The results set forth herein are provided by SGS North America Inc.

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*Automated Report*

# Technical Report for

## Grandwood Enterprises

El Paso County Water Quality Testing

SGS Job Number: DA20418

Sampling Date: 09/19/19

Report to:

Grandwood Enterprises
270 Lodgepole Way
Monument, CO 80132
herebic5@msn.com

ATTN: Bill Herebic

Total number of pages in report: 32

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Jason Savoie
General Manager

Client Service contact: Elizabeth Sutcliffe 303-425-6021

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)
LA (LA150028), TX (T104704511), WY (8TMS-L)

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SGS North America Inc.

# Sample Summary

Grandwood Enterprises

**Job No:** DA20418

El Paso County Water Quality Testing

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| This report contains results reported as ND = Not detected. The following applies: | | | | | | | |
| Organics ND | = Not detected above the MDL | | | | | | |
| DA20418-1 | 09/19/19 | 21:30 | BH | 09/20/19 | DW | Drinking Water | 17695 MINGLEWOOD TRAIL, MON, CO 80132 |
| DA20418-1Z | 09/19/19 | 21:30 | BH | 09/20/19 | DW | Drinking Water | 17695 MINGLEWOOD TRAIL, MON, CO 80132 |

# CASE NARRATIVE / CONFORMANCE SUMMARY

| | | | |
|---|---|---|---|
| **Client:** | Grandwood Enterprises | **Job No** | DA20418 |
| **Site:** | El Paso County Water Quality Testing | **Report Date** | 12/16/2020 5:58:24 P |

On 09/20/2019, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.3°C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA20418 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

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It can be noted that the EPA MCL standards for water quality were not exceeded for any constituent tested by SGS and reported herein.

## MS Volatiles By Method EPA 524.2

**Matrix:** AQ **Batch ID:** V4V1667

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of 2,2-Dichloropropane are outside control limits.
- V4V1667-BS for 2,2-Dichloropropane: Outside control limits. Since the bias is high and the method blank is ND for target analytes, no further action is required.
- DA20418-1 for 2,2-Dichloropropane: Associated CCV outside of control limits high, sample was ND.

## MS Semi-volatiles By Method EPA 525.2

**Matrix:** AQ **Batch ID:** OP18334

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## MS Semi-volatiles By Method EPA 548.1

**Matrix:** AQ **Batch ID:** OP18337

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## GC Volatiles By Method EPA 504.1

**Matrix:** AQ **Batch ID:** OP18329

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## GC/LC Semi-volatiles By Method EPA 505

**Matrix:** DW **Batch ID:** OP18340

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- DA20418-1 for Aldrin: Associated CCV outside of control limits high, sample was ND.

## GC/LC Semi-volatiles By Method EPA 515.4

| **Matrix:** DW | **Batch ID:** OP18344 |
|---|---|

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## GC/LC Semi-volatiles By Method EPA 531.1

| **Matrix:** AQ | **Batch ID:** OP18374 |
|---|---|

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## GC/LC Semi-volatiles By Method EPA 547

| **Matrix:** AQ | **Batch ID:** OP18332 |
|---|---|

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## GC/LC Semi-volatiles By Method EPA 549.2

| **Matrix:** AQ | **Batch ID:** OP18331 |
|---|---|

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## Metals Analysis By Method EPA 200.8

| **Matrix:** DW | **Batch ID:** MP29051 |
|---|---|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

| **Matrix:** DW | **Batch ID:** MP29183 |
|---|---|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## Metals Analysis By Method EPA 245.1

| **Matrix:** DW | **Batch ID:** MP28993 |
|---|---|

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## General Chemistry By Method EPA 150.1

| **Matrix:** DW | **Batch ID:** GN48342 |
|---|---|

- The following samples were run outside of holding time for method EPA 150.1: DA20418-1 Analysis performed past recommended hold time.

## General Chemistry By Method EPA 300.0

| Matrix: DW | Batch ID: GP25953 |
|---|---|

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA20418-1MS, DA20418-1MSD were used as the QC samples for the Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Chloride analysis.

| Matrix: DW | Batch ID: R49213 |
|---|---|

- The data for EPA 300.0 meets quality control requirements.
- DA20418-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

## General Chemistry By Method EPA 335.4/SW 9012B

| Matrix: AQ | Batch ID: GP25966 |
|---|---|

- All samples were prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## General Chemistry By Method SM 2540C-2011

| Matrix: AQ | Batch ID: GN48329 |
|---|---|

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

## General Chemistry By Method SW846 7.2/9040C

| Matrix: AQ | Batch ID: GN48343 |
|---|---|

- DA20418-1 for Corrosivity as pH: Non Corrosive

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

# Summary of Hits



**Job Number:** DA20418
**Account:** Grandwood Enterprises
**Project:** El Paso County Water Quality Testing
**Collected:** 09/19/19

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| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **DA20418-1** | **17695 MINGLEWOOD TRAIL, MON, CO 80132** | | | | | |
| Barium | | 0.062 | 0.0020 | | mg/l | EPA 200.8 |
| Iron | | 0.023 | 0.010 | | mg/l | EPA 200.8 |
| Selenium | | 0.0066 | 0.00040 | | mg/l | EPA 200.8 |
| Chloride | | 1.1 | 0.50 | | mg/l | EPA 300.0 |
| Corrosivity as pH [a] | | 7.68 | | | su | SW846 7.2/9040C |
| Fluoride | | 0.47 | 0.10 | | mg/l | EPA 300.0 |
| Nitrogen, Nitrate | | 0.15 | 0.010 | | mg/l | EPA 300.0 |
| Nitrogen, Nitrate + Nitrite [b] | | 0.15 | 0.014 | | mg/l | EPA 300.0 |
| Solids, Total Dissolved | | 109 | 10 | | mg/l | SM 2540C-2011 |
| Sulfate | | 7.2 | 0.50 | | mg/l | EPA 300.0 |
| pH [c] | | 7.68 | | | su | EPA 150.1 |

(a) Non Corrosive
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(c) Analysis performed past recommended hold time.

## Sample Results

Report of Analysis

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 524.2 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 4V32568.D | 1 | 09/25/19 17:49 | DC | n/a | n/a | V4V1667 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 25.0 ml |
| Run #2 | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 108-86-1 | Bromobenzene | ND | | 0.50 | 0.50 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | | 0.50 | 0.50 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | | 0.50 | 0.50 | ug/l | |
| 75-25-2 | Bromoform | ND | | 0.50 | 0.50 | ug/l | |
| 74-83-9 | Bromomethane | ND | | 0.50 | 0.50 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 100 | 0.50 | 0.50 | ug/l | |
| 75-00-3 | Chloroethane | ND | | 0.50 | 0.50 | ug/l | |
| 67-66-3 | Chloroform | ND | | 0.50 | 0.50 | ug/l | |
| 74-87-3 | Chloromethane | ND | | 0.50 | 0.50 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | | 0.50 | 0.50 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | | 0.50 | 0.50 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | | 0.50 | 0.50 | ug/l | |
| 74-95-3 | Dibromomethane | ND | | 0.50 | 0.50 | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | | 0.50 | 0.50 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 600 | 0.50 | 0.50 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 75 | 0.50 | 0.50 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | | 0.50 | 0.50 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | | 0.50 | 0.50 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 0.50 | 0.50 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 70 | 0.50 | 0.50 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 100 | 0.50 | 0.50 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | | 0.50 | 0.50 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane [a] | ND | | 0.50 | 0.50 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | | 0.50 | 0.50 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 0.50 | 0.50 | ug/l | |

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 524.2 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

**VOA List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 542-75-6 | 1,3-Dichloropropene | ND | | 0.50 | 0.50 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 0.50 | 0.50 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 700 | 0.50 | 0.50 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | | 0.50 | 0.50 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | | 0.50 | 0.50 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 91-20-3 | Naphthalene | ND | | 0.50 | 0.50 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 100-42-5 | Styrene | ND | 100 | 0.50 | 0.50 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | | 0.50 | 0.50 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 0.50 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 1000 | 0.50 | 0.50 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 0.50 | 0.50 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 70 | 0.50 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 200 | 0.50 | 0.50 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | 0.50 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | | 0.50 | 0.50 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | | 0.50 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.50 | 0.50 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 2.0 | 0.50 | 0.50 | ug/l | |
| | m,p-Xylene | ND | | 0.50 | 0.50 | ug/l | |
| 95-47-6 | o-Xylene | ND | | 0.50 | 0.50 | ug/l | |
| 1330-20-7 | Xylenes (total) | ND | 10000 | 0.50 | 0.50 | ug/l | |
| | Total Trihalomethane | ND | 80 | 0.50 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 103% | | 70-130% |
| 2199-69-1 | 1,2-Dichlorobenzene-d4 | 117% | | 70-130% |

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 548.1 EPA 548.1 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 2G117842.D | 1 | 09/26/19 19:12 | LT | 09/25/19 | OP18337 | E2G1163 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 100 ml | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 145-73-3 | Endothall | ND | 100 | 5.0 | 3.6 | ug/l | |

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 525.2 EPA 525.2 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | 1G144791.D | 1 | 09/28/19 01:35 | LT | 09/25/19 | OP18334 | E1G2565 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1000 ml | 1.0 ml |
| Run #2 | | |

**EPA 525.2**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 15972-60-8 | Alachlor | ND | 2.0 | 0.20 | 0.20 | ug/l | |
| 1912-24-9 | Atrazine | ND | 3.0 | 0.10 | 0.10 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 0.20 | 0.020 | 0.020 | ug/l | |
| 23184-66-9 | Butachlor | ND | | 0.25 | 0.25 | ug/l | |
| 103-23-1 | bis(2-Ethylhexyl)adipate | ND | 400 | 0.60 | 0.60 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 6.0 | 0.60 | 0.60 | ug/l | |
| 51218-45-2 | Metolachlor | ND | | 0.25 | 0.25 | ug/l | |
| 21087-64-9 | Metribuzin | ND | | 0.25 | 0.25 | ug/l | |
| 1918-16-7 | Propachlor | ND | | 0.25 | 0.25 | ug/l | |
| 122-34-9 | Simazine | ND | 4.0 | 0.070 | 0.070 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | Perylene-d12 | 107% | | 70-130% |
| | Pyrene-d10 | 105% | | 70-130% |
| 115-86-6 | Triphenyl phosphate | 105% | | 70-130% |

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 504.1 EPA 504.1 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | GEH39505.D | 1 | 09/25/19 06:12 | GN | 09/24/19 | OP18329 | GEH1732 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 35.0 ml | 2.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.20 | 0.010 | 0.0080 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.050 | 0.010 | 0.0087 | ug/l | |

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 515.4 EPA 515.4 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | EF36582.D | 1 | 10/01/19 18:49 | KSH | 09/27/19 | OP18344 | GEF1506 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 40.0 ml | 4.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 94-75-7 | 2,4-D | ND | 70 | 0.10 | 0.10 | ug/l | |
| 75-99-0 | Dalapon | ND | 200 | 1.0 | 1.0 | ug/l | |
| 1918-00-9 | Dicamba | ND | | 0.30 | 0.30 | ug/l | |
| 88-85-7 | Dinoseb | ND | 7.0 | 0.20 | 0.20 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 1.0 | 0.040 | 0.040 | ug/l | |
| 1918-02-1 | Picloram | ND | 500 | 0.10 | 0.10 | ug/l | |
| 93-72-1 | 2,4,5-TP | ND | 50 | 0.20 | 0.20 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 19719-28-9 | 2,4-DCAA | 105% | | 70-130% |
| 19719-28-9 | 2,4-DCAA | 93% | | 70-130% |

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 505 EPA 505 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | GEH39532.D | 1 | 09/27/19 00:34 | GN | 09/26/19 | OP18340 | GEH1733 |
| Run #2 | GEH39577.D | 1 | 09/27/19 14:55 | GN | 09/26/19 | OP18340 | GEH1733 |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 35.0 ml | 2.0 ml |
| Run #2 | 35.0 ml | 2.0 ml |

**Primary Drinking Water Pesticide/PCB List**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 309-00-2 | Aldrin [a] | ND | | 0.010 | 0.010 | ug/l | |
| 5103-71-9 | alpha-Chlordane | ND | | 0.020 | 0.020 | ug/l | |
| 5103-74-2 | gamma-Chlordane | ND | | 0.020 | 0.020 | ug/l | |
| 58-89-9 | gamma-BHC (Lindane) | ND | 0.20 | 0.010 | 0.010 | ug/l | |
| 12789-03-6 | Chlordane | ND | 2.0 | 0.20 | 0.20 | ug/l | |
| 60-57-1 | Dieldrin | ND | | 0.010 | 0.010 | ug/l | |
| 72-20-8 | Endrin | ND | 2.0 | 0.010 | 0.010 | ug/l | |
| 76-44-8 | Heptachlor | ND | 0.40 | 0.020 | 0.020 | ug/l | |
| 1024-57-3 | Heptachlor epoxide | ND | 0.20 | 0.020 | 0.020 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 1.0 | 0.020 | 0.020 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 50 | 0.040 | 0.040 | ug/l | |
| 72-43-5 | Methoxychlor | ND | 40 | 0.020 | 0.020 | ug/l | |
| 8001-35-2 | Toxaphene | ND | 3.0 | 1.0 | 1.0 | ug/l | |
| 12674-11-2 | Aroclor 1016 | ND [b] | 0.50 | 0.080 | 0.080 | ug/l | |
| 11104-28-2 | Aroclor 1221 | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |
| 11141-16-5 | Aroclor 1232 | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |
| 53469-21-9 | Aroclor 1242 | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |
| 12672-29-6 | Aroclor 1248 | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |
| 11097-69-1 | Aroclor 1254 | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |
| 11096-82-5 | Aroclor 1260 | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |
| 1336-36-3 | Total PCBs | ND [b] | 0.50 | 0.10 | 0.10 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 877-09-8 | Tetrachloro-m-xylene | 103% | 101% | 70-140% |
| 877-09-8 | Tetrachloro-m-xylene | 124% | 103% | 70-140% |

(a) Associated CCV outside of control limits high, sample was ND.
(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 531.1 EPA 531.1 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | HB116753.D | 1 | 10/05/19 14:25 | JB | 10/03/19 | OP18374 | GHB766 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 10.0 ml | 10.0 ml |
| Run #2 | | |

**Carbamate Pesticide**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 116-06-3 | Aldicarb | ND | | 0.50 | 0.25 | ug/l | |
| 1646-88-4 | Aldicarb Sulfone | ND | | 0.50 | 0.25 | ug/l | |
| 1646-87-3 | Aldicarb Sulfoxide | ND | | 0.50 | 0.25 | ug/l | |
| 63-25-2 | Carbaryl | ND | | 0.50 | 0.25 | ug/l | |
| 1563-66-2 | Carbofuran | ND | 40 | 0.50 | 0.25 | ug/l | |
| 16655-82-6 | 3-Hydroxycarbofuran | ND | | 0.50 | 0.25 | ug/l | |
| 2032-65-7 | Methiocarb | ND | | 0.50 | 0.25 | ug/l | |
| 16752-77-5 | Methomyl | ND | | 0.50 | 0.25 | ug/l | |
| 23135-22-0 | Oxamyl | ND | 200 | 0.50 | 0.25 | ug/l | |
| 114-26-1 | Propoxur | ND | | 0.50 | 0.25 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 672-99-1 | BDMC | 92% | | 70-130% |

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 547 EPA 547 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | HB116681.D | 1 | 09/24/19 20:03 | JB | 09/24/19 | OP18332 | GHB763 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 10.0 ml | 10.0 ml |
| Run #2 | | |

**Glyphosate**

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 1071-83-6 | Glyphosate | ND | 700 | 5.0 | 2.5 | ug/l | |

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| **Method:** | EPA 549.2 EPA 549.2 | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | HA014615.D | 1 | 10/02/19 10:32 | NO | 09/24/19 | OP18331 | GHA562 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 250 ml | 10.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | MCL | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|---|
| 85-00-7 | Diquat | ND | 20 | 0.40 | 0.25 | ug/l | |

ND = Not detected MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| | | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

**Total Metals Analysis**

| Analyte | Result | MCL | RL | Units | DF | Prep | Analyzed | By | Method | Prep Method |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | < 0.050 | | 0.050 | mg/l | 1 | 09/24/19 | 10/08/19 | JM | EPA 200.8 [3] | EPA 200.8 [6] |
| Antimony | < 0.00040 | 0.0060 | 0.00040 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Arsenic | < 0.00080 | 0.010 | 0.00080 | mg/l | 1 | 10/09/19 | 10/10/19 | JM | EPA 200.8 [4] | EPA 200.8 [7] |
| Barium | 0.062 | 2.0 | 0.0020 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Beryllium | < 0.00020 | 0.0040 | 0.00020 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Cadmium | < 0.00010 | 0.0050 | 0.00010 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Chromium | < 0.0020 | 0.10 | 0.0020 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Iron | 0.023 | | 0.010 | mg/l | 1 | 10/09/19 | 10/10/19 | JM | EPA 200.8 [4] | EPA 200.8 [7] |
| Manganese | < 0.0010 | | 0.0010 | mg/l | 1 | 09/24/19 | 10/08/19 | JM | EPA 200.8 [3] | EPA 200.8 [6] |
| Mercury | < 0.00010 | 0.0020 | 0.00010 | mg/l | 1 | 09/24/19 | 09/24/19 | JM | EPA 245.1 [1] | EPA 245.1 [5] |
| Selenium | 0.0066 | 0.050 | 0.00040 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Silver | < 0.00010 | 0.10 | 0.00010 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Thallium | < 0.00020 | 0.0020 | 0.00020 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |
| Zinc | < 0.010 | 5.0 | 0.010 | mg/l | 1 | 09/24/19 | 09/29/19 | JM | EPA 200.8 [2] | EPA 200.8 [6] |

(1) Instrument QC Batch: MA11838
(2) Instrument QC Batch: MA11859
(3) Instrument QC Batch: MA11876
(4) Instrument QC Batch: MA11884
(5) Prep QC Batch: MP28993
(6) Prep QC Batch: MP29051
(7) Prep QC Batch: MP29183

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 141)

SGS North America Inc.

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | 17695 MINGLEWOOD TRAIL, MON, CO 80132 | | |
| **Lab Sample ID:** | DA20418-1 | **Date Sampled:** | 09/19/19 |
| **Matrix:** | DW - Drinking Water | **Date Received:** | 09/20/19 |
| | | **Percent Solids:** | n/a |
| **Project:** | El Paso County Water Quality Testing | | |

**General Chemistry**

| Analyte | Result | MCL | Units | DF | Analyzed | By | Method |
|---|---|---|---|---|---|---|---|
| Chloride | 1.1 | | mg/l | 1 | 09/21/19 10:05 | JB | EPA 300.0 |
| Corrosivity as pH [a] | 7.68 | | su | 1 | 09/23/19 12:20 | JD | SW846 7.2/9040C |
| Cyanide, Total | < 0.0050 | 0.20 | mg/l | 1 | 09/25/19 14:01 | AM | EPA 335.4 |
| Fluoride | 0.47 | 4.0 | mg/l | 1 | 09/21/19 10:05 | JB | EPA 300.0 |
| Nitrogen, Nitrate | 0.15 | 10 | mg/l | 1 | 09/21/19 10:05 | JB | EPA 300.0 |
| Nitrogen, Nitrate + Nitrite [b] | 0.15 | | mg/l | 1 | 09/21/19 10:05 | JB | EPA 300.0 |
| Nitrogen, Nitrite | < 0.0040 | 1.0 | mg/l | 1 | 09/21/19 10:05 | JB | EPA 300.0 |
| Solids, Total Dissolved | 109 | | mg/l | 1 | 09/23/19 | AK | SM 2540C-2011 |
| Sulfate | 7.2 | | mg/l | 1 | 09/21/19 10:05 | JB | EPA 300.0 |
| pH [c] | 7.68 | | su | 1 | 09/23/19 12:20 | JD | EPA 150.1 |

(a) Non Corrosive
(b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(c) Analysis performed past recommended hold time.

MCL = Maximum Contamination Level (40 CFR 141)

# Subcontract Lab Data

Report of Analysis

industrial
LABORATORIES

Industrial Laboratories is your independent, third-party analytical testing laboratory

To : SGS North America
4036 Youngfield St.
Wheat Ridge, CO 80033

Attn : Scott Heideman

# Test Report

**Report # Rpt-190923025**

Date Reported : 9/23/2019
Date Received : 9/20/2019

Client PO : DA20418X

5

| SampleCode | Client Sample ID | Test Method | Result | Units | Date Analyzed |
|---|---|---|---|---|---|
| 19092014-01A | DA20418X-1 (Z), 9/19/19, 9:30 PM | | | | |
| | | ***Total Coliforms** | | | **NH** |
| | | IL-MIC-M-023 / SMEWW 9223 B - Colilert | | | 9/20/2019 16:22 |
| | | Coliforms | **Absent** | | |

Digitally Signed By:
**Kathie Inman**

Date: 9/23/2019
1:59:06PM MT

Client Services/Sales

# = Subcontracted Analysis
* = Scope Analysis
‡ = Case Narrative on Sample

Measurement of Uncertainty for Scope methods are available upon request.

**Samples received in good condition unless otherwise noted in case narrative**



4046 Youngfield Street • Wheat Ridge, Colorado 80033 • (303) 287-9691 • (303) 287-0964 FAX • www.industriallabs.net

SGS

# CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa



FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: DA20418

**Client / Reporting Information**

Company Name: SGS North America Inc.
Street Address: 4036 Youngfield Street
City / State / Zip: Wheat Ridge, CO 8003:
Project Contact / E-mail: terri.mcnulty@sgs.com
Phone #: 303-425-6021 Fax #:
Sampler(s) Name(s): BH Phone:

**Project Information**

Project Name: DA20418

**Send Report and Invoice to:**
Elizabeth.Sutcliffe@sgs.com; Carissa.Cumine@sgs.com; Janel.Mulholland@sgs.com; Elizabeth.Bolstad@sgs.com; Scott.Heideman@sgs.com; Larisa.Dimarco@sgs.com

**Requested Analysis ( see TEST CODE sheet)**

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

| SGS Sample # | Field ID / Point of Collection (19092014) | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | TCFC. (PA) | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1Z | DA20418-1Z -01A | | 9/19/19 | 9:30:00 PM | BH | DW | | | | | | | | | | X | |

**Turnaround Time ( Business days)**

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Standard

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

**Data Deliverable Information**

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" ( Level 2)
- [ ] REDT1 ( Level 3)
- [ ] FULT1 ( Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [X] CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 | 9/20/19 | 1 1400 9/20/19 | 2 | | 2 |
| 3 | | 3 | 4 | | 4 |
| 5 | | 5 | | | |

Custody Seal # ☐ Intact ☐ Not intact — Preserved where applicable ☐ — Therm. ID: — On Ice ☐ — Cooler Temp.

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 19M02883
Received: Sep 23, 2019
Reported: Oct 11, 2019
Purchase Order No.
DA20418X

Customer ID: 00151Z
Account ID: Z05205

Scott Heideman
SGS North America
4036 Youngfield Street
Wheat Ridge, CO 80033-3862

# ANALYTICAL REPORT

*Report may only be copied in its entirety.*
*Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory*

By: Jessica Axen
Jessica Axen
Analytical Laboratories Director

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 19M02883
Received: Sep 23, 2019
Reported: Oct 11, 2019
Purchase Order No.
DA20418X

Customer ID: 00151Z
Account ID: Z05205

# ANALYTICAL REPORT

Scott Heideman
SGS North America

| Lab Sample ID | 19M02883-001 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Customer Sample ID | DA20418-1X | | | | | | | |
| | sampled on 09/19/19 @ 2130 by BH | | | | | | | |
| Parameter | Units | Code | Result | Precision* +/- | Detection Limit | Method | Analysis Date / Time | Analyst |
| Gross Alpha | pCi/L | T | 3.4 | 1.7 | 0.1 | SM 7110 B | 10/8/19 @ 0836 | SS |
| Gross Beta | pCi/L | T | 4.6 | 2.5 | 4.0 | SM 7110 B | 10/8/19 @ 0836 | SS |
| Total Solids | mg/L | T | 118 | - | 10 | EPA 160.3 | 9/24/19 | TL |

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

**HAZEN RESEARCH, INC.**
**RADIOCHEMISTRY LABORATORY**

Date: 10/08/2019

**Batch QC Summary Form**

Analyte: Gross Alpha

Control Standard/LFB: ID: C-11 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $\frac{(54.9)\ (1.000) - (0.0)\ (0.200)}{57.4} \times 100 =$ 96%

Batch QC Evaluation:

| Parameter | Criteria | Pass | Fail | N/A |
|---|---|---|---|---|
| | | | | |
| Control Std./LFB | +/- 30 % | X | | |
| Spike Recovery | 70 - 130 % | x | | |
| Blank | < or = 3 x Uncertainty | X | | |
| Duplicate 1 | 95% confidence interval overlap | X | | |
| Duplicate 2 * | 95% confidence interval overlap | | | X |

* Required for batch size greater than 10 samples.

Conclusions:

X Batch QC Passes**
_____ Batch QC Fails
_____ Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

19M02976
19M03016
19M02966
19M02534
19M02874
19M02881
19M02883
19M02884

Evaluator: Lynnea Rockwell

10/09/2019
Date

**HAZEN RESEARCH, INC.**
**RADIOCHEMISTRY LABORATORY**

Date: 10/08/2019

**Batch QC Summary Form**

Analyte: Gross Beta

Control Standard/LFB: ID: C-11 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $\frac{(36.8)\ (1.000) - (0.8)\ (0.200)}{44} \times 100 =$ 83%

Batch QC Evaluation:

| Parameter | Criteria | Pass | Fail | N/A |
|---|---|---|---|---|
| | | | | |
| Control Std./LFB | +/- 20 % | X | | |
| Spike Recovery | 80 - 120 % | x | | |
| Blank | < or = 3 x Uncertainty | X | | |
| Duplicate 1 | 95% confidence interval overlap | X | | |
| Duplicate 2 * | 95% confidence interval overlap | | | X |

* Required for batch size greater than 10 samples.

Conclusions:

X Batch QC Passes**
____ Batch QC Fails
____ Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

19M02976
19M03016
19M02966
19M02534
19M02874
19M02881
19M02883
19M02884

Evaluator: Lynnea Rockwell

10/09/2019
Date

# CHAIN OF CUSTODY

SGS

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

19m02883



FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: DA20418X

**Client / Reporting Information**

Company Name: SGS North America Inc.
Street Address: 4036 Youngfield Street
City / State / Zip: Wheat Ridge, CO 8003
Project Contact / E-mail: terri.mcnulty@sgs.com
Phone #: 303-425-6021 Fax #:
Sampler(s) Name(s): BH Phone:

**Project Information**

Project Name: DA20418X

**Send Report and Invoice to:**
Elizabeth.Sutcliffe@sgs.com; Carissa.Cumine@sgs.com;
Janel.Mulholland@sgs.com; Elizabeth.Bolstad@sgs.com;
Scott.Heideman@sgs.com; Larisa.Dimarco@sgs.com

**Requested Analysis ( see TEST CODE sheet)**

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

| SGS Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | GROSS Alpha ,GROSS Beta ,Total Solids , | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1X | DA20418-1X | | 9/19/19 | 9:30:00 PM | BH | DW | | | | | | | | | | X | |

Turnaround Time ( Business days)

Approved By (SGS PM): / Date:

- ☐ Standard 10 Day (business)
- ☐ 5 Business Days RUSH
- ☐ 3 Business Days RUSH
- ☐ 2 Business Days RUSH
- ☐ 1 Business Day EMERGENCY
- ☒ other Standard

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

**Data Deliverable Information**

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" ( Level 2)
- ☐ REDT1 ( Level 3)
- ☐ FULT1 ( Level 4)
- ☐ Commercial "C"
- ☐ State Forms
- ☐ EDD Format
- ☐ Other
- ☒ CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

Bottles have 2000

http://www.sgs.com/en/terms-and-conditions

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 9/20/19 1119 | | 1 9-23-19 1119 | 2 | | 2 |
| 3 | | 3 | 4 | | 4 |
| 5 | | 5 | | | |

Custody Seal # ☐ Intact ☐ Not Intact

Preserved where applicable

On Ice ☐ Cooler Temp.

Therm. ID:

# Misc. Forms



## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

# CHAIN OF CUSTODY

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SGS Job # DA20418

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street
Wheat Ridge, CO 80033-3862
303-425-6021; 877-737-4521
FAX: 303-425-6854
www.sgs.com/ehsusa

| Client/Reporting Information | Billing Information (If different from reporting) | Project Information |
|---|---|---|
| Company: GRANDWOOD ENTERPISES | Company: | PWSID or Project #: |
| Street: 270 LODGEPOLE WAY | Street: | System Name: |
| City: MONUMENT State: CO ZIP: 80132 | City: State: ZIP: | System Address: |
| Contact: BILL HEREBIC Phone: 719.651.9152 | Attention: | City: State: ZIP: |
| Email: herebic5@msn.com | Client PO #: | Contact Person: |
| Sampler: BILL HEREBIC Phone: 719.651.9152 | SGS Quote/Bottle Order #: | Tel: Email |

**Turn Around Time** (Business days)

- ☐ Standard 10 Business Days
- ☒ 5 Business Days RUSH
- ☐ 3 Business Days RUSH
- ☐ 2 Business Days RUSH
- ☐ 1 Business Day EMERGENCY

**State Form Information**

| | | |
|---|---|---|
| Compliance Samples | Yes ☐ | No ☐ |
| Submit Results to State | Yes ☐ | No ☐ |
| Include State Forms in Report** | Yes ☐ | No ☐ |

** possible extra charge

**Drinking Water Analyses (check analysis)**

| Sample Location or ID | Date | Time | No. of Containers | THM 524.2 | VOC 524.2 | Haloacetic Acids 552.2 | EDB/DBCP 504.1 | Pesticides / PCBs 505 | Herbicides 515.4 | SOC + OP Pesticides 525.2 | Carbamates 531.1 | Glyphosate 547 | Endothall 548.1 | Diquat 549.2 | Nitrate-N ☐ | Nitrite-N ☐ | Fluoride ☐ | Alkalinity ☐ | Langlier Index | TOC ☐ | DOC ☐ | UV254 ☐ SUVA ☐ | 11 Inorganic Metals * | Lead & Copper 200.8 | Uranium 200.8 | TOTAL METALS | CN, PH, SO4, TDS | CHL, CARB | Gross-A (Total Solid) | Gross- A+B | Ra 228 ☐ Ra 226 ☐ | Total Coliform (p/a) | Lab Use Only |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12695 MINGLEWOOD TRAIL, MON, CO 80132 | 9/19 | 9:30 AM | | | X | | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | X | X | X | X | X | | X | 01 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TB = 02 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9/20/19 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Special Instructions:**

* Inorganic Metals Include: Sb, As, Ba, Be, Cd, Cr, Hg, Ni, Se, Na, Tl

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Sampler: | Date/Time: | Received By: | Date/Time: | Relinquished By: | Date/Time: |
|---|---|---|---|---|---|
| 1 | 9/20/19 0730 | 1 | 9/20/19 0730 | 2 | 9/20/19 9:05AM |
| **Received By:** | **Date/Time:** | **Relinquished By:** | **Date/Time:** | **Received By:** | **Date/Time:** |
| 2 | 9/20/19 9:05 | 3 | | 3 | |

Custody Seal # Intact ☐ Not Intact ☐ Absent ☐ Preserved where applicable: ☐ Cooler Temp. (°C): 3.3 Therm. ID: T080 On Ice: ☒

http://www.sgs.com/terms-and-conditions

EHSA-QAC-0028-00-FORM-Wheat Ridge - DW COC; Rev. Date: 4/10/18

# SGS Sample Receipt Summary

**Job Number:** DA20418 **Client:** GRANDWOOD ENTERPRISES **Project:** El Paso County Water Quality Testing

**Date / Time Received:** 9/20/2019 9:05:00 AM **Delivery Method:** **Airbill #'s:** HD

**Cooler Temps (Initial/Adjusted):** #1: (3.3/3.3);

| Cooler Security | Y | or | N | | Y | or | N |
|---|---|---|---|---|---|---|---|
| 1. Custody Seals Present: | ☑ | | ☐ | 3. COC Present: | ☑ | | ☐ |
| 2. Custody Seals Intact: | ☑ | | ☐ | 4. Smpl Dates/Time OK | ☑ | | ☐ |

| Cooler Temperature | Y | or | N |
|---|---|---|---|
| 1. Temp criteria achieved: | ☑ | | ☐ |
| 2. Cooler temp verification: | IR Gun | | |
| 3. Cooler media: | Ice (Bag) | | |
| 4. No, Coolers | 1 | | |

| Quality Control Preservation | Y | N | N/A |
|---|---|---|---|
| 1. Trip Blank present / cooler: | ☑ | ☐ | ☐ |
| 2. Trip Blank listed on COC: | ☑ | ☐ | ☐ |
| 3. Samples preserved properly: | ☑ | ☐ | |
| 4. VOCs headspace free: | ☑ | ☐ | ☐ |

| Sample Integrity - Documentation | Y | or | N |
|---|---|---|---|
| 1. Sample labels present on bottles: | ☑ | | ☐ |
| 2. Container labeling complete: | ☑ | | ☐ |
| 3. Sample container label / COC agree: | ☑ | | ☐ |

| Sample Integrity - Condition | Y | or | N |
|---|---|---|---|
| 1. Sample recvd within HT: | ☑ | | ☐ |
| 2. All containers accounted for: | ☑ | | ☐ |
| 3. Condition of sample: | Intact | | |

| Sample Integrity - Instructions | Y | N | N/A |
|---|---|---|---|
| 1. Analysis requested is clear: | ☑ | ☐ | |
| 2. Bottles received for unspecified tests | ☐ | ☑ | |
| 3. Sufficient volume recvd for analysis: | ☑ | ☐ | |
| 4. Compositing instructions clear: | ☐ | ☐ | ☑ |
| 5. Filtering instructions clear: | ☐ | ☐ | ☑ |

Comments 5 day TAT requested on DW samples. PM to check with lab to see what TAT is possible. Metals not list on COC.

## Sample Receipt Summary - Problem Resolution

**Job Number:** DA20418 **Initiator:** jd

**CSR:** Lizz Sutcliffe **Response Date:** 9/20/2019

**Response:** Standard TAT logged per emails with client. Metals logged per bottle order and document with El Paso County Dept of Health and Environment's water quality testing requirements (received from Dave Jones): Total Metals by EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Se, Tl, Al, Fe, Mn, Ag, Zn; EPA 245.1: Hg.



**DA20418: Chain of Custody**
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