



INDEPENDENT TESTING LAB

830 ROBINWOOD COURT, TRAVERSE CITY, MI 49686

PH: 231-929-0905

FAX: 231-929-0894

www.gtanalytical.com

Company: HRF EXPLORATION & PRODUCTION
Name:
ClientProj: 13.052
GTA ProjNo: 062323-7

Site Addr: SOUTH RUST 10C
Sampled By: KWB/HURON
Date Rec: 6/23/2023
Time Rec: 12:45 PM

| Sample No. | Sample ID | Date Sampled | Time Sampled | Sample Matrix |
|------------|-----------|--------------|--------------|---------------|
| 1 | MW-1 | 6/21/2023 | | WATER |
| 2 | MW-2 | 6/21/2023 | | WATER |
| 3 | MW-3 | 6/21/2023 | | WATER |
| 4 | MW-4 | 6/21/2023 | | WATER |
| 5 | MW-5 | 6/21/2023 | | WATER |
| 6 | MW-6 | 6/21/2023 | | WATER |
| 7 | MW-7 | 6/21/2023 | | WATER |
| 8 | MW-8 | 6/21/2023 | | WATER |
| 9 | TW-1 | 6/21/2023 | | WATER |
| 10 | TW-2 | 6/21/2023 | | WATER |
| 11 | TW-3 | 6/21/2023 | | WATER |
| 12 | TW-4 | 6/21/2023 | | WATER |
| 13 | TW-5 | 6/21/2023 | | WATER |
| 14 | TW-6 | 6/21/2023 | | WATER |
| 15 | TW-7 | 6/21/2023 | | WATER |
| 16 | TW-8 | 6/21/2023 | | WATER |
| 17 | TW-9 | 6/21/2023 | | WATER |

ELECTRONIC SIGNATURE REPORT. This is a final report for the following pages of data for the samples specified above. All analysis was performed by the methods stated and all quality control measures required were completed. All quality control information is available upon request.

Kirk Chase

Kirk L. Chase/Chemist
Grand Traverse Analytical
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COMPANY: HRF EXPLORATION & PRODUCTION
PROJECT NO: 13.052
LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
GTA SAMPLE NO: 1
DATE SAMPLED: 6/21/2023
TIME SAMPLED:
DATE RECEIVED: 6/23/2023
TIME RECEIVED: 12:45 PM

MI
SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|---------------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| | SAMPLE ID: MW-1 CHLORIDE EPA 300.0 | 22 | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
LOD = LIMIT OF DETECTION
s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 2
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: MW-2 | CHLORIDE EPA 300.0 | 350 | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 3
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: | MW-3 | 84 | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |
| | CHLORIDE EPA 300.0 | | | | | | |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 4
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: MW-4 | CHLORIDE EPA 300.0 | 280 | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 5
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: | MW-5 | 90 | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |
| | CHLORIDE EPA 300.0 | | | | | | |

ND = NOT DETECTED, RESULT < LOD
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 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 6
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: MW-6 | CHLORIDE EPA 300.0 | 290 | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 7
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: MW-7 | CHLORIDE EPA 300.0 | ND | 10 | mg/L (PPM) | KC/TR | 6/30/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 8
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: MW-8 | CHLORIDE EPA 300.0 | ND | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 9
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: TW-1 | CHLORIDE EPA 300.0 | ND | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C
 MI
 SAMPLED BY: KWB/HURON

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 10
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: | TW-2 | 26 | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |
| | CHLORIDE EPA 300.0 | | | | | | |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 11
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: TW-3 | CHLORIDE EPA 300.0 | 64 | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 12
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|---------------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| | SAMPLE ID: TW-4 CHLORIDE EPA 300.0 | 150 | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 13
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: | TW-5 | ND | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |
| | CHLORIDE EPA 300.0 | | | | | | |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 14
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: TW-6 | CHLORIDE EPA 300.0 | 740 | 50 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 15
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: TW-7 | CHLORIDE EPA 300.0 | ND | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 16
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|------------|---------------------------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| | SAMPLE ID: TW-8 CHLORIDE EPA 300.0 | 87 | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

COMPANY: HRF EXPLORATION & PRODUCTION
 PROJECT NO: 13.052
 LOCATION: SOUTH RUST 10C

GTA PROJECT NO: 062323-7
 GTA SAMPLE NO: 17
 DATE SAMPLED: 6/21/2023
 TIME SAMPLED:
 DATE RECEIVED: 6/23/2023
 TIME RECEIVED: 12:45 PM

MI
 SAMPLED BY: KWB/HURON

SAMPLE ANALYSIS

| <u>No:</u> | <u>Analysis</u> | <u>Concentration</u> | <u>LOD</u> | <u>Units</u> | <u>Analyst</u> | <u>Date Completed</u> | <u>Sample Matrix</u> |
|-----------------|--------------------|----------------------|------------|--------------|----------------|-----------------------|----------------------|
| SAMPLE ID: TW-9 | CHLORIDE EPA 300.0 | 230 | 10 | mg/L (PPM) | KC/TR | 7/1/2023 | WATER |

ND = NOT DETECTED, RESULT < LOD
 LOD = LIMIT OF DETECTION
 s.u. = STANDARD pH UNITS REPORTED AT 25 C

Spring 2022 TB Release 1/4ly GW Monitoring
June 2023 SAGW Secondary Containment Monitoring

| | | |
|-------------------------|--|--|
| PROJECT NUMBER 13052 | SITE NAME/ADDRESS South Rust IOC | COMPANY/NAME HRF Exploration & Production |
| SAMPLED BY KWB | COMPANY Huron Engineering & Surveying | GTA PROJECT # 062323-7 |

SAMPLE INFORMATION

| # | SAMPLE ID | DATE SAMPLED | TIME | MATRIX | ANALYSIS | FC ms/cm |
|----|-----------|--------------|------|--------|----------|-------------|
| 1 | MW 1 | 6/21/23 | | GW | Chloride | 0.48 |
| 2 | MW 2 | | | | | 1.4 |
| 3 | MW 3 | | | | | 0.70 |
| 4 | MW 4 | | | | | 1.3 |
| 5 | MW 5 | | | | | 0.69 |
| 6 | MW 6 | | | | | 1.4 |
| 7 | MW 7 | | | | | 0.40 |
| 8 | MW 8 | | | | | 0.58 |
| 9 | TW 1 | | | | | 0.34 |
| 10 | TW 2 | | | | | 0.52 |
| 11 | TW 3 | | | | | 0.61 |
| 12 | TW 4 | | | | | 0.91 |
| 13 | TW 5 | | | | | 0.40 |
| 14 | TW 6 | | | | | 2.4 |
| 15 | TW 7 | | | | | 0.44 |

BILL TO: Kim Wallis-Burke
REPORT TO: Report

| | | | |
|---|-----------------------------|----------------------------------|----------------------------------|
| RELEASED BY Kimberly Wallis-Burke | DATE/TIME 6/22/23 | RECEIVED BY Alpena DPS | DATE/TIME 6/23/23 1245 |
|---|-----------------------------|----------------------------------|----------------------------------|

REQUESTED TAT STANDARD 1 BUSINESS DAY 2 BUSINESS DAYS 3 BUSINESS DAYS

