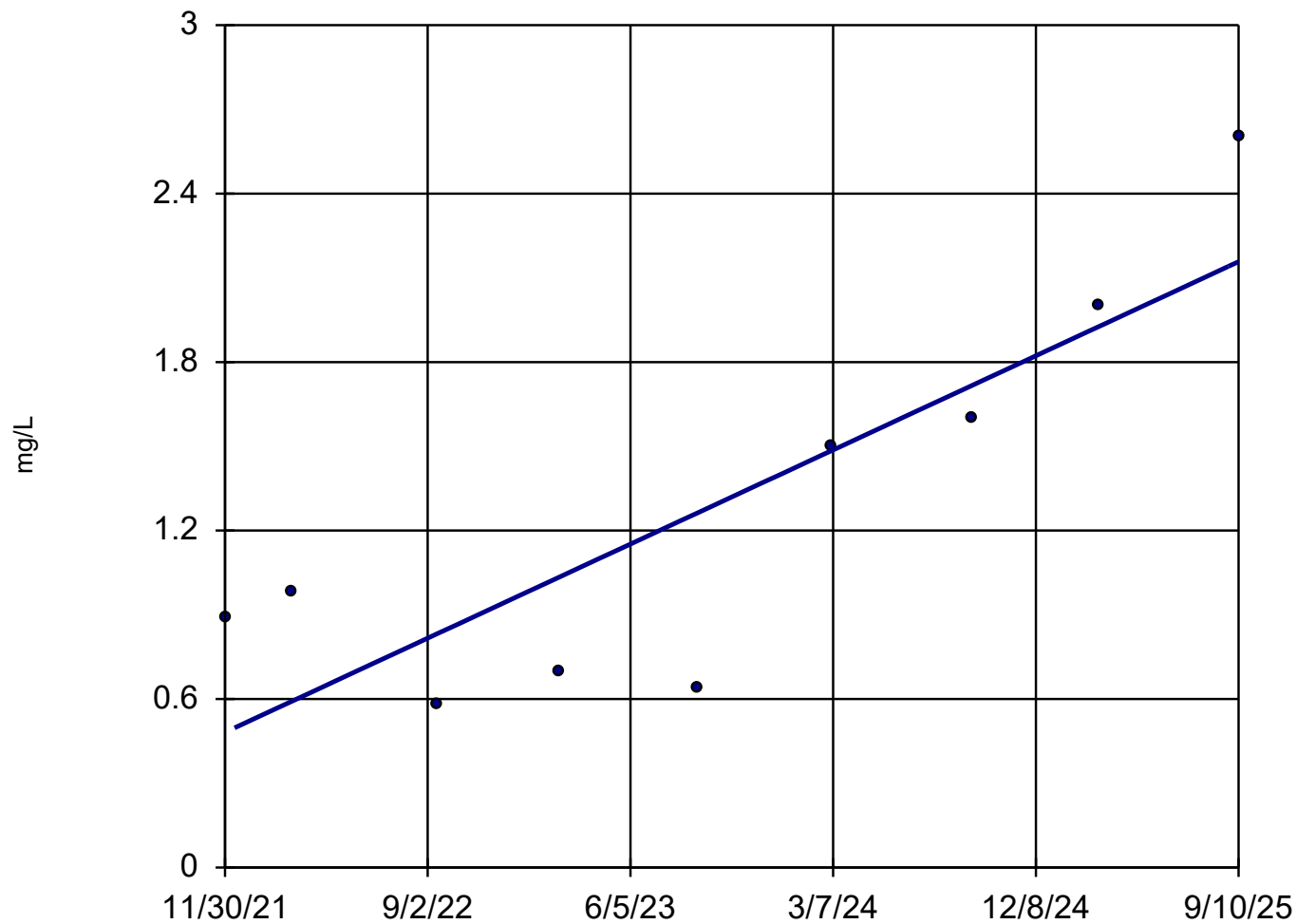
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:16 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-5D



n = 9

Slope = 0.4435
units/year.

alpha = 0.02
t = 4.212
critical = 2.517

Significant increasing trend.

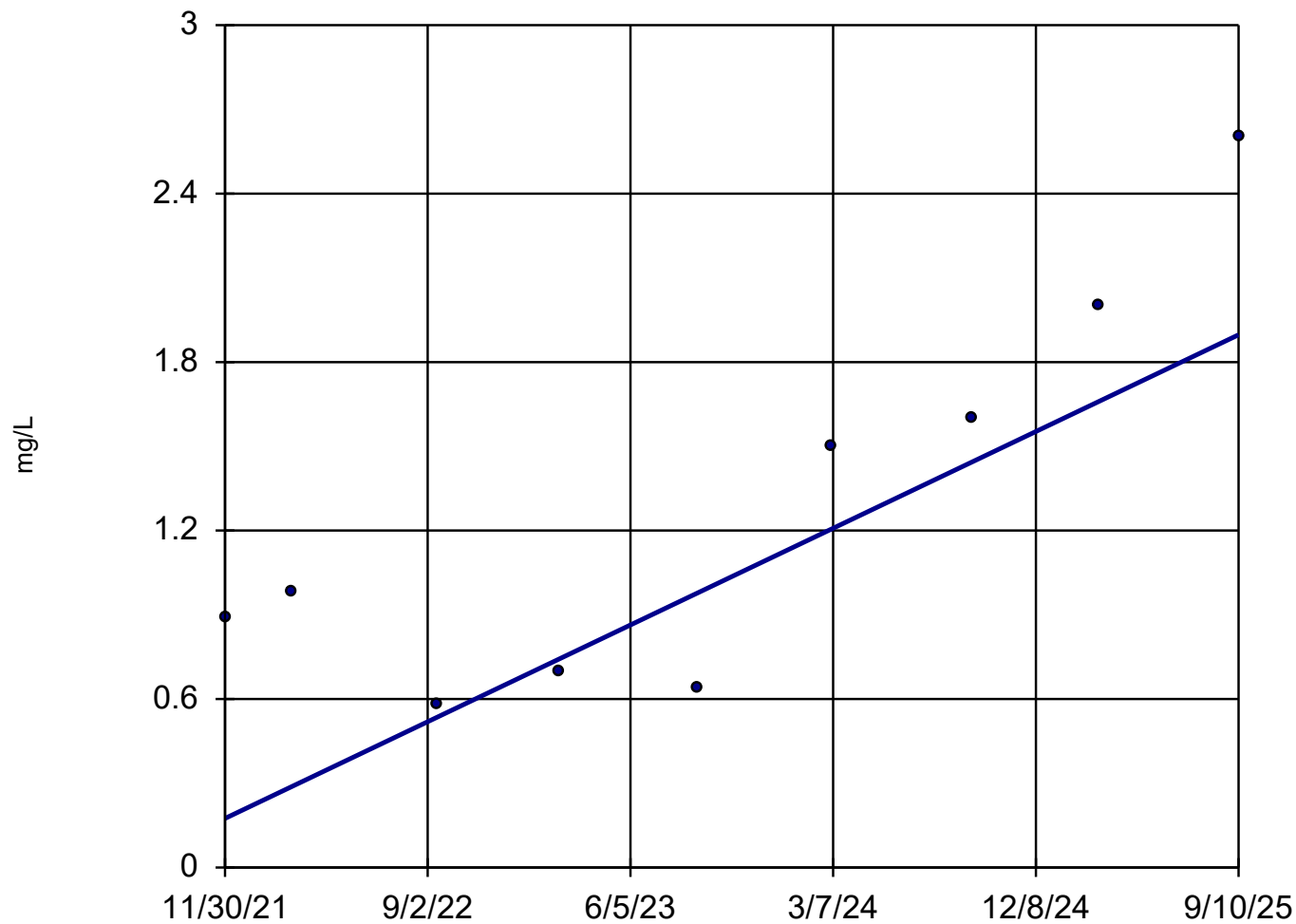
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9362, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:22 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-5D



n = 9

Slope = 0.4555
units per year.

Mann-Kendall
statistic = 22
critical = 23

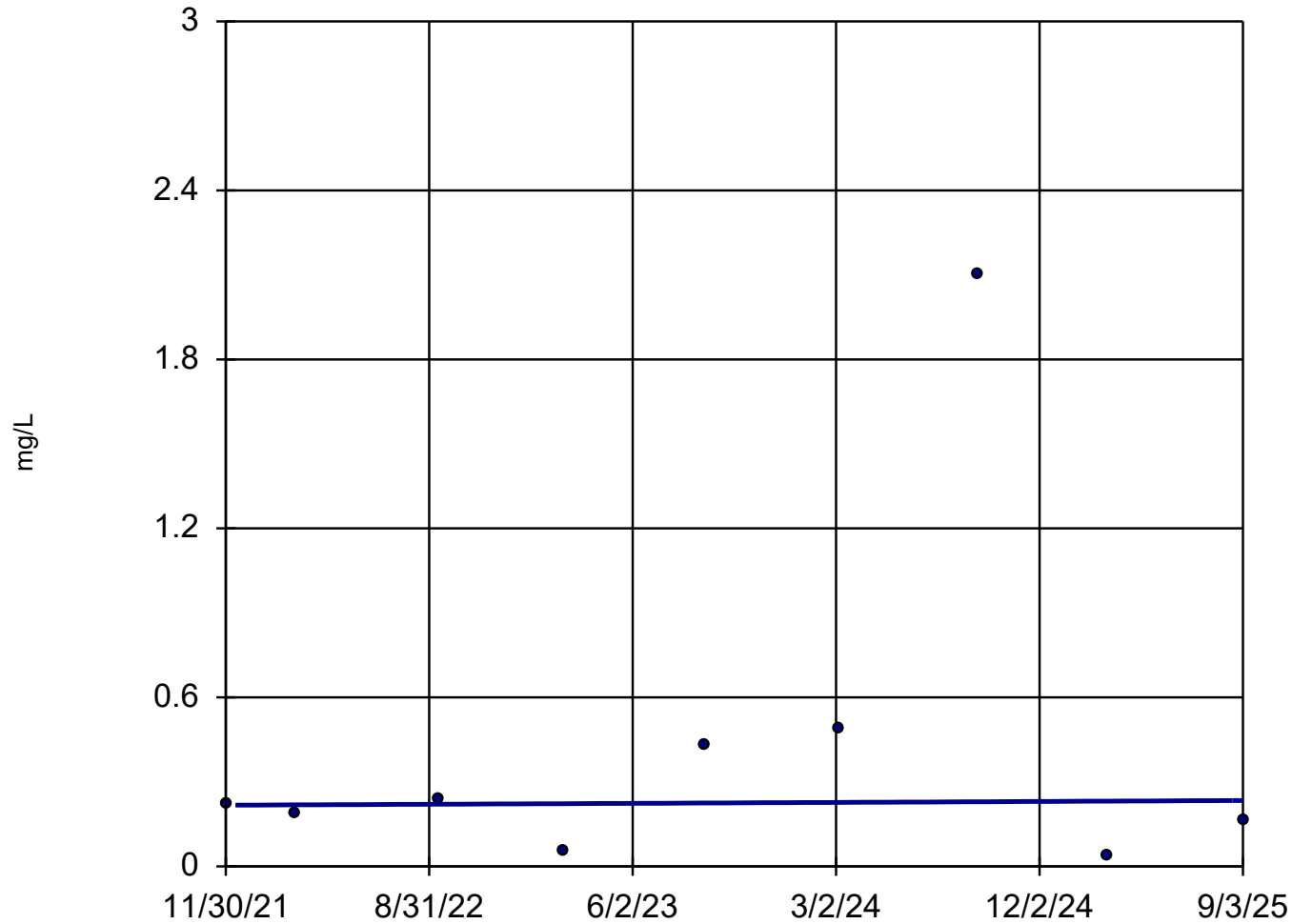
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:23 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-13D



n = 9

Slope = 0.01967
natural log units/year.

alpha = 0.02
t = 0.05807
critical = 2.517

No significant trend.

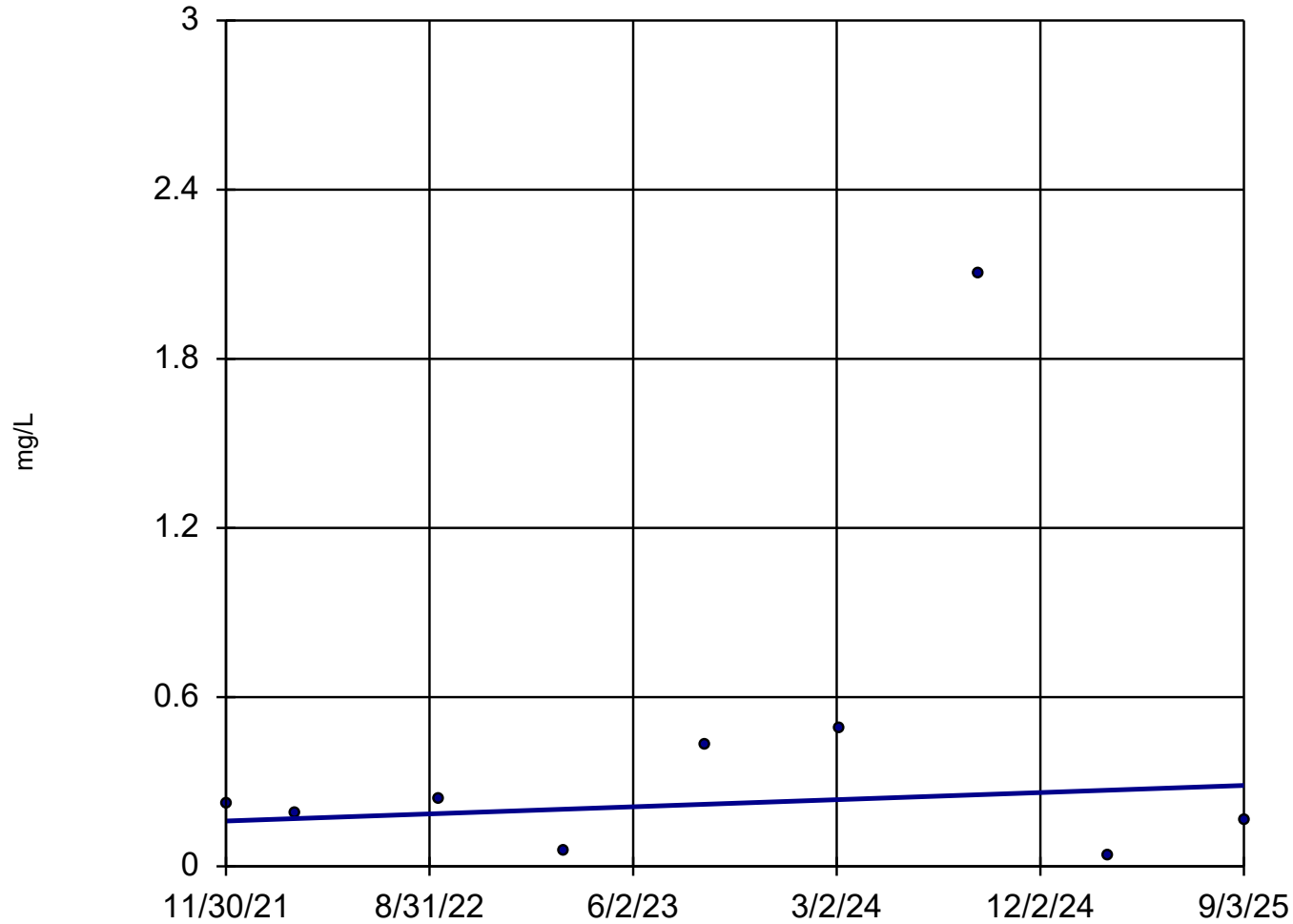
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9604 after natural
log transformation,
critical = 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:22 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-13D



n = 9

Slope = 0.03353
units per year.

Mann-Kendall
statistic = 2
critical = 23

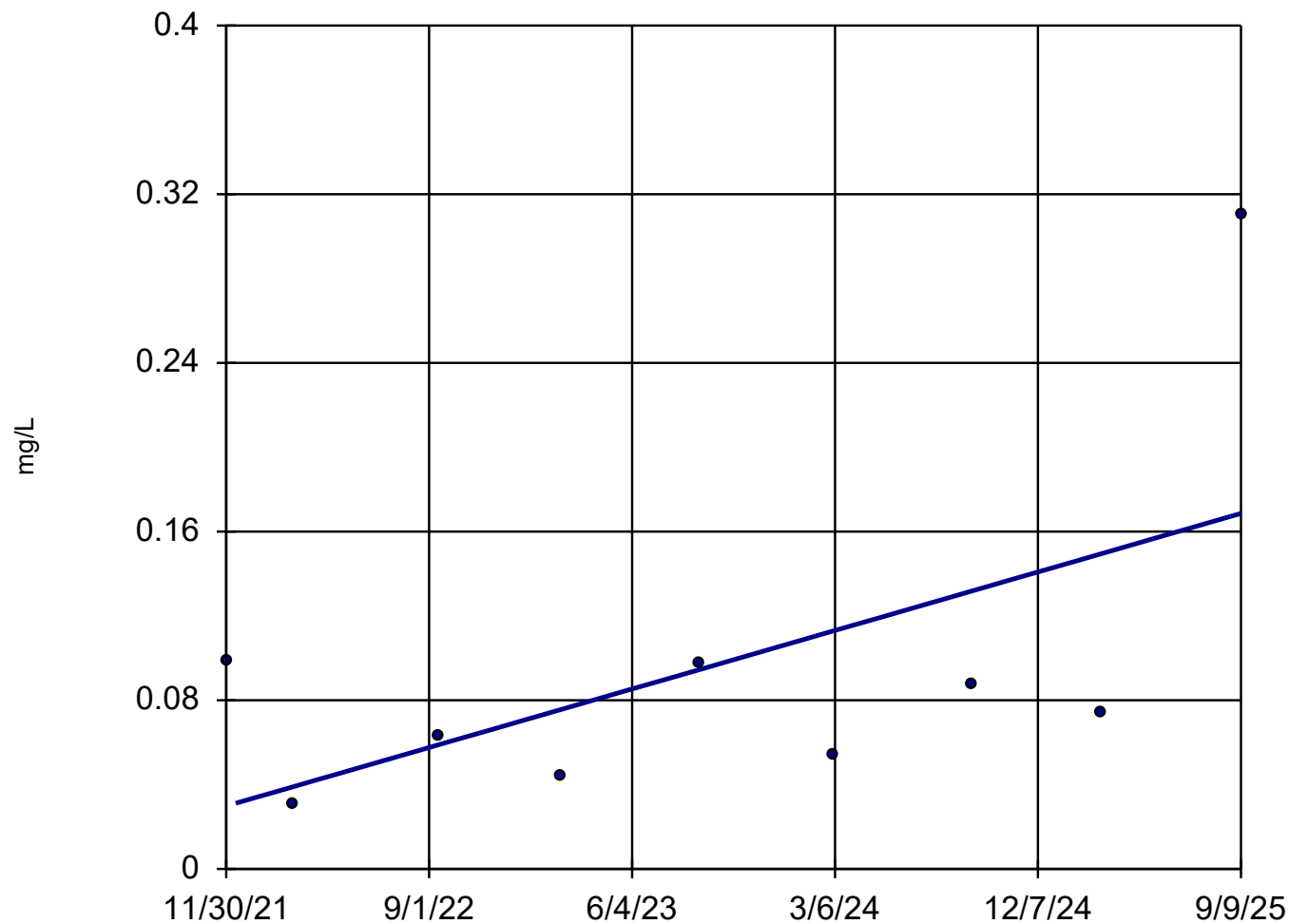
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:23 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

SW-4



n = 9

Slope = 0.03676
units/year.

alpha = 0.02
t = 1.901
critical = 2.517

No significant trend.

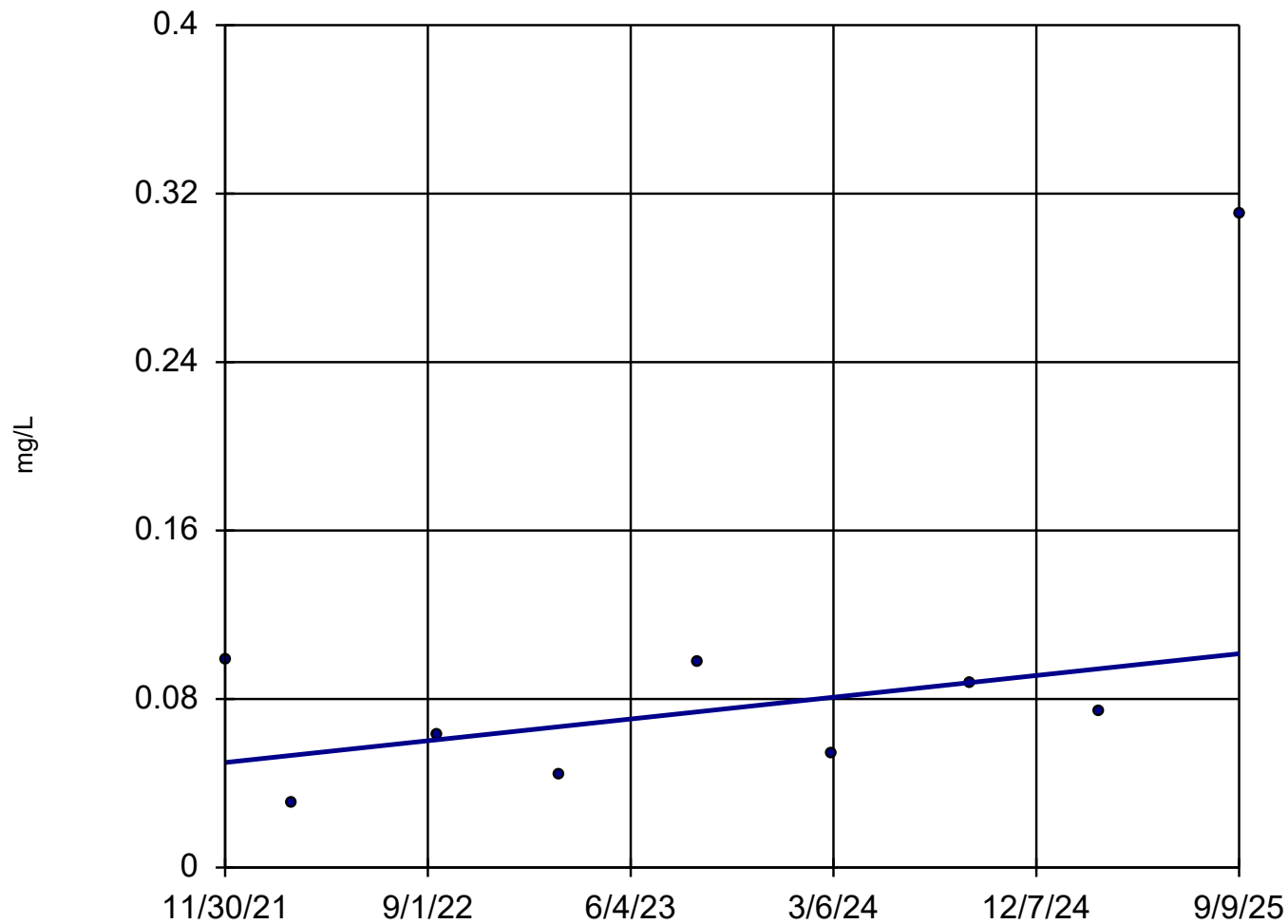
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.8968, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:06 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

SW-4



n = 9

Slope = 0.01366
units per year.

Mann-Kendall
statistic = 10
critical = 23

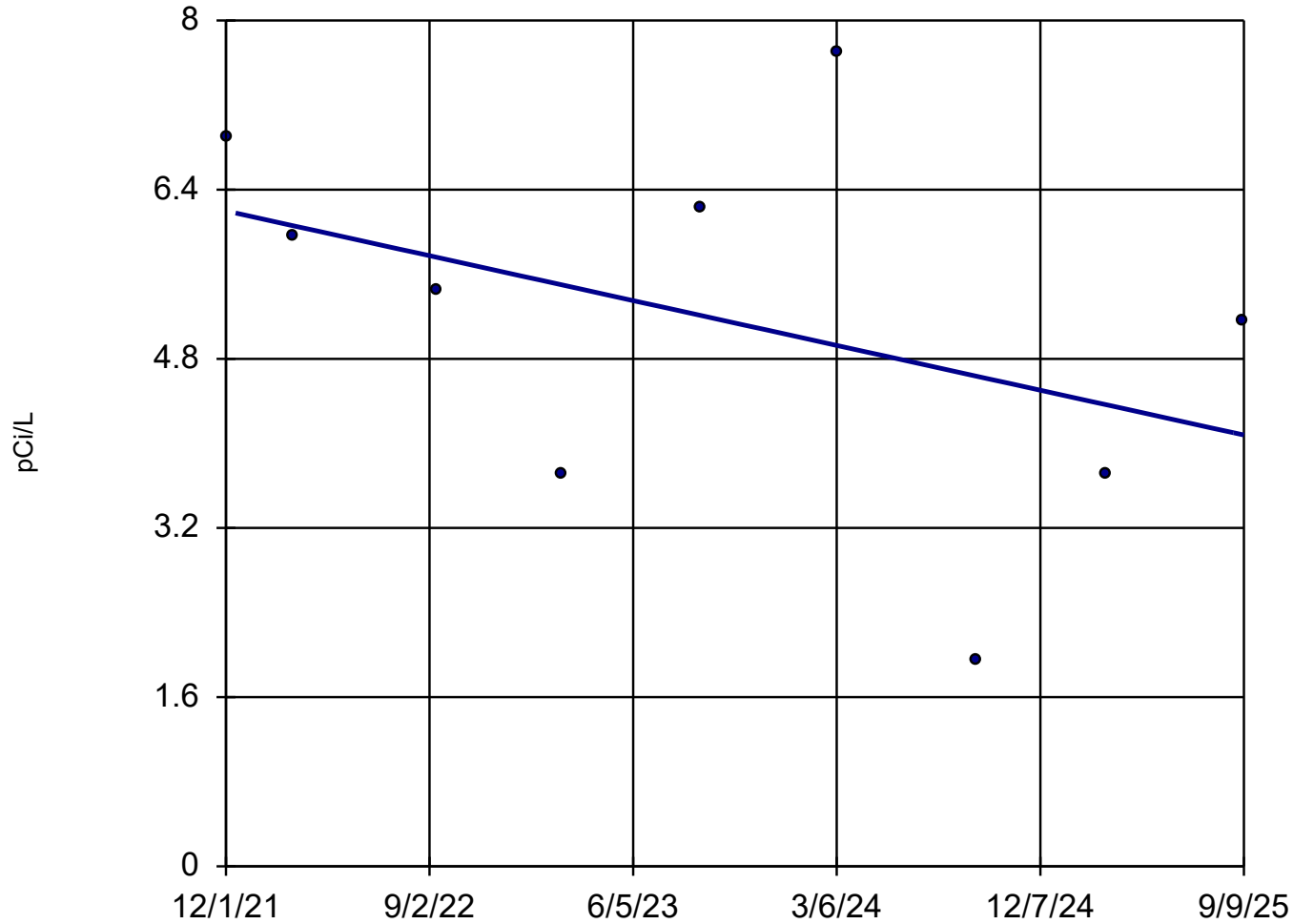
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 11/3/2025 3:07 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Linear Regression

MW-3D



n = 9

Slope = -0.5619
units/year.

alpha = 0.02
t = -1.211
critical = 2.517

No significant trend.

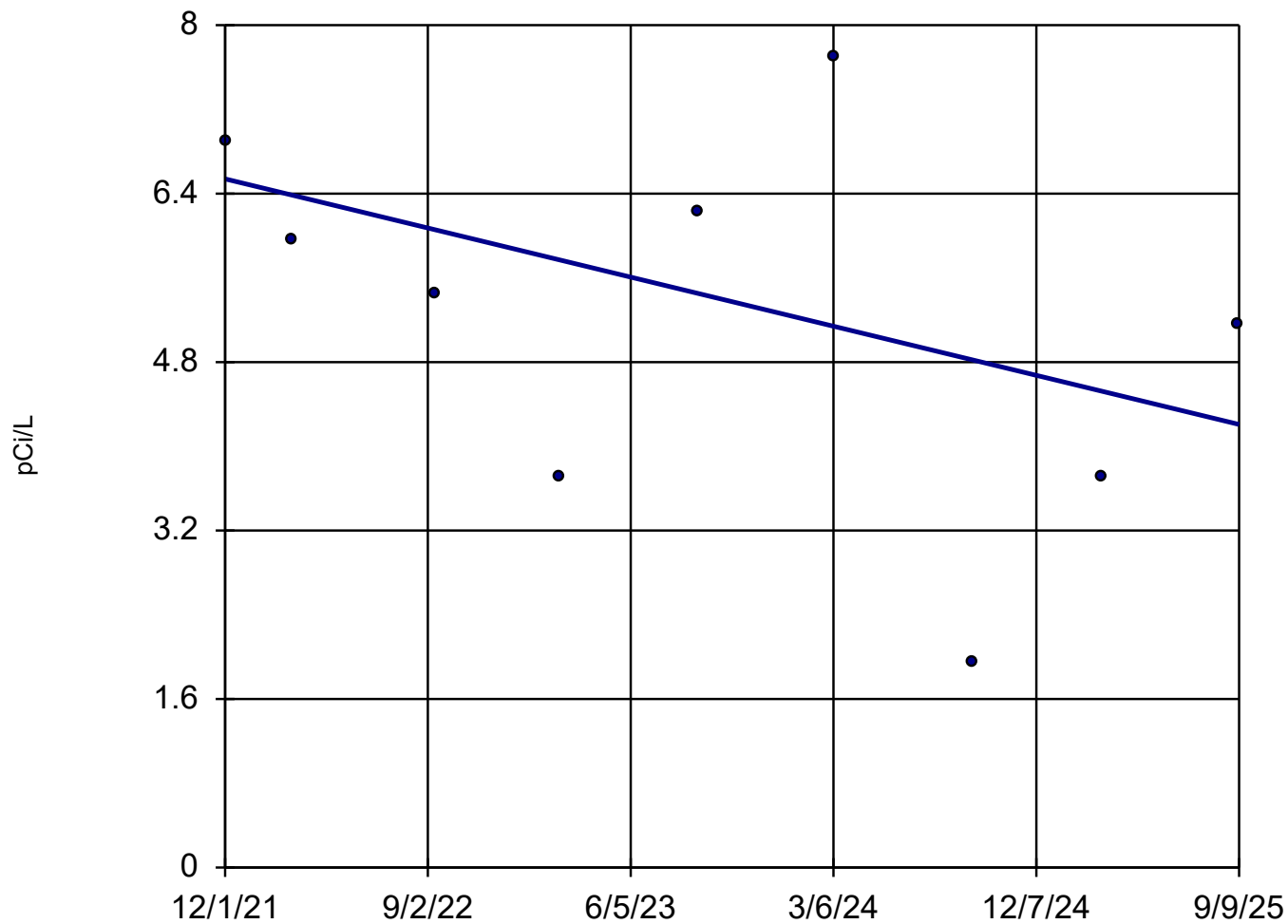
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9798, critical
= 0.764.

Constituent: Radium 226 and 228 [Combined] Analysis Run 11/3/2025 3:26 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sen's Slope Estimator

MW-3D



n = 9

Slope = -0.6177
units per year.

Mann-Kendall
statistic = -11
critical = -23

Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Radium 226 and 228 [Combined] Analysis Run 11/3/2025 3:27 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025