

PUBLIC SERVICE OF COLORADO  
PUBLIC SERVICE OF COLORADO

3/26/2020 7:59 AM

Micah Zamora

# Chromatograph Report

from Contract Day 02/01/2020 to Contract Day 02/29/2020

Station ID: CBTC

Analysis ID: CBTC

Analysis Name: WGIS (CHALK BL TO CHEY)

Company Name: PUBLIC SERVICE OF COLORADO

| Effective Date                | Sat. HV | As Del HV | Dry HV | Meas. HV | Water Content | Wobbe  | Real Gravity | C1      | C2      | C3     | IC4    | NC4    | IC5    | NC5    | C6     | C7     | C8     | C9     | C10    | N2     | CO2    | O2     | H2O    | CO     | H2S    | H2     | He     |        |
|-------------------------------|---------|-----------|--------|----------|---------------|--------|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02/01/2020 00:00              | 1072.3  | 0.0       | 1091.1 | 0.0      |               | 1360.1 | 0.6435       | 85.2224 | 9.9904  | 1.3921 | 0.0664 | 0.2244 | 0.0368 | 0.0391 | 0.0092 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5713 | 1.8115 | 0.0000 | 0.6365 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/02/2020 00:00              | 1076.2  | 0.0       | 1095.0 | 0.0      |               | 1363.7 | 0.6447       | 84.9407 | 10.6355 | 1.2779 | 0.0787 | 0.1780 | 0.0291 | 0.0315 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4930 | 1.8634 | 0.0000 | 0.4647 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/03/2020 00:00              | 1066.7  | 0.0       | 1085.4 | 0.0      |               | 1358.1 | 0.6387       | 85.9341 | 9.7122  | 1.1716 | 0.0775 | 0.1702 | 0.0270 | 0.0291 | 0.0068 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5794 | 1.7984 | 0.0000 | 0.4939 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/04/2020 00:00              | 1063.0  | 0.0       | 1081.7 | 0.0      |               | 1357.4 | 0.6350       | 86.4627 | 9.0850  | 1.2270 | 0.0706 | 0.1918 | 0.0295 | 0.0310 | 0.0068 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6322 | 1.6107 | 0.0000 | 0.6526 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/05/2020 00:00              | 1062.3  | 0.0       | 1081.0 | 0.0      |               | 1355.4 | 0.6361       | 86.5436 | 8.7478  | 1.3006 | 0.1025 | 0.2242 | 0.0356 | 0.0362 | 0.0078 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.7023 | 1.5732 | 0.0000 | 0.8553 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/06/2020 00:00              | 1070.2  | 0.0       | 1088.9 | 0.0      |               | 1360.0 | 0.6411       | 85.3559 | 10.0570 | 1.2268 | 0.0896 | 0.1987 | 0.0326 | 0.0348 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6248 | 1.6950 | 0.0000 | 0.6773 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/07/2020 00:00              | 1075.7  | 0.0       | 1094.5 | 0.0      |               | 1363.9 | 0.6440       | 84.8395 | 10.3678 | 1.4325 | 0.0784 | 0.2108 | 0.0331 | 0.0348 | 0.0077 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6144 | 1.6233 | 0.0000 | 0.7577 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/08/2020 00:00              | 1074.9  | 0.0       | 1093.7 | 0.0      |               | 1363.9 | 0.6431       | 85.0777 | 10.0839 | 1.5438 | 0.0873 | 0.1885 | 0.0289 | 0.0287 | 0.0056 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6263 | 1.6102 | 0.0000 | 0.7191 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/09/2020 00:00              | 1071.9  | 0.0       | 1090.6 | 0.0      |               | 1362.8 | 0.6404       | 85.3887 | 10.3821 | 1.1741 | 0.0702 | 0.1513 | 0.0233 | 0.0246 | 0.0055 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5794 | 1.6927 | 0.0000 | 0.5082 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/10/2020 00:00              | 1069.0  | 0.0       | 1087.6 | 0.0      |               | 1362.7 | 0.6370       | 85.8732 | 10.2880 | 1.0628 | 0.0418 | 0.1051 | 0.0143 | 0.0148 | 0.0033 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5907 | 1.6707 | 0.0000 | 0.3355 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/11/2020 00:00              | 1066.6  | 0.0       | 1085.2 | 0.0      |               | 1361.4 | 0.6354       | 86.2695 | 9.7778  | 1.1712 | 0.0442 | 0.1054 | 0.0126 | 0.0121 | 0.0027 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6976 | 1.6149 | 0.0000 | 0.2920 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/12/2020 00:00              | 1072.9  | 0.0       | 1091.7 | 0.0      |               | 1361.7 | 0.6427       | 85.0186 | 10.5720 | 1.1989 | 0.0700 | 0.1676 | 0.0265 | 0.0270 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5449 | 1.7838 | 0.0000 | 0.5848 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/13/2020 00:00              | 1071.8  | 0.0       | 1090.5 | 0.0      |               | 1362.7 | 0.6404       | 85.3191 | 10.5088 | 1.1285 | 0.0658 | 0.1442 | 0.0225 | 0.0231 | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5280 | 1.7161 | 0.0000 | 0.5389 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/14/2020 00:00              | 1071.1  | 0.0       | 1089.9 | 0.0      |               | 1359.4 | 0.6429       | 84.8880 | 10.4881 | 1.2137 | 0.0790 | 0.1731 | 0.0284 | 0.0293 | 0.0066 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5584 | 1.7703 | 0.0000 | 0.7652 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/15/2020 00:00              | 1073.2  | 0.0       | 1092.0 | 0.0      |               | 1362.3 | 0.6426       | 84.9728 | 10.5996 | 1.2082 | 0.0727 | 0.1661 | 0.0270 | 0.0276 | 0.0063 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5336 | 1.7426 | 0.0000 | 0.6434 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/16/2020 00:00              | 1071.0  | 0.0       | 1089.8 | 0.0      |               | 1359.6 | 0.6425       | 85.0265 | 10.2020 | 1.3437 | 0.0821 | 0.1788 | 0.0284 | 0.0284 | 0.0065 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6013 | 1.7134 | 0.0000 | 0.7889 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/17/2020 00:00              | 1071.6  | 0.0       | 1090.4 | 0.0      |               | 1359.7 | 0.6430       | 84.8586 | 10.5192 | 1.2174 | 0.0640 | 0.1829 | 0.0309 | 0.0320 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5381 | 1.7721 | 0.0000 | 0.7773 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/18/2020 00:00              | 1070.2  | 0.0       | 1089.0 | 0.0      |               | 1358.3 | 0.6428       | 84.9039 | 10.2532 | 1.3280 | 0.0403 | 0.2036 | 0.0337 | 0.0341 | 0.0077 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5984 | 1.7353 | 0.0000 | 0.8618 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/19/2020 00:00              | 1072.1  | 0.0       | 1090.9 | 0.0      |               | 1360.2 | 0.6432       | 84.8855 | 10.5035 | 1.2591 | 0.0462 | 0.1846 | 0.0301 | 0.0321 | 0.0081 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5705 | 1.7717 | 0.0000 | 0.7087 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/20/2020 00:00              | 1069.7  | 0.0       | 1088.5 | 0.0      |               | 1359.7 | 0.6409       | 85.2149 | 10.3625 | 1.1645 | 0.0469 | 0.1685 | 0.0268 | 0.0287 | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5843 | 1.7325 | 0.0000 | 0.6633 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/21/2020 00:00              | 1072.4  | 0.0       | 1091.2 | 0.0      |               | 1359.4 | 0.6443       | 84.7139 | 10.3635 | 1.3321 | 0.0704 | 0.2223 | 0.0367 | 0.0390 | 0.0098 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5827 | 1.7369 | 0.0000 | 0.8927 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/22/2020 00:00              | 1072.7  | 0.0       | 1091.5 | 0.0      |               | 1359.5 | 0.6446       | 84.6429 | 10.3759 | 1.3490 | 0.0833 | 0.2181 | 0.0377 | 0.0402 | 0.0102 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5888 | 1.7201 | 0.0000 | 0.9338 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/23/2020 00:00              | 1074.4  | 0.0       | 1093.3 | 0.0      |               | 1360.6 | 0.6456       | 84.5218 | 10.6343 | 1.2837 | 0.0811 | 0.2189 | 0.0382 | 0.0409 | 0.0104 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5444 | 1.7817 | 0.0000 | 0.8448 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/24/2020 00:00              | 1074.9  | 0.0       | 1093.8 | 0.0      |               | 1361.6 | 0.6453       | 84.6627 | 10.6259 | 1.2759 | 0.0823 | 0.2072 | 0.0368 | 0.0387 | 0.0094 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5469 | 1.7958 | 0.0000 | 0.7183 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/25/2020 00:00              | 1072.1  | 0.0       | 1090.8 | 0.0      |               | 1360.2 | 0.6431       | 84.9272 | 10.6708 | 1.1423 | 0.0598 | 0.1645 | 0.0276 | 0.0290 | 0.0071 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5658 | 1.8354 | 0.0000 | 0.5706 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/26/2020 00:00              | 1078.7  | 0.0       | 1097.5 | 0.0      |               | 1366.6 | 0.6449       | 84.6464 | 11.3425 | 1.1679 | 0.0439 | 0.1162 | 0.0179 | 0.0189 | 0.0049 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5301 | 1.8386 | 0.0000 | 0.2727 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/27/2020 00:00              | 1080.8  | 0.0       | 1099.6 | 0.0      |               | 1364.7 | 0.6493       | 83.9642 | 11.5727 | 1.2427 | 0.0584 | 0.1631 | 0.0282 | 0.0299 | 0.0072 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4991 | 1.9469 | 0.0000 | 0.4877 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/28/2020 00:00              | 1077.3  | 0.0       | 1096.2 | 0.0      |               | 1363.3 | 0.6465       | 84.3185 | 11.2302 | 1.2036 | 0.0531 | 0.1675 | 0.0287 | 0.0307 | 0.0076 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5257 | 1.8566 | 0.0000 | 0.5777 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/29/2020 00:00              | 1076.9  | 0.0       | 1095.7 | 0.0      |               | 1363.1 | 0.6461       | 84.4217 | 11.1458 | 1.1717 | 0.0782 | 0.1669 | 0.0289 | 0.0307 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5221 | 1.8545 | 0.0000 | 0.5720 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| <b>Flow Weighted Average:</b> | 1072.2  | 0.0       | 1090.9 | 0.0      |               | 0.6424 | 85.0968      | 10.3855 | 1.2478  | 0.0683 | 0.1777 | 0.0288 | 0.0302 | 0.0071 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5748 | 1.7475 | 0.0000 | 0.6399 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |





PUBLIC SERVICE OF COLORADO  
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3/26/2020 7:59 AM

Micah Zamora

# Chromatograph Report

from Contract Day 02/01/2020 to Contract Day 02/29/2020

Station ID: RTU631

Analysis ID: CBTC

Analysis Name: WGIS (CHALK BL TO CHEY)

Company Name: PUBLIC SERVICE OF COLORADO

| Effective Date                | Sat. HV | As Del HV | Dry HV | Meas. HV | Water Content | Wobbe  | Real Gravity | C1      | C2      | C3     | IC4    | NC4    | IC5    | NC5    | C6     | C7     | C8     | C9     | C10    | N2     | CO2    | O2     | H2O    | CO     | H2S    | H2     | He     |        |
|-------------------------------|---------|-----------|--------|----------|---------------|--------|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02/01/2020 00:00              | 1072.3  | 0.0       | 1091.1 | 0.0      |               | 1360.1 | 0.6435       | 85.2225 | 9.9895  | 1.3922 | 0.0665 | 0.2244 | 0.0368 | 0.0391 | 0.0092 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5714 | 1.8115 | 0.0000 | 0.6368 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/02/2020 00:00              | 1076.1  | 0.0       | 1094.9 | 0.0      |               | 1363.6 | 0.6447       | 84.9454 | 10.6305 | 1.2774 | 0.0788 | 0.1779 | 0.0291 | 0.0314 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4936 | 1.8639 | 0.0000 | 0.4646 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/03/2020 00:00              | 1066.8  | 0.0       | 1085.4 | 0.0      |               | 1358.1 | 0.6387       | 85.9280 | 9.7135  | 1.1732 | 0.0776 | 0.1704 | 0.0270 | 0.0291 | 0.0068 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5802 | 1.7990 | 0.0000 | 0.4952 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/04/2020 00:00              | 1062.9  | 0.0       | 1081.6 | 0.0      |               | 1357.5 | 0.6348       | 86.4845 | 9.1370  | 1.1890 | 0.0663 | 0.1879 | 0.0292 | 0.0309 | 0.0069 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6161 | 1.6191 | 0.0000 | 0.6330 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/05/2020 00:00              | 1062.6  | 0.0       | 1081.3 | 0.0      |               | 1355.4 | 0.6364       | 86.5428 | 8.7582  | 1.2958 | 0.1034 | 0.2276 | 0.0365 | 0.0371 | 0.0081 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6992 | 1.5793 | 0.0000 | 0.8691 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/06/2020 00:00              | 1070.2  | 0.0       | 1088.9 | 0.0      |               | 1360.0 | 0.6411       | 85.3538 | 10.0583 | 1.2269 | 0.0896 | 0.1989 | 0.0326 | 0.0349 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6246 | 1.6953 | 0.0000 | 0.6776 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/07/2020 00:00              | 1075.7  | 0.0       | 1094.5 | 0.0      |               | 1363.9 | 0.6440       | 84.8423 | 10.3646 | 1.4333 | 0.0785 | 0.2107 | 0.0330 | 0.0348 | 0.0077 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6147 | 1.6230 | 0.0000 | 0.7574 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/08/2020 00:00              | 1074.9  | 0.0       | 1093.7 | 0.0      |               | 1363.9 | 0.6431       | 85.0777 | 10.0839 | 1.5438 | 0.0873 | 0.1885 | 0.0289 | 0.0287 | 0.0056 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6263 | 1.6102 | 0.0000 | 0.7191 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/09/2020 00:00              | 1072.2  | 0.0       | 1090.9 | 0.0      |               | 1362.8 | 0.6407       | 85.3419 | 10.3864 | 1.1901 | 0.0722 | 0.1557 | 0.0241 | 0.0254 | 0.0056 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5788 | 1.6928 | 0.0000 | 0.5270 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/10/2020 00:00              | 1069.0  | 0.0       | 1087.6 | 0.0      |               | 1362.7 | 0.6370       | 85.8791 | 10.2839 | 1.0635 | 0.0415 | 0.1047 | 0.0142 | 0.0147 | 0.0033 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5920 | 1.6701 | 0.0000 | 0.3332 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/11/2020 00:00              | 1066.6  | 0.0       | 1085.2 | 0.0      |               | 1361.4 | 0.6354       | 86.2695 | 9.7778  | 1.1712 | 0.0442 | 0.1054 | 0.0126 | 0.0121 | 0.0027 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6976 | 1.6149 | 0.0000 | 0.2920 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/12/2020 00:00              | 1073.1  | 0.0       | 1091.8 | 0.0      |               | 1361.7 | 0.6429       | 85.0020 | 10.5858 | 1.2009 | 0.0700 | 0.1684 | 0.0267 | 0.0272 | 0.0061 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5437 | 1.7871 | 0.0000 | 0.5821 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/13/2020 00:00              | 1072.0  | 0.0       | 1090.7 | 0.0      |               | 1362.9 | 0.6404       | 85.3076 | 10.5235 | 1.1262 | 0.0669 | 0.1454 | 0.0229 | 0.0236 | 0.0051 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5200 | 1.7137 | 0.0000 | 0.5452 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/14/2020 00:00              | 1071.2  | 0.0       | 1090.0 | 0.0      |               | 1359.4 | 0.6429       | 84.8799 | 10.4909 | 1.2148 | 0.0790 | 0.1735 | 0.0285 | 0.0294 | 0.0066 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5587 | 1.7720 | 0.0000 | 0.7666 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/15/2020 00:00              | 1073.2  | 0.0       | 1092.0 | 0.0      |               | 1362.3 | 0.6426       | 84.9719 | 10.5987 | 1.2089 | 0.0727 | 0.1663 | 0.0270 | 0.0276 | 0.0063 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5338 | 1.7428 | 0.0000 | 0.6440 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/16/2020 00:00              | 1070.9  | 0.0       | 1089.7 | 0.0      |               | 1359.6 | 0.6425       | 85.0306 | 10.1955 | 1.3453 | 0.0819 | 0.1788 | 0.0284 | 0.0283 | 0.0065 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6025 | 1.7129 | 0.0000 | 0.7893 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/17/2020 00:00              | 1071.5  | 0.0       | 1090.3 | 0.0      |               | 1359.7 | 0.6430       | 84.8604 | 10.5150 | 1.2189 | 0.0637 | 0.1830 | 0.0309 | 0.0320 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5391 | 1.7715 | 0.0000 | 0.7782 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/18/2020 00:00              | 1070.2  | 0.0       | 1089.0 | 0.0      |               | 1358.3 | 0.6428       | 84.9039 | 10.2532 | 1.3280 | 0.0403 | 0.2036 | 0.0337 | 0.0341 | 0.0077 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5984 | 1.7353 | 0.0000 | 0.8618 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/19/2020 00:00              | 1072.0  | 0.0       | 1090.8 | 0.0      |               | 1360.2 | 0.6431       | 84.9050 | 10.4978 | 1.2543 | 0.0457 | 0.1832 | 0.0298 | 0.0318 | 0.0080 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5708 | 1.7709 | 0.0000 | 0.7027 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/20/2020 00:00              | 1070.1  | 0.0       | 1088.9 | 0.0      |               | 1359.9 | 0.6411       | 85.1630 | 10.4100 | 1.1621 | 0.0476 | 0.1706 | 0.0273 | 0.0294 | 0.0072 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5778 | 1.7369 | 0.0000 | 0.6681 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/21/2020 00:00              | 1071.9  | 0.0       | 1090.7 | 0.0      |               | 1359.4 | 0.6438       | 84.7693 | 10.3758 | 1.3015 | 0.0672 | 0.2150 | 0.0355 | 0.0377 | 0.0094 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5775 | 1.7360 | 0.0000 | 0.8752 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/22/2020 00:00              | 1072.5  | 0.0       | 1091.4 | 0.0      |               | 1359.4 | 0.6445       | 84.6522 | 10.3708 | 1.3448 | 0.0838 | 0.2166 | 0.0374 | 0.0399 | 0.0102 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5892 | 1.7198 | 0.0000 | 0.9354 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/23/2020 00:00              | 1074.4  | 0.0       | 1093.3 | 0.0      |               | 1360.7 | 0.6456       | 84.5194 | 10.6356 | 1.2843 | 0.0812 | 0.2191 | 0.0382 | 0.0409 | 0.0104 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5442 | 1.7817 | 0.0000 | 0.8451 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/24/2020 00:00              | 1074.9  | 0.0       | 1093.8 | 0.0      |               | 1361.6 | 0.6453       | 84.6604 | 10.6283 | 1.2755 | 0.0824 | 0.2072 | 0.0368 | 0.0387 | 0.0094 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5467 | 1.7962 | 0.0000 | 0.7184 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/25/2020 00:00              | 1071.9  | 0.0       | 1090.7 | 0.0      |               | 1360.2 | 0.6430       | 84.9414 | 10.6690 | 1.1379 | 0.0590 | 0.1630 | 0.0273 | 0.0286 | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5660 | 1.8350 | 0.0000 | 0.5658 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/26/2020 00:00              | 1078.6  | 0.0       | 1097.4 | 0.0      |               | 1366.6 | 0.6448       | 84.6578 | 11.3339 | 1.1659 | 0.0437 | 0.1160 | 0.0178 | 0.0189 | 0.0049 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5307 | 1.8373 | 0.0000 | 0.2732 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/27/2020 00:00              | 1080.7  | 0.0       | 1099.6 | 0.0      |               | 1364.7 | 0.6492       | 83.9692 | 11.5689 | 1.2426 | 0.0583 | 0.1630 | 0.0282 | 0.0299 | 0.0072 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4994 | 1.9460 | 0.0000 | 0.4875 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/28/2020 00:00              | 1077.3  | 0.0       | 1096.1 | 0.0      |               | 1363.3 | 0.6465       | 84.3256 | 11.2237 | 1.2028 | 0.0531 | 0.1674 | 0.0287 | 0.0307 | 0.0076 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5263 | 1.8559 | 0.0000 | 0.5781 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/29/2020 00:00              | 1076.8  | 0.0       | 1095.7 | 0.0      |               | 1363.1 | 0.6461       | 84.4269 | 11.1393 | 1.1721 | 0.0782 | 0.1669 | 0.0288 | 0.0307 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5229 | 1.8539 | 0.0000 | 0.5728 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| <b>Flow Weighted Average:</b> | 1072.2  | 0.0       | 1090.9 | 0.0      |               |        | 0.6423       | 85.1061 | 10.4002 | 1.2395 | 0.0672 | 0.1753 | 0.0284 | 0.0298 | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5740 | 1.7495 | 0.0000 | 0.6277 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

PUBLIC SERVICE OF COLORADO  
PUBLIC SERVICE OF COLORADO

3/26/2020 7:59 AM

Micah Zamora

# Chromatograph Report

from Contract Day 02/01/2020 to Contract Day 02/29/2020

Station ID: WGI IN  
Analysis ID: CBTC  
Analysis Name: WGIS (CHALK BL TO CHEY)  
Company Name: PUBLIC SERVICE OF COLORADO

| Effective Date                | Sat. HV | As Del HV | Dry HV | Meas. HV | Water Content | Wobbe  | Real Gravity | C1      | C2      | C3     | IC4    | NC4    | IC5    | NC5    | C6     | C7     | C8     | C9     | C10    | N2     | CO2    | O2     | H2O    | CO     | H2S    | H2     | He     |        |
|-------------------------------|---------|-----------|--------|----------|---------------|--------|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 02/01/2020 00:00              | 1072.3  | 0.0       | 1091.1 | 0.0      |               | 1360.1 | 0.6435       | 85.2142 | 9.9958  | 1.3924 | 0.0659 | 0.2245 | 0.0367 | 0.0391 | 0.0092 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5709 | 1.8127 | 0.0000 | 0.6385 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/02/2020 00:00              | 1076.3  | 0.0       | 1095.1 | 0.0      |               | 1363.8 | 0.6447       | 84.9408 | 10.6475 | 1.2755 | 0.0787 | 0.1769 | 0.0290 | 0.0313 | 0.0074 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4913 | 1.8625 | 0.0000 | 0.4592 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/03/2020 00:00              | 1067.0  | 0.0       | 1085.6 | 0.0      |               | 1358.3 | 0.6388       | 85.9210 | 9.7426  | 1.1641 | 0.0768 | 0.1705 | 0.0272 | 0.0293 | 0.0069 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5721 | 1.8015 | 0.0000 | 0.4879 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/04/2020 00:00              | 1063.1  | 0.0       | 1081.7 | 0.0      |               | 1357.3 | 0.6352       | 86.4530 | 9.0259  | 1.2599 | 0.0760 | 0.1968 | 0.0300 | 0.0314 | 0.0069 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6462 | 1.5971 | 0.0000 | 0.6767 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/05/2020 00:00              | 1062.5  | 0.0       | 1081.2 | 0.0      |               | 1355.5 | 0.6362       | 86.5391 | 8.7544  | 1.3061 | 0.1024 | 0.2236 | 0.0354 | 0.0360 | 0.0077 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.7039 | 1.5730 | 0.0000 | 0.8508 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/06/2020 00:00              | 1070.6  | 0.0       | 1089.4 | 0.0      |               | 1360.3 | 0.6414       | 85.3052 | 10.1046 | 1.2300 | 0.0897 | 0.1994 | 0.0327 | 0.0350 | 0.0076 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6215 | 1.6989 | 0.0000 | 0.6753 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/07/2020 00:00              | 1075.7  | 0.0       | 1094.6 | 0.0      |               | 1364.1 | 0.6439       | 84.8539 | 10.3607 | 1.4410 | 0.0775 | 0.2079 | 0.0325 | 0.0341 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6117 | 1.6216 | 0.0000 | 0.7515 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/08/2020 00:00              | 1074.9  | 0.0       | 1093.7 | 0.0      |               | 1363.9 | 0.6431       | 85.0777 | 10.0839 | 1.5438 | 0.0873 | 0.1885 | 0.0289 | 0.0287 | 0.0056 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6263 | 1.6102 | 0.0000 | 0.7191 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/09/2020 00:00              | 1072.2  | 0.0       | 1090.9 | 0.0      |               | 1362.9 | 0.6407       | 85.3379 | 10.4058 | 1.1824 | 0.0719 | 0.1545 | 0.0240 | 0.0253 | 0.0056 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5764 | 1.6946 | 0.0000 | 0.5215 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/10/2020 00:00              | 1069.0  | 0.0       | 1087.6 | 0.0      |               | 1362.7 | 0.6370       | 85.8766 | 10.2829 | 1.0646 | 0.0417 | 0.1050 | 0.0143 | 0.0147 | 0.0033 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5921 | 1.6701 | 0.0000 | 0.3346 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/11/2020 00:00              | 1066.6  | 0.0       | 1085.2 | 0.0      |               | 1361.4 | 0.6354       | 86.2695 | 9.7778  | 1.1712 | 0.0442 | 0.1054 | 0.0126 | 0.0121 | 0.0027 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6976 | 1.6149 | 0.0000 | 0.2920 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/12/2020 00:00              | 1073.0  | 0.0       | 1091.8 | 0.0      |               | 1361.7 | 0.6428       | 85.0101 | 10.5778 | 1.2005 | 0.0701 | 0.1681 | 0.0266 | 0.0271 | 0.0061 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5444 | 1.7852 | 0.0000 | 0.5841 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/13/2020 00:00              | 1071.7  | 0.0       | 1090.4 | 0.0      |               | 1362.6 | 0.6404       | 85.3214 | 10.4893 | 1.1348 | 0.0662 | 0.1450 | 0.0226 | 0.0232 | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5318 | 1.7160 | 0.0000 | 0.5445 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/14/2020 00:00              | 1071.2  | 0.0       | 1090.0 | 0.0      |               | 1359.4 | 0.6429       | 84.8794 | 10.4851 | 1.2182 | 0.0793 | 0.1742 | 0.0286 | 0.0295 | 0.0066 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5596 | 1.7714 | 0.0000 | 0.7681 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/15/2020 00:00              | 1073.3  | 0.0       | 1092.1 | 0.0      |               | 1362.2 | 0.6427       | 84.9669 | 10.5835 | 1.2178 | 0.0736 | 0.1680 | 0.0273 | 0.0279 | 0.0064 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5365 | 1.7414 | 0.0000 | 0.6507 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/16/2020 00:00              | 1070.7  | 0.0       | 1089.5 | 0.0      |               | 1359.4 | 0.6423       | 85.0580 | 10.1636 | 1.3498 | 0.0812 | 0.1775 | 0.0280 | 0.0279 | 0.0064 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.6092 | 1.7108 | 0.0000 | 0.7878 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/17/2020 00:00              | 1071.3  | 0.0       | 1090.1 | 0.0      |               | 1359.5 | 0.6429       | 84.8842 | 10.4705 | 1.2309 | 0.0615 | 0.1841 | 0.0309 | 0.0319 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5474 | 1.7652 | 0.0000 | 0.7860 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/18/2020 00:00              | 1070.2  | 0.0       | 1089.0 | 0.0      |               | 1358.3 | 0.6428       | 84.9039 | 10.2532 | 1.3280 | 0.0403 | 0.2036 | 0.0337 | 0.0341 | 0.0077 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5984 | 1.7353 | 0.0000 | 0.8618 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/19/2020 00:00              | 1071.6  | 0.0       | 1090.3 | 0.0      |               | 1360.1 | 0.6426       | 84.9783 | 10.4674 | 1.2399 | 0.0449 | 0.1786 | 0.0289 | 0.0309 | 0.0078 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5738 | 1.7668 | 0.0000 | 0.6827 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/20/2020 00:00              | 1069.9  | 0.0       | 1088.7 | 0.0      |               | 1359.8 | 0.6410       | 85.1959 | 10.3775 | 1.1660 | 0.0475 | 0.1695 | 0.0270 | 0.0290 | 0.0071 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5830 | 1.7329 | 0.0000 | 0.6646 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/21/2020 00:00              | 1072.6  | 0.0       | 1091.5 | 0.0      |               | 1359.6 | 0.6445       | 84.6978 | 10.3591 | 1.3473 | 0.0707 | 0.2246 | 0.0370 | 0.0393 | 0.0098 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5851 | 1.7346 | 0.0000 | 0.8947 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/22/2020 00:00              | 1072.6  | 0.0       | 1091.5 | 0.0      |               | 1359.5 | 0.6446       | 84.6437 | 10.3748 | 1.3464 | 0.0839 | 0.2175 | 0.0376 | 0.0401 | 0.0102 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5888 | 1.7199 | 0.0000 | 0.9373 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/23/2020 00:00              | 1074.5  | 0.0       | 1093.4 | 0.0      |               | 1360.7 | 0.6457       | 84.5115 | 10.6431 | 1.2846 | 0.0815 | 0.2195 | 0.0383 | 0.0410 | 0.0104 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5431 | 1.7818 | 0.0000 | 0.8453 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/24/2020 00:00              | 1075.0  | 0.0       | 1093.8 | 0.0      |               | 1361.6 | 0.6454       | 84.6381 | 10.6546 | 1.2689 | 0.0816 | 0.2073 | 0.0368 | 0.0387 | 0.0094 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5438 | 1.8037 | 0.0000 | 0.7170 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/25/2020 00:00              | 1071.7  | 0.0       | 1090.5 | 0.0      |               | 1360.1 | 0.6428       | 84.9757 | 10.6512 | 1.1337 | 0.0581 | 0.1605 | 0.0268 | 0.0280 | 0.0069 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5687 | 1.8306 | 0.0000 | 0.5597 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/26/2020 00:00              | 1078.7  | 0.0       | 1097.5 | 0.0      |               | 1366.2 | 0.6453       | 84.6022 | 11.3292 | 1.1830 | 0.0463 | 0.1206 | 0.0187 | 0.0198 | 0.0051 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5340 | 1.8485 | 0.0000 | 0.2927 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/27/2020 00:00              | 1080.3  | 0.0       | 1099.2 | 0.0      |               | 1364.6 | 0.6488       | 84.0249 | 11.5249 | 1.2376 | 0.0572 | 0.1621 | 0.0279 | 0.0296 | 0.0071 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5018 | 1.9365 | 0.0000 | 0.4904 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/28/2020 00:00              | 1076.4  | 0.0       | 1095.2 | 0.0      |               | 1362.8 | 0.6459       | 84.4191 | 11.1392 | 1.1905 | 0.0544 | 0.1663 | 0.0284 | 0.0303 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5344 | 1.8455 | 0.0000 | 0.5845 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| 02/29/2020 00:00              | 1076.5  | 0.0       | 1095.4 | 0.0      |               | 1362.8 | 0.6460       | 84.4389 | 11.1260 | 1.1660 | 0.0779 | 0.1665 | 0.0288 | 0.0307 | 0.0075 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5242 | 1.8563 | 0.0000 | 0.5773 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |        |
| <b>Flow Weighted Average:</b> | 1072.1  | 0.0       | 1090.9 | 0.0      |               |        | 0.6424       | 85.1037 | 10.3757 | 1.2498 | 0.0684 | 0.1777 | 0.0288 | 0.0301 | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5766 | 1.7462 | 0.0000 | 0.6405 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |