



PUBLIC SERVICE OF COLORADO

11/4/2019 10:31 AM

Micah Zamora

Chromatograph Report

from Contract Day 10/01/2019 to Contract Day 10/31/2019

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
10/01/2019 00:00	1087.6	0.0	1106.6	0.0		1369.0	0.6533	83.7996	11.0445	1.6486	0.1633	0.2554	0.0403	0.0436	0.0110	0.0000	0.0000	0.0000	0.0000	0.5784	1.8218	0.0000	0.5935	0.0000	0.0000	0.0000	0.0000
10/02/2019 00:00	1088.7	0.0	1107.8	0.0		1369.9	0.6539	83.7365	11.1575	1.6122	0.1856	0.2544	0.0404	0.0442	0.0113	0.0000	0.0000	0.0000	0.0000	0.5524	1.8418	0.0000	0.5637	0.0000	0.0000	0.0000	0.0000
10/03/2019 00:00	1094.0	0.0	1113.1	0.0		1374.7	0.6556	83.5860	11.1609	1.7106	0.3070	0.2631	0.0408	0.0444	0.0115	0.0000	0.0000	0.0000	0.0000	0.5482	1.7144	0.0000	0.6133	0.0000	0.0000	0.0000	0.0000
10/04/2019 00:00	1091.7	0.0	1110.9	0.0		1371.7	0.6558	83.4500	11.1044	1.8935	0.1219	0.2974	0.0455	0.0491	0.0122	0.0000	0.0000	0.0000	0.0000	0.5303	1.7863	0.0000	0.7095	0.0000	0.0000	0.0000	0.0000
10/05/2019 00:00	1090.2	0.0	1109.3	0.0		1370.6	0.6551	83.6122	10.8697	1.8932	0.1331	0.3171	0.0441	0.0483	0.0130	0.0000	0.0000	0.0000	0.0000	0.5008	1.7920	0.0000	0.7766	0.0000	0.0000	0.0000	0.0000
10/06/2019 00:00	1091.7	0.0	1110.9	0.0		1371.7	0.6558	83.4597	11.0973	1.8431	0.1499	0.3009	0.0480	0.0521	0.0130	0.0000	0.0000	0.0000	0.0000	0.5170	1.7856	0.0000	0.7334	0.0000	0.0000	0.0000	0.0000
10/07/2019 00:00	1094.6	0.0	1113.8	0.0		1372.8	0.6583	83.0801	11.3190	1.8761	0.1691	0.3245	0.0533	0.0586	0.0149	0.0000	0.0000	0.0000	0.0000	0.4686	1.8115	0.0000	0.8243	0.0000	0.0000	0.0000	0.0000
10/08/2019 00:00	1093.0	0.0	1112.2	0.0		1371.5	0.6577	83.0844	11.3239	1.8602	0.1195	0.3314	0.0539	0.0593	0.0151	0.0000	0.0000	0.0000	0.0000	0.4752	1.8177	0.0000	0.8595	0.0000	0.0000	0.0000	0.0000
10/09/2019 00:00	1089.8	0.0	1109.0	0.0		1369.9	0.6553	83.3646	11.1558	1.7556	0.1181	0.3191	0.0538	0.0594	0.0150	0.0000	0.0000	0.0000	0.0000	0.4892	1.7717	0.0000	0.8977	0.0000	0.0000	0.0000	0.0000
10/10/2019 00:00	1086.8	0.0	1105.8	0.0		1367.3	0.6541	83.4958	11.1600	1.6372	0.1296	0.2875	0.0466	0.0487	0.0128	0.0000	0.0000	0.0000	0.0000	0.5223	1.8300	0.0000	0.8294	0.0000	0.0000	0.0000	0.0000
10/11/2019 00:00	1089.3	0.0	1108.5	0.0		1368.2	0.6564	83.2605	11.2004	1.6942	0.1847	0.3038	0.0513	0.0553	0.0137	0.0000	0.0000	0.0000	0.0000	0.5008	1.8652	0.0000	0.8701	0.0000	0.0000	0.0000	0.0000
10/12/2019 00:00	1091.1	0.0	1110.3	0.0		1371.2	0.6556	83.1197	11.6179	1.6212	0.1237	0.2941	0.0498	0.0548	0.0142	0.0000	0.0000	0.0000	0.0000	0.4837	1.7657	0.0000	0.8552	0.0000	0.0000	0.0000	0.0000
10/13/2019 00:00	1093.4	0.0	1112.6	0.0		1373.0	0.6567	82.9440	11.7218	1.6648	0.1260	0.3124	0.0541	0.0601	0.0159	0.0000	0.0000	0.0000	0.0000	0.4447	1.7365	0.0000	0.9196	0.0000	0.0000	0.0000	0.0000
10/14/2019 00:00	1093.0	0.0	1112.2	0.0		1372.7	0.6565	83.0080	11.6784	1.6423	0.1277	0.3173	0.0550	0.0609	0.0162	0.0000	0.0000	0.0000	0.0000	0.4325	1.7475	0.0000	0.9143	0.0000	0.0000	0.0000	0.0000
10/15/2019 00:00	1091.0	0.0	1110.1	0.0		1371.8	0.6549	83.4075	11.3098	1.6573	0.1511	0.3052	0.0525	0.0571	0.0154	0.0000	0.0000	0.0000	0.0000	0.4484	1.7511	0.0000	0.8448	0.0000	0.0000	0.0000	0.0000
10/16/2019 00:00	1096.0	0.0	1115.2	0.0		1373.5	0.6592	82.9086	11.5969	1.6659	0.3109	0.2919	0.0517	0.0576	0.0155	0.0000	0.0000	0.0000	0.0000	0.4398	1.8290	0.0000	0.8322	0.0000	0.0000	0.0000	0.0000
10/17/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/18/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/19/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/20/2019 00:00	1094.7	0.0	1113.9	0.0		1371.5	0.6596	82.4970	12.2375	1.6183	0.1088	0.2841	0.0473	0.0529	0.0135	0.0000	0.0000	0.0000	0.0000	0.4114	1.9539	0.0000	0.7755	0.0000	0.0000	0.0000	0.0000
10/21/2019 00:00	1094.1	0.0	1113.3	0.0		1372.4	0.6580	82.7640	12.2585	1.5482	0.0773	0.2694	0.0438	0.0488	0.0126	0.0000	0.0000	0.0000	0.0000	0.4111	1.9455	0.0000	0.6208	0.0000	0.0000	0.0000	0.0000
10/22/2019 00:00	1101.6	0.0	1121.0	0.0		1374.2	0.6655	81.9275	12.2703	1.6903	0.3492	0.3311	0.0580	0.0642	0.0160	0.0000	0.0000	0.0000	0.0000	0.4120	1.9733	0.0000	0.9082	0.0000	0.0000	0.0000	0.0000
10/23/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.1600	12.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/24/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.1600	12.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/25/2019 00:00	1096.8	0.0	1116.1	0.0		1372.3	0.6614	82.4860	11.9562	1.6269	0.3000	0.2957	0.0514	0.0577	0.0147	0.0000	0.0000	0.0000	0.0000	0.4344	1.9277	0.0000	0.8494	0.0000	0.0000	0.0000	0.0000
10/26/2019 00:00	1086.3	0.0	1105.3	0.0		1367.4	0.6533	83.4844	11.5663	1.5106	0.0720	0.2284	0.0393	0.0437	0.0109	0.0000	0.0000	0.0000	0.0000	0.4791	1.9152	0.0000	0.6501	0.0000	0.0000	0.0000	0.0000
10/27/2019 00:00	1075.9	0.0	1094.7	0.0		1363.4	0.6447	84.9083	10.4110	1.5204	0.0592	0.1588	0.0212	0.0219	0.0053	0.0000	0.0000	0.0000	0.0000	0.6453	1.7632	0.0000	0.4853	0.0000	0.0000	0.0000	0.0000
10/28/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.2911	10.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/29/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.2911	10.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/30/2019 00:00	1079.3	0.0	1098.3	0.0		1364.6	0.6478	84.2908	10.6258	1.6026	0.1047	0.2030	0.0308	0.0317	0.0075	0.0000	0.0000	0.0000	0.0000	0.6220	1.6915	0.0000	0.7897	0.0000	0.0000	0.0000	0.0000
10/31/2019 00:00	1083.7	0.0	1102.7	0.0		1368.0	0.6497	84.0211	11.1397	1.4521	0.1392	0.2133	0.0341	0.0354	0.0084	0.0000	0.0000	0.0000	0.0000	0.4957	1.7576	0.0000	0.7034	0.0000	0.0000	0.0000	0.0000
Flow Weighted Average:	1088.3	0.0	1107.4	0.0			0.6541	83.4631	11.3334	1.6194	0.1466	0.2585	0.0426	0.0463	0.0118	0.0000	0.0000	0.0000	0.0000	0.5038	1.8059	0.0000	0.7686	0.0000	0.0000	0.0000	0.0000



Chromatograph Report

from Contract Day 10/01/2019 to Contract Day 10/31/2019

Station ID: CHMBRS CMP

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
10/01/2019 00:00	1089.8	0.0	1108.9	0.0		1370.3	0.6549	83.5567	11.2576	1.6209	0.1792	0.2764	0.0448	0.0492	0.0124	0.0000	0.0000	0.0000	0.0000	0.5454	1.8362	0.0000	0.6212	0.0000	0.0000	0.0000	0.0000
10/02/2019 00:00	1094.9	0.0	1114.1	0.0		1371.5	0.6598	83.0739	11.4433	1.5948	0.3521	0.3058	0.0515	0.0572	0.0150	0.0000	0.0000	0.0000	0.0000	0.5153	1.9410	0.0000	0.6502	0.0000	0.0000	0.0000	0.0000
10/03/2019 00:00	1094.9	0.0	1114.1	0.0		1375.7	0.6558	83.5662	11.1654	1.8529	0.2197	0.2767	0.0405	0.0431	0.0107	0.0000	0.0000	0.0000	0.0000	0.5324	1.7181	0.0000	0.5743	0.0000	0.0000	0.0000	0.0000
10/04/2019 00:00	1087.8	0.0	1106.8	0.0		1369.3	0.6534	83.8046	10.7430	1.8652	0.1270	0.2875	0.0422	0.0454	0.0115	0.0000	0.0000	0.0000	0.0000	0.5294	1.7642	0.0000	0.7799	0.0000	0.0000	0.0000	0.0000
10/05/2019 00:00	1084.1	0.0	1103.1	0.0		1367.2	0.6509	84.1917	10.4158	1.8042	0.1308	0.2829	0.0388	0.0421	0.0112	0.0000	0.0000	0.0000	0.0000	0.5454	1.7417	0.0000	0.7954	0.0000	0.0000	0.0000	0.0000
10/06/2019 00:00	1091.7	0.0	1110.9	0.0		1371.7	0.6558	83.4597	11.0973	1.8431	0.1499	0.3009	0.0480	0.0521	0.0130	0.0000	0.0000	0.0000	0.0000	0.5170	1.7856	0.0000	0.7334	0.0000	0.0000	0.0000	0.0000
10/07/2019 00:00	1094.6	0.0	1113.8	0.0		1372.8	0.6583	83.0801	11.3190	1.8761	0.1691	0.3245	0.0533	0.0586	0.0149	0.0000	0.0000	0.0000	0.0000	0.4686	1.8115	0.0000	0.8243	0.0000	0.0000	0.0000	0.0000
10/08/2019 00:00	1093.0	0.0	1112.2	0.0		1371.5	0.6577	83.0844	11.3239	1.8602	0.1195	0.3314	0.0539	0.0593	0.0151	0.0000	0.0000	0.0000	0.0000	0.4752	1.8177	0.0000	0.8595	0.0000	0.0000	0.0000	0.0000
10/09/2019 00:00	1089.8	0.0	1109.0	0.0		1369.9	0.6553	83.3646	11.1558	1.7556	0.1181	0.3191	0.0538	0.0594	0.0150	0.0000	0.0000	0.0000	0.0000	0.4892	1.7717	0.0000	0.8977	0.0000	0.0000	0.0000	0.0000
10/10/2019 00:00	1086.8	0.0	1105.8	0.0		1367.3	0.6541	83.4958	11.1600	1.6372	0.1296	0.2875	0.0466	0.0487	0.0128	0.0000	0.0000	0.0000	0.0000	0.5223	1.8300	0.0000	0.8294	0.0000	0.0000	0.0000	0.0000
10/11/2019 00:00	1089.3	0.0	1108.5	0.0		1368.2	0.6564	83.2605	11.2004	1.6942	0.1847	0.3038	0.0513	0.0553	0.0137	0.0000	0.0000	0.0000	0.0000	0.5008	1.8652	0.0000	0.8701	0.0000	0.0000	0.0000	0.0000
10/12/2019 00:00	1091.1	0.0	1110.3	0.0		1371.2	0.6556	83.1197	11.6179	1.6212	0.1237	0.2941	0.0498	0.0548	0.0142	0.0000	0.0000	0.0000	0.0000	0.4837	1.7657	0.0000	0.8552	0.0000	0.0000	0.0000	0.0000
10/13/2019 00:00	1093.4	0.0	1112.6	0.0		1373.0	0.6567	82.9440	11.7218	1.6648	0.1260	0.3124	0.0541	0.0601	0.0159	0.0000	0.0000	0.0000	0.0000	0.4447	1.7365	0.0000	0.9196	0.0000	0.0000	0.0000	0.0000
10/14/2019 00:00	1093.0	0.0	1112.2	0.0		1372.7	0.6565	83.0080	11.6784	1.6423	0.1277	0.3173	0.0550	0.0609	0.0162	0.0000	0.0000	0.0000	0.0000	0.4325	1.7475	0.0000	0.9143	0.0000	0.0000	0.0000	0.0000
10/15/2019 00:00	1091.0	0.0	1110.1	0.0		1371.8	0.6549	83.4075	11.3098	1.6573	0.1511	0.3052	0.0525	0.0571	0.0154	0.0000	0.0000	0.0000	0.0000	0.4484	1.7511	0.0000	0.8448	0.0000	0.0000	0.0000	0.0000
10/16/2019 00:00	1096.0	0.0	1115.2	0.0		1373.5	0.6592	82.9086	11.5969	1.6659	0.3109	0.2919	0.0517	0.0576	0.0155	0.0000	0.0000	0.0000	0.0000	0.4398	1.8290	0.0000	0.8322	0.0000	0.0000	0.0000	0.0000
10/17/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/18/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/19/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/20/2019 00:00	1094.7	0.0	1113.9	0.0		1371.5	0.6596	82.4970	12.2375	1.6183	0.1088	0.2841	0.0473	0.0529	0.0135	0.0000	0.0000	0.0000	0.0000	0.4114	1.9539	0.0000	0.7755	0.0000	0.0000	0.0000	0.0000
10/21/2019 00:00	1094.1	0.0	1113.3	0.0		1372.4	0.6580	82.7640	12.2585	1.5482	0.0773	0.2694	0.0438	0.0488	0.0126	0.0000	0.0000	0.0000	0.0000	0.4111	1.9455	0.0000	0.6208	0.0000	0.0000	0.0000	0.0000
10/23/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.1600	12.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/24/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.1600	12.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/25/2019 00:00	1098.3	0.0	1117.6	0.0		1372.8	0.6628	82.1804	12.1797	1.6862	0.2574	0.3057	0.0535	0.0602	0.0155	0.0000	0.0000	0.0000	0.0000	0.4132	1.9376	0.0000	0.9105	0.0000	0.0000	0.0000	0.0000
10/26/2019 00:00	1086.4	0.0	1105.4	0.0		1367.5	0.6534	83.4703	11.5804	1.5108	0.0723	0.2286	0.0394	0.0438	0.0109	0.0000	0.0000	0.0000	0.0000	0.4768	1.9166	0.0000	0.6500	0.0000	0.0000	0.0000	0.0000
10/27/2019 00:00	1075.7	0.0	1094.5	0.0		1363.3	0.6445	84.9426	10.3811	1.5210	0.0580	0.1582	0.0211	0.0217	0.0053	0.0000	0.0000	0.0000	0.0000	0.6500	1.7575	0.0000	0.4835	0.0000	0.0000	0.0000	0.0000
10/28/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.2911	10.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/29/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.2911	10.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/31/2019 00:00	1083.8	0.0	1102.8	0.0		1368.0	0.6498	84.0017	11.1525	1.4509	0.1397	0.2145	0.0344	0.0357	0.0084	0.0000	0.0000	0.0000	0.0000	0.4930	1.7598	0.0000	0.7094	0.0000	0.0000	0.0000	0.0000
Flow Weighted Average:	1082.3	0.0	1101.2	0.0		0.6496	84.1502	10.9283	1.5412	0.1095	0.2092	0.0324	0.0343	0.0084	0.0000	0.0000	0.0000	0.0000	0.0000	0.5603	1.7952	0.0000	0.6309	0.0000	0.0000	0.0000	0.0000



PUBLIC SERVICE OF COLORADO

11/4/2019 10:31 AM

Micah Zamora

Chromatograph Report

from Contract Day 10/01/2019 to Contract Day 10/31/2019

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
10/01/2019 00:00	1087.7	0.0	1106.7	0.0		1369.2	0.6534	83.792311	0.0594	1.6461	0.1629	0.2560	0.0404	0.0439	0.0110	0.0000	0.0000	0.0000	0.0000	0.5760	1.8217	0.0000	0.5903	0.0000	0.0000	0.0000	0.0000
10/02/2019 00:00	1088.7	0.0	1107.8	0.0		1369.8	0.6540	83.738111	1.1569	1.5936	0.1931	0.2582	0.0413	0.0453	0.0116	0.0000	0.0000	0.0000	0.0000	0.5500	1.8463	0.0000	0.5657	0.0000	0.0000	0.0000	0.0000
10/03/2019 00:00	1089.9	0.0	1109.0	0.0		1370.3	0.6549	83.706510	0.9847	1.6166	0.2982	0.2678	0.0434	0.0477	0.0126	0.0000	0.0000	0.0000	0.0000	0.5718	1.8070	0.0000	0.6436	0.0000	0.0000	0.0000	0.0000
10/04/2019 00:00	1089.7	0.0	1108.8	0.0		1371.0	0.6541	83.734910	0.8899	1.8831	0.1300	0.2789	0.0404	0.0434	0.0109	0.0000	0.0000	0.0000	0.0000	0.5320	1.7647	0.0000	0.6918	0.0000	0.0000	0.0000	0.0000
10/05/2019 00:00	1088.9	0.0	1108.0	0.0		1369.5	0.6546	83.675210	0.8324	1.8584	0.1404	0.3005	0.0437	0.0475	0.0124	0.0000	0.0000	0.0000	0.0000	0.5259	1.8007	0.0000	0.7629	0.0000	0.0000	0.0000	0.0000
10/06/2019 00:00	1094.5	0.0	1113.7	0.0		1373.7	0.6572	83.342911	1.1920	1.9117	0.1772	0.2972	0.0462	0.0503	0.0125	0.0000	0.0000	0.0000	0.0000	0.5073	1.7956	0.0000	0.6670	0.0000	0.0000	0.0000	0.0000
10/07/2019 00:00	1094.6	0.0	1113.8	0.0		1373.7	0.6574	83.291211	1.2399	1.8645	0.1806	0.3119	0.0496	0.0543	0.0136	0.0000	0.0000	0.0000	0.0000	0.4801	1.7939	0.0000	0.7204	0.0000	0.0000	0.0000	0.0000
10/08/2019 00:00	1091.8	0.0	1111.0	0.0		1370.8	0.6569	83.201511	1.1937	1.8423	0.1107	0.3429	0.0562	0.0621	0.0158	0.0000	0.0000	0.0000	0.0000	0.4623	1.8043	0.0000	0.9081	0.0000	0.0000	0.0000	0.0000
10/09/2019 00:00	1088.0	0.0	1107.2	0.0		1368.9	0.6542	83.484611	1.1037	1.6987	0.1231	0.3032	0.0515	0.0556	0.0142	0.0000	0.0000	0.0000	0.0000	0.5161	1.7616	0.0000	0.8876	0.0000	0.0000	0.0000	0.0000
10/10/2019 00:00	1086.8	0.0	1105.9	0.0		1367.4	0.6541	83.505611	1.1518	1.6402	0.1298	0.2879	0.0466	0.0487	0.0128	0.0000	0.0000	0.0000	0.0000	0.5227	1.8281	0.0000	0.8258	0.0000	0.0000	0.0000	0.0000
10/11/2019 00:00	1088.5	0.0	1107.7	0.0		1368.4	0.6552	83.457811	0.0511	1.7102	0.1778	0.2995	0.0497	0.0532	0.0130	0.0000	0.0000	0.0000	0.0000	0.5125	1.8232	0.0000	0.8523	0.0000	0.0000	0.0000	0.0000
10/12/2019 00:00	1091.0	0.0	1110.2	0.0		1371.2	0.6556	83.127311	1.6114	1.6204	0.1238	0.2939	0.0498	0.0548	0.0142	0.0000	0.0000	0.0000	0.0000	0.4841	1.7642	0.0000	0.8562	0.0000	0.0000	0.0000	0.0000
10/13/2019 00:00	1093.4	0.0	1112.6	0.0		1372.9	0.6567	82.949711	1.7156	1.6658	0.1264	0.3123	0.0541	0.0601	0.0159	0.0000	0.0000	0.0000	0.0000	0.4456	1.7363	0.0000	0.9183	0.0000	0.0000	0.0000	0.0000
10/14/2019 00:00	1092.9	0.0	1112.1	0.0		1372.7	0.6564	83.021211	1.6669	1.6413	0.1277	0.3170	0.0550	0.0609	0.0162	0.0000	0.0000	0.0000	0.0000	0.4328	1.7471	0.0000	0.9139	0.0000	0.0000	0.0000	0.0000
10/15/2019 00:00	1091.0	0.0	1110.2	0.0		1371.8	0.6549	83.402311	1.3114	1.6586	0.1527	0.3050	0.0525	0.0571	0.0154	0.0000	0.0000	0.0000	0.0000	0.4484	1.7530	0.0000	0.8437	0.0000	0.0000	0.0000	0.0000
10/16/2019 00:00	1095.9	0.0	1115.1	0.0		1373.5	0.6592	82.917711	1.5901	1.6657	0.3097	0.2917	0.0516	0.0576	0.0155	0.0000	0.0000	0.0000	0.0000	0.4407	1.8284	0.0000	0.8313	0.0000	0.0000	0.0000	0.0000
10/17/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.180011	1.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/18/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.180011	1.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/19/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.180011	1.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/20/2019 00:00	1094.7	0.0	1113.9	0.0		1371.5	0.6597	82.491312	1.2397	1.6196	0.1087	0.2844	0.0473	0.0529	0.0135	0.0000	0.0000	0.0000	0.0000	0.4113	1.9540	0.0000	0.7772	0.0000	0.0000	0.0000	0.0000
10/21/2019 00:00	1094.1	0.0	1113.3	0.0		1372.4	0.6580	82.764012	1.2585	1.5482	0.0773	0.2694	0.0438	0.0488	0.0126	0.0000	0.0000	0.0000	0.0000	0.4111	1.9455	0.0000	0.6208	0.0000	0.0000	0.0000	0.0000
10/23/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.160012	1.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/24/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.160012	1.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/25/2019 00:00	1093.5	0.0	1112.7	0.0		1370.9	0.6588	82.961611	1.6007	1.6097	0.3095	0.2661	0.0449	0.0496	0.0122	0.0000	0.0000	0.0000	0.0000	0.4786	1.9092	0.0000	0.7579	0.0000	0.0000	0.0000	0.0000
10/26/2019 00:00	1085.3	0.0	1104.2	0.0		1367.8	0.6517	83.702911	1.5673	1.4312	0.0703	0.2043	0.0353	0.0393	0.0099	0.0000	0.0000	0.0000	0.0000	0.4808	1.8942	0.0000	0.5644	0.0000	0.0000	0.0000	0.0000
10/27/2019 00:00	1075.9	0.0	1094.7	0.0		1363.4	0.6447	84.909910	1.4092	1.5214	0.0590	0.1589	0.0212	0.0219	0.0053	0.0000	0.0000	0.0000	0.0000	0.6462	1.7620	0.0000	0.4849	0.0000	0.0000	0.0000	0.0000
10/28/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.291110	1.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/29/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.291110	1.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/31/2019 00:00	1083.7	0.0	1102.7	0.0		1367.8	0.6499	83.960011	1.2323	1.4169	0.1359	0.2112	0.0344	0.0359	0.0086	0.0000	0.0000	0.0000	0.0000	0.4882	1.7809	0.0000	0.6957	0.0000	0.0000	0.0000	0.0000
Flow Weighted Average:	1090.3	0.0	1109.4	0.0			0.6553	83.282511	1.4598	1.6525	0.1383	0.2760	0.0462	0.0506	0.0133	0.0000	0.0000	0.0000	0.0000	0.4820	1.8082	0.0000	0.7906	0.0000	0.0000	0.0000	0.0000



PUBLIC SERVICE OF COLORADO

11/4/2019 10:31 AM

Micah Zamora

Chromatograph Report

from Contract Day 10/01/2019 to Contract Day 10/31/2019

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
10/01/2019 00:00	1088.1	0.0	1107.1	0.0		1369.3	0.6537	83.7486	11.0885	1.6453	0.1661	0.2594	0.0411	0.0447	0.0113	0.0000	0.0000	0.0000	0.0000	0.5717	1.8243	0.0000	0.5989	0.0000	0.0000	0.0000	0.0000
10/02/2019 00:00	1089.9	0.0	1108.9	0.0		1370.2	0.6550	83.6128	11.2108	1.6051	0.2181	0.2648	0.0427	0.0469	0.0121	0.0000	0.0000	0.0000	0.0000	0.5450	1.8611	0.0000	0.5806	0.0000	0.0000	0.0000	0.0000
10/03/2019 00:00	1093.5	0.0	1112.6	0.0		1374.2	0.6556	83.6065	11.1188	1.7560	0.2643	0.2714	0.0414	0.0447	0.0114	0.0000	0.0000	0.0000	0.0000	0.5467	1.7355	0.0000	0.6034	0.0000	0.0000	0.0000	0.0000
10/04/2019 00:00	1089.0	0.0	1108.1	0.0		1370.1	0.6541	83.7111	10.8438	1.8749	0.1267	0.2892	0.0430	0.0463	0.0117	0.0000	0.0000	0.0000	0.0000	0.5303	1.7691	0.0000	0.7539	0.0000	0.0000	0.0000	0.0000
10/05/2019 00:00	1089.2	0.0	1108.3	0.0		1369.9	0.6545	83.6977	10.8053	1.8748	0.1340	0.3095	0.0434	0.0474	0.0127	0.0000	0.0000	0.0000	0.0000	0.5119	1.7886	0.0000	0.7747	0.0000	0.0000	0.0000	0.0000
10/06/2019 00:00	1092.9	0.0	1112.1	0.0		1372.5	0.6565	83.4026	11.1444	1.8705	0.1575	0.3013	0.0477	0.0518	0.0130	0.0000	0.0000	0.0000	0.0000	0.5143	1.7886	0.0000	0.7083	0.0000	0.0000	0.0000	0.0000
10/07/2019 00:00	1095.2	0.0	1114.5	0.0		1373.1	0.6587	83.0283	11.3580	1.8803	0.1765	0.3266	0.0536	0.0590	0.0151	0.0000	0.0000	0.0000	0.0000	0.4680	1.8166	0.0000	0.8179	0.0000	0.0000	0.0000	0.0000
10/08/2019 00:00	1092.7	0.0	1111.9	0.0		1371.3	0.6575	83.1123	11.2782	1.8625	0.1170	0.3362	0.0549	0.0604	0.0154	0.0000	0.0000	0.0000	0.0000	0.4695	1.8132	0.0000	0.8804	0.0000	0.0000	0.0000	0.0000
10/09/2019 00:00	1088.3	0.0	1107.5	0.0		1369.1	0.6544	83.4664	11.1127	1.7083	0.1222	0.3057	0.0518	0.0562	0.0144	0.0000	0.0000	0.0000	0.0000	0.5120	1.7641	0.0000	0.8862	0.0000	0.0000	0.0000	0.0000
10/10/2019 00:00	1086.8	0.0	1105.9	0.0		1367.4	0.6541	83.5065	11.1509	1.6404	0.1297	0.2879	0.0466	0.0487	0.0128	0.0000	0.0000	0.0000	0.0000	0.5228	1.8281	0.0000	0.8257	0.0000	0.0000	0.0000	0.0000
10/11/2019 00:00	1088.6	0.0	1107.8	0.0		1368.4	0.6554	83.4358	11.0616	1.7125	0.1789	0.3004	0.0499	0.0534	0.0130	0.0000	0.0000	0.0000	0.0000	0.5120	1.8281	0.0000	0.8543	0.0000	0.0000	0.0000	0.0000
10/12/2019 00:00	1091.0	0.0	1110.2	0.0		1371.2	0.6556	83.1273	11.6113	1.6204	0.1238	0.2939	0.0498	0.0548	0.0142	0.0000	0.0000	0.0000	0.0000	0.4842	1.7642	0.0000	0.8562	0.0000	0.0000	0.0000	0.0000
10/13/2019 00:00	1093.4	0.0	1112.6	0.0		1373.0	0.6567	82.9488	11.7164	1.6659	0.1264	0.3123	0.0541	0.0601	0.0159	0.0000	0.0000	0.0000	0.0000	0.4455	1.7363	0.0000	0.9183	0.0000	0.0000	0.0000	0.0000
10/14/2019 00:00	1092.7	0.0	1111.9	0.0		1372.5	0.6563	83.0399	11.6489	1.6372	0.1280	0.3172	0.0551	0.0610	0.0163	0.0000	0.0000	0.0000	0.0000	0.4340	1.7456	0.0000	0.9168	0.0000	0.0000	0.0000	0.0000
10/15/2019 00:00	1091.0	0.0	1110.2	0.0		1371.8	0.6549	83.4024	11.3112	1.6587	0.1528	0.3050	0.0525	0.0571	0.0154	0.0000	0.0000	0.0000	0.0000	0.4484	1.7530	0.0000	0.8436	0.0000	0.0000	0.0000	0.0000
10/16/2019 00:00	1095.9	0.0	1115.1	0.0		1373.5	0.6592	82.9173	11.5904	1.6658	0.3096	0.2917	0.0516	0.0576	0.0155	0.0000	0.0000	0.0000	0.0000	0.4407	1.8285	0.0000	0.8314	0.0000	0.0000	0.0000	0.0000
10/17/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/18/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/19/2019 00:00	1091.5	0.0	1110.6	0.0		1371.4	0.6558	83.1800	11.5352	1.7275	0.1201	0.2672	0.0447	0.0497	0.0134	0.0000	0.0000	0.0000	0.0000	0.4736	1.7973	0.0000	0.7913	0.0000	0.0000	0.0000	0.0000
10/20/2019 00:00	1094.7	0.0	1113.9	0.0		1371.5	0.6597	82.4918	12.2397	1.6195	0.1086	0.2844	0.0473	0.0529	0.0135	0.0000	0.0000	0.0000	0.0000	0.4113	1.9539	0.0000	0.7771	0.0000	0.0000	0.0000	0.0000
10/21/2019 00:00	1094.1	0.0	1113.3	0.0		1372.4	0.6580	82.7640	12.2585	1.5482	0.0773	0.2694	0.0438	0.0488	0.0126	0.0000	0.0000	0.0000	0.0000	0.4111	1.9455	0.0000	0.6208	0.0000	0.0000	0.0000	0.0000
10/22/2019 00:00	1101.6	0.0	1121.0	0.0		1374.2	0.6655	81.9275	12.2703	1.6903	0.3492	0.3311	0.0580	0.0642	0.0160	0.0000	0.0000	0.0000	0.0000	0.4120	1.9733	0.0000	0.9082	0.0000	0.0000	0.0000	0.0000
10/23/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.1600	12.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/24/2019 00:00	1097.1	0.0	1116.4	0.0		1371.1	0.6629	82.1600	12.1191	1.7155	0.2015	0.3328	0.0559	0.0621	0.0159	0.0000	0.0000	0.0000	0.0000	0.4103	1.9847	0.0000	0.9422	0.0000	0.0000	0.0000	0.0000
10/25/2019 00:00	1098.0	0.0	1117.3	0.0		1372.7	0.6625	82.2515	12.1277	1.6739	0.2661	0.3032	0.0530	0.0596	0.0153	0.0000	0.0000	0.0000	0.0000	0.4183	1.9349	0.0000	0.8966	0.0000	0.0000	0.0000	0.0000
10/26/2019 00:00	1086.3	0.0	1105.3	0.0		1367.5	0.6533	83.4841	11.5786	1.5066	0.0721	0.2273	0.0392	0.0436	0.0109	0.0000	0.0000	0.0000	0.0000	0.4772	1.9151	0.0000	0.6454	0.0000	0.0000	0.0000	0.0000
10/27/2019 00:00	1075.7	0.0	1094.5	0.0		1363.3	0.6446	84.9349	10.3877	1.5211	0.0583	0.1584	0.0211	0.0218	0.0053	0.0000	0.0000	0.0000	0.0000	0.6491	1.7587	0.0000	0.4838	0.0000	0.0000	0.0000	0.0000
10/28/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.2911	10.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/29/2019 00:00	1073.2	0.0	1091.9	0.0		1362.1	0.6426	85.2911	10.0421	1.5467	0.0491	0.1515	0.0199	0.0194	0.0046	0.0000	0.0000	0.0000	0.0000	0.7039	1.7193	0.0000	0.4524	0.0000	0.0000	0.0000	0.0000
10/30/2019 00:00	1079.3	0.0	1098.3	0.0		1364.6	0.6478	84.2908	10.6258	1.6026	0.1047	0.2030	0.0308	0.0317	0.0075	0.0000	0.0000	0.0000	0.0000	0.6220	1.6915	0.0000	0.7897	0.0000	0.0000	0.0000	0.0000
10/31/2019 00:00	1083.7	0.0	1102.7	0.0		1368.0	0.6498	83.9990	11.1590	1.4477	0.1393	0.2142	0.0344	0.0357	0.0084	0.0000	0.0000	0.0000	0.0000	0.4926	1.7615	0.0000	0.7080	0.0000	0.0000	0.0000	0.0000
Flow Weighted Average:	1087.1	0.0	1106.1	0.0			0.6531	83.6215	11.2370	1.6080	0.1367	0.2481	0.0403	0.0436	0.0111	0.0000	0.0000	0.0000	0.0000	0.5182	1.8073	0.0000	0.7281	0.0000	0.0000	0.0000	0.0000