

**Table 2-7 Projected Average Day Demand Summary by Service Zone**

| Year    | Total System Average Day Demand (GPD) | Main Zone Demand (GPD) | Breakfast Hill Zone Demand (GPD) |
|---------|---------------------------------------|------------------------|----------------------------------|
| Current | 396,964                               | 291,583                | 105,380                          |
| 2025    | 421,963                               | 312,253                | 109,710                          |
| 2030    | 439,638                               | 325,332                | 114,306                          |
| 2035    | 457,314                               | 338,652                | 118,662                          |
| 2040    | 474,989                               | 351,492                | 123,497                          |

**Table 2-8 Projected Maximum Day Demand Summary by Service Zone**

| Year    | Total System Max-Day Demand (GPD) | Main Zone Demand (GPD) | Breakfast Hill Zone Demand (GPD) |
|---------|-----------------------------------|------------------------|----------------------------------|
| Current | 869,000                           | 637,637                | 231,963                          |
| 2025    | 924,100                           | 732,814                | 257,475                          |
| 2030    | 962,800                           | 763,511                | 268,260                          |
| 2035    | 1,001,500                         | 794,207                | 279,046                          |
| 2040    | 1,040,200                         | 829,905                | 284,831                          |

The demand projections will be used to assess the hydraulic adequacy of the distribution piping and storage facilities, the results of which are presented in [Sections 3 and 4](#) of this report.

Water service in the most northerly section of Rye is supplied by the City of Portsmouth supply. RWD is responsible for maintaining the RWD portion of this section of the distribution system and metering these customers. The Rye Beach Precinct is managed and supplied by Aquarion Water Company and is not associated with the Rye Water District. This section of Rye is supplied through Hampton and does not fall under Rye Water District jurisdiction and is not considered or evaluated as part of this report.



## 2.4 Water Quality Evaluation



The RWD serves approximately 60% of the residents of the Town of Rye (which was reported to have a population of 5,540 in 2020) and is considered a small community water system (<10,000 people). The RWD supplies drinking water to the customers from three groundwater sources with varied water quality parameters. Over the past few years, the United States Environmental Protection Agency (EPA) has undertaken significant rule making activity which affects the operation of the RWD System, including the Groundwater Rule and updates to the Lead and Copper Rule. Furthermore, the State of New Hampshire has lowered the MCL for detectable arsenic and PFAS.

RWD has operated as a chlorinated system since November 2022 using a calcium hypochlorite feed system to introduce chlorine and maintain a disinfectant residual. Other than the addition of potassium hydroxide to adjust the pH of Garland Well for corrosion control purposes, no additional water treatment has been implemented.

The purpose of the Safe Drinking Water Act (SDWA) of 1974 (amended in 1984 and 1996) is to ensure that public water systems meet national standards that protect consumers from the harm of contaminants in drinking water, by requiring EPA to regulate contaminants that present health risks, and which are known to, or are likely to, occur in public drinking water supplies. For each regulated contaminant, EPA sets a legal limit on the amount allowed in drinking water. Limits set by States must be at least as strict as those established by EPA.

Existing and future regulations identified as impacting RWD include:

- Arsenic Rule
- Ground Water Rule (GWR)
- Total Coliform Rule (TCR)
- Lead and Copper Rule (LCR)
- NH Manganese Rule
- PFAS/PFOA Regulation
- Radon Rule
- Unregulated Contaminant Monitoring Rule (UCMR IV)

The RWD conducts a regular program of source and distribution water quality sampling and testing. [Table 2-12](#) lists composite results of untreated water quality for the three wells. A compilation and summary of sampling results from both sources and distribution system are published in the yearly Consumer Confidence Report (CCR), which is distributed to all customers, as required by the United States Environmental Protection Agency (EPA).

Currently, the RWD meets all USEPA Primary Drinking Water Standards. The moderate calcium hardness in the Garland Well water tends to precipitate calcium scale immediately downstream of the KOH injection point in the pump discharge piping when the pH is increased. This carbonate deposition was observed in 2011 when the Rye Water District Staff replaced ~60 ft of water main downstream of the KOH injection point and observed again in 2022. Improvements to the Garland Well PS should help to alleviate the deposition of calcium downstream of the injection point. Both Cedar Run and Bailey Brook Wells have elevated Iron and Manganese and are not currently treated to remove these secondary contaminants before being sent to distribution.



**Table 2-9 Source Water Sample Results**

| Parameters | Units                     | MCL   | Garland Rd. Well (GP) | Bailey Brook Well (BR) | Cedar Run Well (BR) |
|------------|---------------------------|---|-----------------------|------------------------|---------------------|
| Alkalinity | mg/L as CaCO <sub>3</sub> | NA  | 64                    | 133                    | 119                 |
| Arsenic    | mg/L                      | 0.005   | <0.001                | 0.0011                 | <0.001              |
| Calcium    | mg/L                      | 500   | 68                    | -                      | -                   |
| Chloride   | mg/L                      | 250   | 80                    | 38                     | 54                  |
| Hardness   | mg/L                      | 500   | 108                   | 14.9                   | 17.3                |
| Iron       | mg/L                      | 0.3*  | <0.05                 | 0.24                   | 3.64                |
| Manganese  | mg/L                      | 0.050*<br>0.1/0.3**                             | <0.001                | 0.084                  | 0.301               |
| pH         |                           | 6.5 - 8.5                                       | 6.6                   | 7.6                    | 7.1                 |
| Radon      | pCi/L                     | Proposed as 300 pCi/L MCL and 4000 pCi/L AMCL** | 1408                  | 465                    | 660                 |
| Sodium     | mg/L                      | 100   | 36                    | 91.3                   | 127                 |
| Sulfate    | mg/L                      | 250   | 19                    | 55.3                   | 124                 |

\*EPA Secondary Maximum Contaminant Level

\*\* Proposed NH Health Advisory Limit/ MCL

### 2.4.1 National Primary Drinking Water Regulations

National Primary Drinking Water Regulations (NPDWR or primary standards) are legally enforceable contaminant concentration limits and treatment techniques that apply to public water systems. The concentration limits for the primary contaminants are quantified with a maximum contaminant level (MCL) because either chronic or acute exposure to primary contaminants can compromise public health. The EPA is required to review and, if appropriate, revise existing National Primary Drinking Water Rules every six years with the last review occurring in 2022. A complete listing of the national primary drinking water standards may be found on the EPA website at <http://water.epa.gov/drink/contaminants>.

Currently, the primary contaminant standards are divided into six categories: Microorganisms, Disinfectants, Disinfection Byproducts, Inorganic Chemicals, Organic Chemicals, and Radionuclides. Each category is comprised of a specific group of contaminants, each regulated by rules developed to effectively control their concentrations in drinking water. The rules associated with the six NPDWR categories are outlined below:

- Microorganisms
  - Surface Water Treatment Rule



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29 HAZEN DRIVE  
CONCORD NH 03301  
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## ANALYTICAL RESULTS

Batch ID/Form: B309377 - CHEMICAL MONITORING

Submitting Lab ID: 3000

PWS ID/Name: 2041010 - RYE WATER DIST - RYE

Report Date: 01/09/2024

Collector: ARIK JONES

Phone: 603-817-1344

Collect Date: 12/11/2023 09:40:00

Lab Sample ID: B309377001

Matrix: WATER

Received: 12/11/2023 14:39:00

Sample Location ID: 501

Sample Type: ROUTINE-SAMPLE

Compliance Period: Q4 2023

Description: DEP TAP/PUMPHOUSE /AFTER TREATMENT/001

Receipt Temp.: 12 C

| Analyte                                | Results | Units   | RDL | DF | Prepared Date | Analysis Date          | Analyte Code | Analyst | Qual. |
|--|---------|---|-----|----|---------------|------------------------|--------------|---------|-------|
| Analytical Method: 10-107-04-1-C       |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| NITRATE AS N                           | 3.0     | MG/L  | .05 |    | 00:00:00      | 12/12/2023<br>14:06:00 | 1810         |         |       |
| NITRATE PLUS NITRITE AS N              | 3.0     | MG/L  | .05 |    | 00:00:00      | 12/12/2023<br>14:06:00 | 1820         |         |       |
| NITRITE AS N                           | ND      | MG/L  | .05 |    | 00:00:00      | 12/12/2023<br>14:06:00 | 1840         |         |       |
| Analytical Method: 200.8               |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| URANIUM (MASS)                         | ND      | UG/L  | 1   |    | 00:00:00      | 12/14/2023<br>14:21:00 | 7440-61-1    |         |       |
| Analytical Method: 504.1               |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| 1,2-DIBROMO-3-<br>CHLOROPROPANE (DBCP) | ND      | UG/L  | .02 |    | 00:00:00      | 12/21/2023<br>00:43:00 | 96-12-8      |         |       |
| ETHYLENE DIBROMIDE (EDB)               | ND      | UG/L  | .02 |    | 00:00:00      | 12/21/2023<br>00:43:00 | 106-93-4     |         |       |
| Analytical Method: 505                 |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| CHLORDANE (TECH.)                      | ND      | UG/L  | .2  |    | 00:00:00      | 12/21/2023<br>00:43:00 | 12789-03-6   |         |       |
| TOXAPHENE (CHLORINATED<br>CAMPHENE)    | ND      | UG/L  | 3   |    | 00:00:00      | 12/21/2023<br>00:43:00 | 8001-35-2    |         |       |
| Analytical Method: 524.2               |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| 1,1,1,2-<br>TETRACHLOROETHANE          | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 630-20-6     |         |       |
| 1,1,1-TRICHLOROETHANE                  | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 71-55-6      |         |       |
| 1,1,2,2-<br>TETRACHLOROETHANE          | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 79-34-5      |         |       |
| 1,1,2-TRICHLOROETHANE                  | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 79-00-5      |         |       |
| 1,1-DICHLOROETHANE                     | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-34-3      |         |       |
| 1,1-DICHLOROETHYLENE<br>(DCE)          | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-35-4      |         |       |

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|--------------------------------|---------|---|-----|----|---------------|------------------------|--------------|---------|-------|
| Analytical Method: 524.2       |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| 1,1-DICHLOROPROPENE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 563-58-6     |         |       |
| 1,2,3-TRICHLOROBENZENE         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 87-61-6      |         |       |
| 1,2,3-TRICHLOROPROPANE         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 96-18-4      |         |       |
| 1,2,4-TRICHLOROBENZENE         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 120-82-1     |         |       |
| 1,2,4-TRIMETHYLBENZENE         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 95-63-6      |         |       |
| 1,2-DICHLOROBENZENE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 95-50-1      |         |       |
| 1,2-DICHLOROETHANE             | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 107-06-2     |         |       |
| 1,2-DICHLOROPROPANE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 78-87-5      |         |       |
| 1,3,5-TRICHLOROBENZENE         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-70-3     |         |       |
| 1,3,5-TRIMETHYLBENZENE         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-67-8     |         |       |
| 1,3-DICHLOROBENZENE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 541-73-1     |         |       |
| 1,3-DICHLOROPROPANE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 142-28-9     |         |       |
| 1,4-DICHLOROBENZENE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 106-46-7     |         |       |
| 2,2-DICHLOROPROPANE            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 594-20-7     |         |       |
| 2-CHLOROTOLUENE                | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 95-49-8      |         |       |
| 2-HEXANONE                     | ND      | UG/L  | 10  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 591-78-6     |         |       |
| 4-CHLOROTOLUENE                | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 106-43-4     |         |       |
| 4-METHYL-2-PENTANONE<br>(MIBK) | ND      | UG/L  | 10  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-10-1     |         |       |
| ACETONE                        | ND      | UG/L  | 10  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 67-64-1      |         |       |

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|--------------------------------------|---------|---|-----|----|---------------|------------------------|--------------|---------|-------|
| Analytical Method: 524.2             |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |              |         |       |
| BENZENE                              | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 71-43-2      |         |       |
| BROMOBENZENE                         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-86-1     |         |       |
| BROMOCHLOROMETHANE                   | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 74-97-5      |         |       |
| BROMODICHLOROMETHANE                 | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-27-4      |         |       |
| BROMOFORM                            | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-25-2      |         |       |
| BROMOMETHANE (METHYL BROMIDE)        | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 74-83-9      |         |       |
| CARBON DISULFIDE                     | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-15-0      |         |       |
| CARBON TETRACHLORIDE                 | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 56-23-5      |         |       |
| CHLOROBENZENE                        | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-90-7     |         |       |
| CHLOROETHANE                         | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-00-3      |         |       |
| CHLOROFORM                           | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 67-66-3      |         |       |
| CHLOROMETHANE (METHYL CHLORIDE)      | ND      | UG/L  | 2   |    | 00:00:00      | 12/15/2023<br>11:25:00 | 74-87-3      |         |       |
| CIS-1,2-DICHLOROETHYLENE             | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 156-59-2     |         |       |
| CIS-1,3-DICHLOROPROPENE              | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 10061-01-5   |         |       |
| DI-ISOPROPYLETHER (DIPE)             | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-20-3     |         |       |
| DIBROMOCHLOROMETHANE                 | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 124-48-1     |         |       |
| DIBROMOMETHANE                       | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 74-95-3      |         |       |
| DICHLORODIFLUOROMETHANE              | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-71-8      |         |       |
| DICHLOROMETHANE (METHYLENE CHLORIDE) | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-09-2      |         |       |

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|-----------------------------------|---------|---|-----|----|---------------|------------------------|---------------------|---------|-------|
| Analytical Method: 524.2          |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |               |                        |                     |         |       |
| DIETHYL ETHER                     | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 60-29-7             |         |       |
| ETHYL - T- BUTYL ETHER<br>(ETBE)  | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 637-92-3            |         |       |
| ETHYLBENZENE                      | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 100-41-4            |         |       |
| HEXACHLOROBUTADIENE               | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 87-68-3             |         |       |
| ISOPROPYLBENZENE                  | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 98-82-8             |         |       |
| M/P-XYLENE                        | ND      | UG/L  | 1   |    | 00:00:00      | 12/15/2023<br>11:25:00 | 108-38-3/106-<br>42 |         |       |
| METHYL ETHYL KETONE<br>(MEK)      | ND      | UG/L  | 10  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 78-93-3             |         |       |
| METHYL TERT-BUTYL ETHER<br>(MTBE) | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 1634-04-4           |         |       |
| N-BUTYLBENZENE                    | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 104-51-8            |         |       |
| N-PROPYLBENZENE                   | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 103-65-1            |         |       |
| NAPHTHALENE                       | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 91-20-3             |         |       |
| O-XYLENE                          | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 95-47-6             |         |       |
| P-ISOPROPYLTOLUENE                | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 99-87-6             |         |       |
| SEC-BUTYLBENZENE                  | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 135-98-8            |         |       |
| STYRENE                           | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 100-42-5            |         |       |
| TERT-AMYL METHYL ETHER<br>(TAME)  | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 994-05-8            |         |       |
| TERT-BUTYL ALCOHOL (TBA)          | ND      | UG/L  | 10  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 75-65-0             |         |       |
| TERT-BUTYLBENZENE                 | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 98-06-6             |         |       |
| TETRACHLOROETHYLENE               | ND      | UG/L  | .5  |    | 00:00:00      | 12/15/2023<br>11:25:00 | 127-18-4            |         |       |

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## ANALYTICAL RESULTS

Batch ID/Form: B309377 - CHEMICAL MONITORING

Submitting Lab ID: 3000

PWS ID/Name: 2041010 - RYE WATER DIST - RYE

Report Date: 01/09/2024

Collector: ARIK JONES

Phone: 603-817-1344

Collect Date: 12/11/2023 09:40:00

Lab Sample ID: B309377001 Matrix: WATER Received: 12/11/2023 14:39:00  
Sample Location ID: 501 Sample Type: ROUTINE-SAMPLE Compliance Period: Q4 2023  
Description: DEP TAP/PUMPHOUSE /AFTER TREATMENT/001 Receipt Temp.: 12 C

| Analyte                                | Results | Units   | RDL | DF | Prepared Date          | Analysis Date          | Analyte Code | Analyst | Qual. |
|--|---------|---|-----|----|------------------------|------------------------|--------------|---------|-------|
| Analytical Method: 524.2               |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |                        |                        |              |         |       |
| TETRAHYDROFURAN (THF)                  | ND      | UG/L  | 10  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 109-99-9     |         |       |
| TOLUENE                                | ND      | UG/L  | .5  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 108-88-3     |         |       |
| TRANS-1,2-DICHLOROETHYLENE             | ND      | UG/L  | .5  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 156-60-5     |         |       |
| TRANS-1,3-DICHLOROPROPENE              | ND      | UG/L  | .5  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 10061-02-6   |         |       |
| TRICHLOROETHYLENE                      | ND      | UG/L  | .5  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 79-01-6      |         |       |
| TRICHLOROFLUOROMETHAN E (CFC-11)       | ND      | UG/L  | .5  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 75-69-4      |         |       |
| VINYL CHLORIDE                         | ND      | UG/L  | .5  |    | 00:00:00               | 12/15/2023<br>11:25:00 | 75-01-4      |         |       |
| XYLENES, TOTAL                         | ND      | UG/L  | 1.5 |    | 00:00:00               | 12/15/2023<br>11:25:00 | 1330-20-7    |         |       |
| Analytical Method: 525.2               |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |                        |                        |              |         |       |
| 2,2',3',4,6-PENTACHLOROBIPHENYL        | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 60233-25-2   |         |       |
| 2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL   | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 52663-71-5   |         |       |
| 2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 40186-71-8   |         |       |
| 2,2',4,4',5,6'-HEXACHLOROBIPHENYL      | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 60145-22-4   |         |       |
| 2,2',4,4'-TETRACHLOROBIPHENYL          | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 2437-79-8    |         |       |
| 2,3-DICHLOROBIPHENYL                   | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 16605-91-7   |         |       |
| 2,4,5-TRICHLOROBIPHENYL                | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 15862-07-4   |         |       |
| 2-CHLOROBIPHENYL                       | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 2051-60-7    |         |       |
| 2-METHYLNAPHTHALENE                    | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 91-57-6      |         |       |
| 4,4-DDD                                | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 72-54-8      |         |       |

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# NH PUBLIC HEALTH LABORATORIES, WATER ANALYSIS LABORATORY

29 HAZEN DRIVE  
CONCORD NH 03301  
Phone: (603) 271-3233  
Fax:

## ANALYTICAL RESULTS

Batch ID/Form: B309377 - CHEMICAL MONITORING

Submitting Lab ID: 3000

PWS ID/Name: 2041010 - RYE WATER DIST - RYE

Report Date: 01/09/2024

Collector: ARIK JONES

Phone: 603-817-1344

Collect Date: 12/11/2023 09:40:00

Lab Sample ID: B309377001

Matrix: WATER

Received: 12/11/2023 14:39:00

Sample Location ID: 501

Sample Type: ROUTINE-SAMPLE

Compliance Period: Q4 2023

Description: DEP TAP/PUMPHOUSE /AFTER TREATMENT/001

Receipt Temp.: 12 C

| Analyte                        | Results | Units   | RDL | DF | Prepared Date          | Analysis Date          | Analyte Code | Analyst | Qual. |
|--------------------------------|---------|---|-----|----|------------------------|------------------------|--------------|---------|-------|
| Analytical Method: 525.2       |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |                        |                        |              |         |       |
| 4,4-DDE                        | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 72-55-9      |         |       |
| 4,4-DDT                        | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 50-29-3      |         |       |
| ACENAPHTHENE                   | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 83-32-9      |         |       |
| ACENAPHTHYLENE                 | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 208-96-8     |         |       |
| ALACHLOR                       | ND      | UG/L  | .2  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 15972-60-8   |         |       |
| ALDRIN                         | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 309-00-2     |         |       |
| ALPHA-CHLORDANE                | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 5103-71-9    |         |       |
| ANTHRACENE                     | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 120-12-7     |         |       |
| ATRAZINE                       | ND      | UG/L  | .2  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 1912-24-9    |         |       |
| BENZO(A)ANTHRACENE             | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 56-55-3      |         |       |
| BENZO(A)PYRENE                 | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 50-32-8      |         |       |
| BENZO(B)FLUORANTHENE           | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 205-99-2     |         |       |
| BENZO(G,H,I)PERYLENE           | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 191-24-2     |         |       |
| BENZO(K)FLUORANTHENE           | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 207-08-9     |         |       |
| BENZYL BUTYL PHTHALATE         | ND      | UG/L  | 1   |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 85-68-7      |         |       |
| BIS(2-ETHYLHEXYL) ADIPATE      | ND      | UG/L  | 1   |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 103-23-1     |         |       |
| BIS(2-ETHYLHEXYL)<br>PHTHALATE | ND      | UG/L  | 1   |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 117-81-7     |         |       |
| BUTACHLOR                      | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 23184-66-9   |         |       |
| CHRYSENE                       | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 218-01-9     |         |       |

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29 HAZEN DRIVE  
CONCORD NH 03301  
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Fax:

## ANALYTICAL RESULTS

Batch ID/Form: B309377 - CHEMICAL MONITORING

Submitting Lab ID: 3000

PWS ID/Name: 2041010 - RYE WATER DIST - RYE

Report Date: 01/09/2024

Collector: ARIK JONES

Phone: 603-817-1344

Collect Date: 12/11/2023 09:40:00

Lab Sample ID: B309377001 Matrix: WATER Received: 12/11/2023 14:39:00  
Sample Location ID: 501 Sample Type: ROUTINE-SAMPLE Compliance Period: Q4 2023  
Description: DEP TAP/PUMPHOUSE /AFTER TREATMENT/001 Receipt Temp.: 12 C

| Analyte                       | Results | Units   | RDL | DF | Prepared Date          | Analysis Date          | Analyte Code | Analyst | Qual. |
|-------------------------------|---------|---|-----|----|------------------------|------------------------|--------------|---------|-------|
| Analytical Method: 525.2      |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |                        |                        |              |         |       |
| DI-N-BUTYL PHTHALATE          | ND      | UG/L  | 1   |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 84-74-2      |         |       |
| DIBENZO(A,H)ANTHRACENE        | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 53-70-3      |         |       |
| DIELDRIN                      | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 60-57-1      |         |       |
| DIETHYL PHTHALATE             | ND      | UG/L  | 1   |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 84-66-2      |         |       |
| DIMETHYL PHTHALATE            | ND      | UG/L  | 1   |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 131-11-3     |         |       |
| ENDRIN                        | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 72-20-8      |         |       |
| ENDRIN ALDEHYDE               | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 7421-93-4    |         |       |
| FLUORANTHENE                  | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 206-44-0     |         |       |
| FLUORENE                      | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 86-73-7      |         |       |
| GAMMA-BHC (LINDANE)           | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 58-89-9      |         |       |
| GAMMA-CHLORDANE               | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 5103-74-2    |         |       |
| HEPTACHLOR                    | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 76-44-8      |         |       |
| HEPTACHLOR EPOXIDE            | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 1024-57-3    |         |       |
| HEXACHLOROBENZENE             | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 118-74-1     |         |       |
| HEXACHLOROCYCLOPENTADI<br>ENE | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 77-47-4      |         |       |
| INDENO(1,2,3-CD)PYRENE        | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 193-39-5     |         |       |
| ISOPHORONE                    | ND      | UG/L  | .2  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 78-59-1      |         |       |
| METHOXYCHLOR                  | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 72-43-5      |         |       |
| METOLACHLOR                   | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 51218-45-2   |         |       |

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# NH PUBLIC HEALTH LABORATORIES, WATER ANALYSIS LABORATORY

29 HAZEN DRIVE  
CONCORD NH 03301  
Phone: (603) 271-3233  
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## ANALYTICAL RESULTS

Batch ID/Form: B309377 - CHEMICAL MONITORING

Submitting Lab ID: 3000

PWS ID/Name: 2041010 - RYE WATER DIST - RYE

Report Date: 01/09/2024

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Phone: 603-817-1344

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Description: DEP TAP/PUMPHOUSE /AFTER TREATMENT/001

Receipt Temp.: 12 C

| Analyte                  | Results | Units   | RDL | DF | Prepared Date          | Analysis Date          | Analyte Code | Analyst | Qual. |
|--------------------------|---------|---|-----|----|------------------------|------------------------|--------------|---------|-------|
| Analytical Method: 525.2 |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |                        |                        |              |         |       |
| METRIBUZIN               | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 21087-64-9   |         |       |
| NAPHTHALENE              | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 91-20-3      |         |       |
| PENTACHLOROPHENOL        | ND      | UG/L  | .4  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 87-86-5      |         |       |
| PHENANTHRENE             | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 85-01-8      |         |       |
| PROPACHLOR               | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 1918-16-7    |         |       |
| PYRENE                   | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 129-00-0     |         |       |
| SIMAZINE                 | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 122-34-9     |         |       |
| TRANS-NONACHLOR          | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 39765-80-5   |         |       |
| TRIFLURALIN              | ND      | UG/L  | .1  |    | 12/22/2023<br>13:44:00 | 12/27/2023<br>00:01:00 | 1582-09-8    |         |       |
| Analytical Method: 531.2 |         | Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES |     |    |                        |                        |              |         |       |
| 3-HYDROXYCARBOFURAN      | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 16655-82-6   |         |       |
| ALDICARB                 | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 116-06-3     |         |       |
| ALDICARB SULFONE         | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 1646-88-4    |         |       |
| ALDICARB SULFOXIDE       | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 1646-87-3    |         |       |
| CARBARYL                 | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 63-25-2      |         |       |
| CARBOFURAN               | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 1563-66-2    |         |       |
| METHOMYL                 | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 16752-77-5   |         |       |
| OXAMYL (VYDATE)          | ND      | UG/L  | 1   |    | 00:00:00               | 12/26/2023<br>20:40:00 | 23135-22-0   |         |       |

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NH PUBLIC HEALTH LABORATORIES, WATER ANALYSIS  
LABORATORY

29 HAZEN DRIVE  
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| Analyte  | Results | Units | RDL | DF | Prepared Date          | Analysis Date          | Analyte Code | Analyst | Qual. |
|--|---------|-------|-----|----|------------------------|------------------------|--------------|---------|-------|
| <b>Analytical Method: 547</b>  |         |       |     |    |                        |                        |              |         |       |
| <b>Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES</b> |         |       |     |    |                        |                        |              |         |       |
| GLYPHOSATE   | ND      | UG/L  | 25  |    | 00:00:00               | 12/20/2023<br>19:25:00 | 1071-83-6    |         |       |
| <b>Analytical Method: 549.2</b>  |         |       |     |    |                        |                        |              |         |       |
| <b>Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES</b> |         |       |     |    |                        |                        |              |         |       |
| DIQUAT   | ND      | UG/L  | 2.5 |    | 12/15/2023<br>14:02:55 | 12/15/2023<br>15:54:00 | 2764-72-9    |         |       |
| <b>Analytical Method: 555</b>  |         |       |     |    |                        |                        |              |         |       |
| <b>Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES</b> |         |       |     |    |                        |                        |              |         |       |
| 2,4,5-TP (SILVEX)  | ND      | UG/L  | 1   |    | 00:00:00               | 12/21/2023<br>16:27:00 | 93-72-1      |         |       |
| 2,4-D  | ND      | UG/L  | 1   |    | 00:00:00               | 12/21/2023<br>16:27:00 | 94-75-7      |         |       |
| ACIFLUORFEN  | ND      | UG/L  | 1   |    | 00:00:00               | 12/21/2023<br>16:27:00 | 50594-66-6   |         |       |
| DICAMBA  | ND      | UG/L  | 1   |    | 00:00:00               | 12/21/2023<br>16:27:00 | 1918-00-9    |         |       |
| DINOSEB (2-SEC-BUTYL-4 6-DINITROPHENOL DNBP)                             | ND      | UG/L  | .5  |    | 00:00:00               | 12/21/2023<br>16:27:00 | 88-85-7      |         |       |
| PICLORAM   | ND      | UG/L  | 1   |    | 00:00:00               | 12/21/2023<br>16:27:00 | 1918-02-1    |         |       |
| <b>Analytical Method: 900.0</b>  |         |       |     |    |                        |                        |              |         |       |
| <b>Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES</b> |         |       |     |    |                        |                        |              |         |       |
| GROSS ALPHA  | ND      | PCI/L | 2   |    | 00:00:00               | 01/03/2024<br>05:15:00 | 2830         |         |       |
| COMPLIANCE GROSS ALPHA   | ND      | PCI/L | 2   |    |                        |                        |              |         |       |
| <b>Analytical Method: BASED ON EPA 200.8</b>                             |         |       |     |    |                        |                        |              |         |       |
| <b>Analyzing Lab: 3000-NEW HAMPSHIRE DHHS PUBLIC HEALTH LABORATORIES</b> |         |       |     |    |                        |                        |              |         |       |
| URANIUM  | ND      | PCI/L | 1   |    | 00:00:00               | 12/14/2023<br>14:21:00 | 3035         |         |       |

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