

**GROUNDWATER LEVELS
in the
CAMP CREEK
DESIGNATED GROUNDWATER BASIN**

2018



by
Kevin C. Donegan



COLORADO
Division of Water Resources

Department of Natural Resources

John W. Hickenlooper
Governor

Kevin G. Rein
State Engineer

Robert W. Randall
Executive Director, DNR

Matthew A. Sares
Chief, Hydrogeology Section

**CAMP CREEK DESIGNATED GROUNDWATER BASIN
WATER LEVEL MEASUREMENTS
2018**

This report contains the basic groundwater level data collected from wells in the Camp Creek Designated Groundwater Basin during the period from 1993 through 2018. Acquisition and publication of this information is a cooperative effort between the well owners and the Colorado Division of Water Resources. The project is part of a statewide groundwater level monitoring program funded by Senate Bill 200 (1987 legislative session). This legislation directed that a portion of the fees collected for water well permit applications be used for the establishment of a program to monitor water-level trends throughout the state.

The report contains water level measurements for nine wells measured March 8, 2018. The wells are listed by name in numerical order and the locations of those wells in the geographic context of the designated basin are shown on the following map. All of the Camp Creek wells that are monitored are located in Townships 2 and 3 North, Range 54 West of the 6th P.M. Depth to groundwater, below land surface, ranged from 14 to 39 feet. Only two wells, CC-01 and CC-02, in the upper reaches of Camp Creek had water levels less than 20 feet below ground surface. CC-10 remains inaccessible, but will continue to be checked each year.

Tabular and graphical data are presented for each well for the available period of record. Analyses of changes in the water level in the aquifer are complicated by unknown pumping schedules.

Groundwater levels in wells in the Camp Creek Designated Basin are within one foot of the 2017 measurement except for CC-05 which was almost 2 feet lower than last year's measurement. Basin-wide water levels have declined approximately 8 feet since 1993 when the Division of Water Resources began the monitoring program. The overall declining trend shows signs of leveling-off in the past 10 years, even showing a slight upturn in several wells over the past 5 years. Of particular note is CC-01, at the upper end of the basin, which has had an increasing trend since the early 2000's and the water level is significantly higher than at the beginning of this monitoring program (14 ft vs. 19 ft below ground surface).

An electronic copy of this report is available on the Division of Water Resources website:
<http://water.state.co.us/groundwater/Levels/Pages/HydroGeo.aspx>

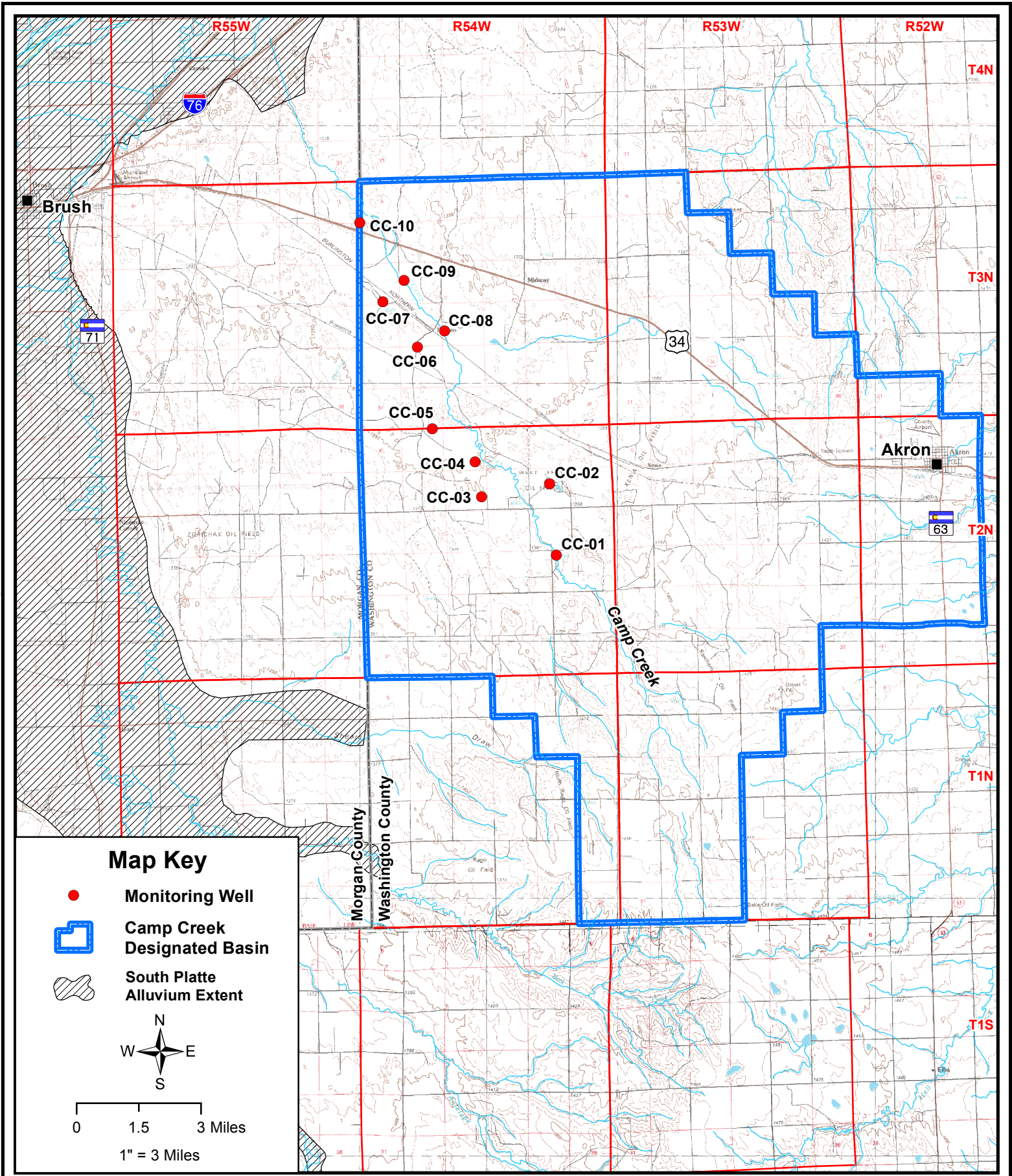
The direct link to the Camp Creek Publication Area on the CDSS webpage:
<https://dnrweb.state.co.us/cdss/GroundWater/WaterLevels/Search?submitButton=Submit&SelectedPublicationAreaName=CAMP%20CREEK&SelectedAquiferName=All>

Additionally, all groundwater level data may be accessed and exported using the tools available on the Colorado Decision Support System website:
<http://dnrweb.state.co.us/cdss/GroundWater/WaterLevels/Search>

and the Colorado Information Marketplace HydroBase Bulk Data Exporter:
<https://data.colorado.gov/Water/DWR-Well-Water-Level/hfwh-wsgi/data>

or the Colorado Decision Support System MapViewer:
<http://water.state.co.us/DataMaps/GISandMaps/MapViewer/Pages/FAQ.aspx>

If you have any questions regarding groundwater and the information in this report, please contact the Groundwater Information Desk at (303) 866-3587 or through AskDWR,
http://www.dwr.state.co.us/OnlineTools/AskDWR.aspx?topic_num=31&office_num=8



COLORADO
 Division of Water Resources
 Department of Natural Resources

State of Colorado -- Division of Water Resources
**Camp Creek Designated Basin
 Monitoring Well Network**



GROUNDWATER DETAILS

Well Name: CC-02
Permit Number: 2297-F
WDID:
Data Source: DWR

Location Number: SB00205411ACC
USGS Site ID:
Applicant/Contact: MARGARET GROOMS

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
2140 N	2550 E	SW	SW	NE	11	2.0 N	54.0 W	S	637345.0	4446264.5	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

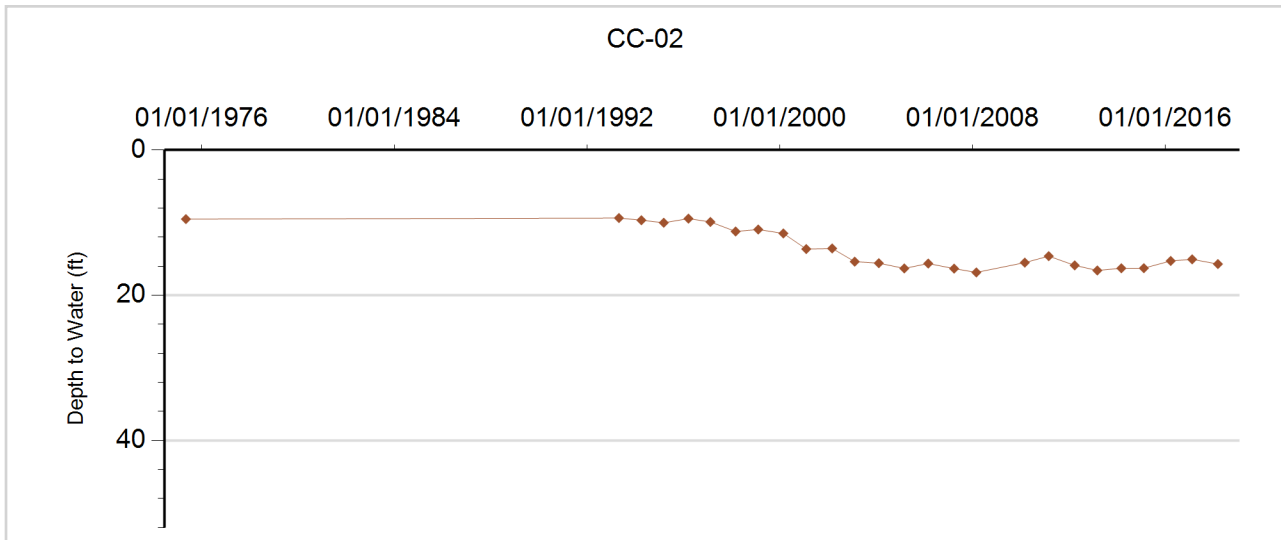
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018	15.69	4466.31	0.65
02/10/2017	15.04	4466.96	-0.22
03/22/2016	15.26	4466.74	-1.00
02/09/2015	16.26	4465.74	-0.01
03/06/2014	16.27	4465.73	-0.30
03/06/2013	16.57	4465.43	0.70
03/28/2012	15.87	4466.13	1.27
03/01/2011	14.60	4467.40	-0.89
03/03/2010	15.49	4466.51	-1.35
02/27/2008	16.84	4465.16	0.52

Construction Information

Surface Elevation (ft): 4482.00
 Well Depth (ft): 52.00
 Depth to Base of Grout (ft): 10
 Depth to Top of Perforated Casing (ft): 13
 Depth to Bottom of Perforated Casing (ft): 52
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 05/10/1975 End Date: 03/08/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: CC-03
Permit Number: 20791-F
WDID:
Data Source: DWR

Location Number: SB00205409DAD
USGS Site ID:
Applicant/Contact: ED BASLER

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
1690 S	680 E	SE	NE	SE	9	2.0 N	54.0 W	S	634691.0	4445757.5	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin: CAMP CREEK
 Management District:

Time Series Data - Ten Most Recent Reportings

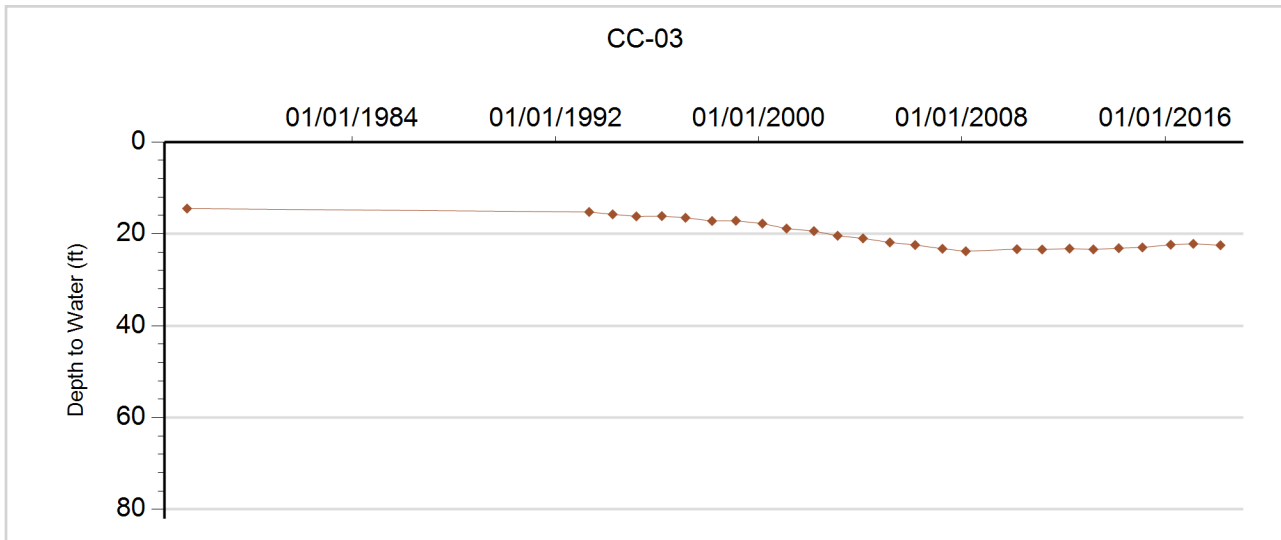
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018	22.48	4427.52	0.30
02/10/2017	22.18	4427.82	-0.19
03/22/2016	22.37	4427.63	-0.59
02/09/2015	22.96	4427.04	-0.17
03/06/2014	23.13	4426.87	-0.26
03/06/2013	23.39	4426.61	0.18
03/28/2012	23.21	4426.79	-0.20
03/01/2011	23.41	4426.59	0.07
03/03/2010	23.34	4426.66	-0.45
02/27/2008	23.79	4426.21	0.54

Construction Information

Surface Elevation (ft): 4450.00
 Well Depth (ft): 82.00
 Depth to Base of Grout (ft): 10
 Depth to Top of Perforated Casing (ft): 30
 Depth to Bottom of Perforated Casing (ft): 82
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 07/01/1977 End Date: 03/08/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: CC-04
Permit Number: 19358-FP
WDID:
Data Source: DWR

Location Number: SB00205404DDB
USGS Site ID:
Applicant/Contact: SPENCE RULE

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
930 S	1310 E	NW	SE	SE	4	2.0 N	54.0 W	S	634443.1	4447137.5	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

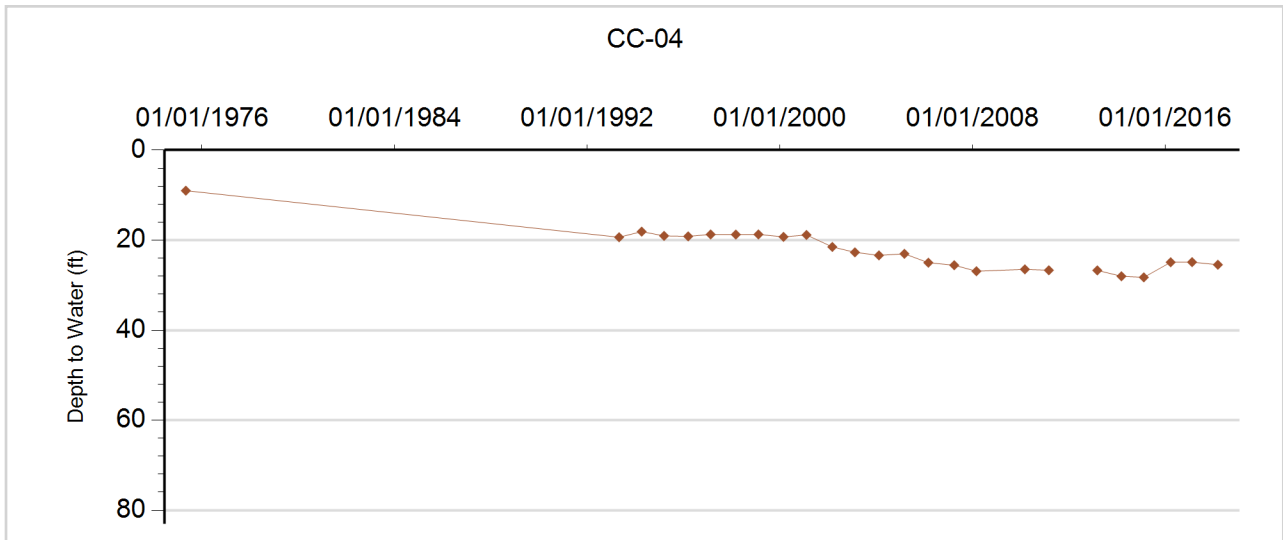
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018	25.46	4416.54	0.58
02/10/2017	24.88	4417.12	-0.03
03/22/2016	24.91	4417.09	-3.35
02/09/2015	28.26	4413.74	0.24
03/06/2014	28.02	4413.98	1.31
03/06/2013	26.71	4415.29	
03/28/2012			
03/01/2011	26.69	4415.31	0.21
03/03/2010	26.48	4415.52	-0.42
02/27/2008	26.90	4415.10	1.33

Construction Information

Surface Elevation (ft): 4442.00
 Well Depth (ft): 83.00
 Depth to Base of Grout (ft): 10
 Depth to Top of Perforated Casing (ft): 33
 Depth to Bottom of Perforated Casing (ft): 83
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 05/02/1975 End Date: 03/08/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: CC-05
Permit Number: 25969-FP
WDID:
Data Source: DWR

Location Number: SB00205405ABB
USGS Site ID:
Applicant/Contact: SPENCE RULE

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
20 N	1310 E	NW	NW	NE	5	2.0 N	54.0 W	S	632777.1	4448422.5	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

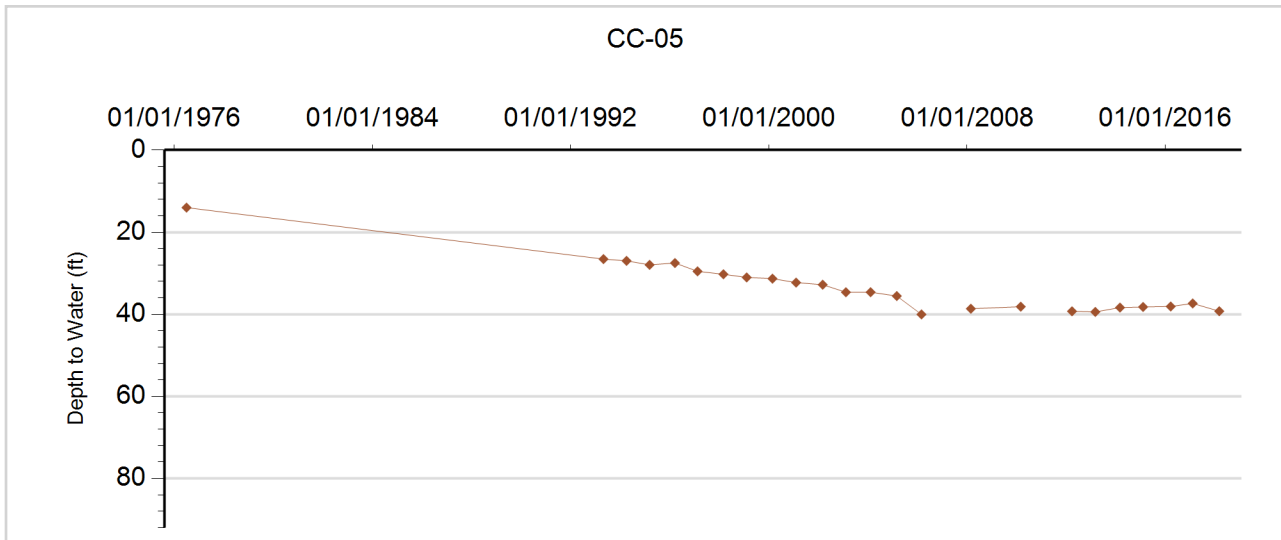
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018	39.25	4374.75	1.89
02/10/2017	37.36	4376.64	-0.74
03/22/2016	38.10	4375.90	-0.12
02/09/2015	38.22	4375.78	-0.14
03/06/2014	38.36	4375.64	-1.07
03/06/2013	39.43	4374.57	0.16
03/28/2012	39.27	4374.73	
03/01/2011			
03/03/2010	38.15	4375.85	-0.50
02/27/2008	38.65	4375.35	

Construction Information

Surface Elevation (ft): 4414.00
 Well Depth (ft): 92.00
 Depth to Base of Grout (ft): 10
 Depth to Top of Perforated Casing (ft): 26
 Depth to Bottom of Perforated Casing (ft): 91
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 06/29/1976 End Date: 03/08/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: CC-07
Permit Number: 21077-S
WDID: 0108742
Data Source: DWR

Location Number: SB00305418DCC
USGS Site ID:
Applicant/Contact: VAUGHEY & VAUGHEY

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
370 S	2040 E	SW	SW	SE	18	3.0 N	54.0 W	S	630893.0	4453342.0	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin: CAMP CREEK
 Management District:

Time Series Data - Ten Most Recent Reportings

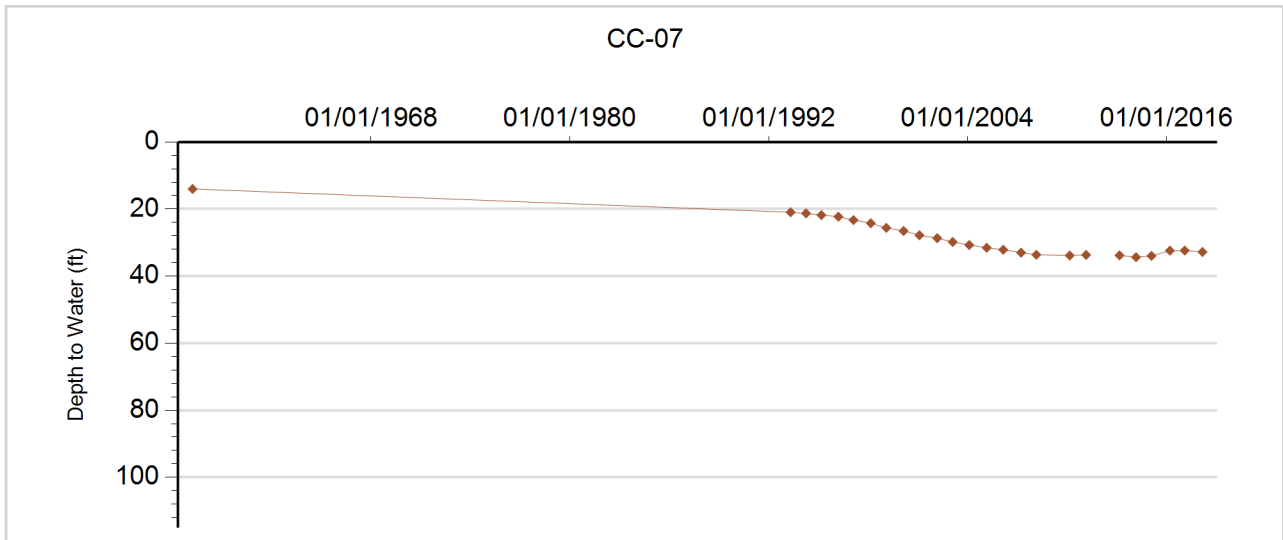
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018	32.79	4342.21	0.43
02/10/2017	32.36	4342.64	-0.04
03/22/2016	32.40	4342.60	-1.56
02/09/2015	33.96	4341.04	-0.39
03/06/2014	34.35	4340.65	0.54
03/06/2013	33.81	4341.19	
03/28/2012			
03/01/2011	33.67	4341.33	-0.17
03/03/2010	33.84	4341.16	0.21
02/27/2008	33.63	4341.37	0.63

Construction Information

Surface Elevation (ft): 4375.00
 Well Depth (ft): 115.00
 Depth to Base of Grout (ft):
 Depth to Top of Perforated Casing (ft): 35
 Depth to Bottom of Perforated Casing (ft): 115
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 03/28/1957 End Date: 03/08/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: CC-09
Permit Number: 15356-FP
WDID:
Data Source: DWR

Location Number: SB00305417BCC
USGS Site ID:
Applicant/Contact: SPENCE RULE

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
2500 N	620 W	SW	SW	NW	17	3.0 N	54.0 W	S	631702.0	4454182.0	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin:
 Management District:

Time Series Data - Ten Most Recent Reportings

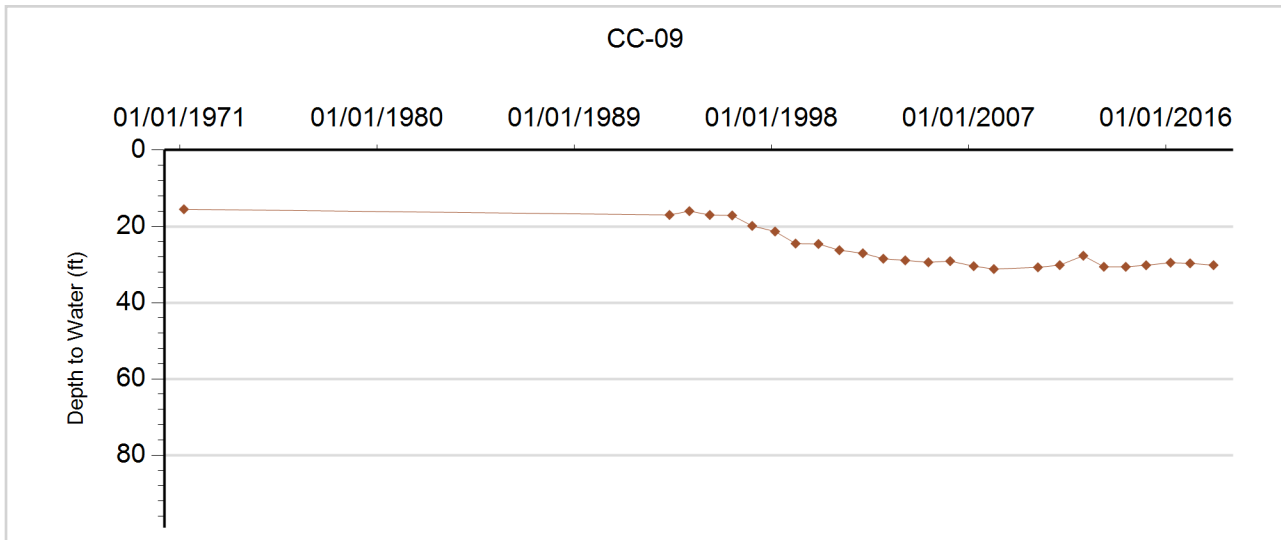
Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018	30.17	4335.83	0.49
02/10/2017	29.68	4336.32	0.17
03/22/2016	29.51	4336.49	-0.68
02/09/2015	30.19	4335.81	-0.41
03/06/2014	30.60	4335.40	0.02
03/06/2013	30.58	4335.42	2.89
03/28/2012	27.69	4338.31	-2.46
03/01/2011	30.15	4335.85	-0.58
03/03/2010	30.73	4335.27	-0.45
02/27/2008	31.18	4334.82	0.75

Construction Information

Surface Elevation (ft): 4366.00
 Well Depth (ft): 99.00
 Depth to Base of Grout (ft): 10
 Depth to Top of Perforated Casing (ft): 34
 Depth to Bottom of Perforated Casing (ft): 99
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 03/08/1971 End Date: 03/08/2018
 Number of Measurements: 26





GROUNDWATER DETAILS

Well Name: CC-10
Permit Number: 21217-F
WDID:
Data Source: DWR

Location Number: SB00305407BBB
USGS Site ID:
Applicant/Contact: HARRY BOLINGER

Physical Location

Dist N/S	Dist E/W	Q10	Q40	Q160	Sec	Township	Range	PM	UTMx	UTMy	Location Accuracy
30 N	90 W	NW	NW	NW	7	3.0 N	54.0 W	S	629969.1	4456400.4	GPS

Division: 1 District: 1
 County: WASHINGTON
 Designated Basin: CAMP CREEK
 Management District:

Time Series Data - Ten Most Recent Reportings

Date	Depth to Water Feet Below Land Surface	Elevation of Water (ft)	Change From Previous Measure (ft)
03/08/2018			
02/10/2017			
03/22/2016			
02/09/2015	31.58	4296.42	-1.11
03/06/2014	32.69	4295.31	0.37
03/06/2013	32.32	4295.68	2.35
03/28/2012	29.97	4298.03	0.01
03/01/2011	29.96	4298.04	0.21
03/03/2010	29.75	4298.25	0.73
02/27/2008	29.02	4298.98	0.68

Construction Information

Surface Elevation (ft): 4328.00
 Well Depth (ft): 126.00
 Depth to Base of Grout (ft): 10
 Depth to Top of Perforated Casing (ft): 41
 Depth to Bottom of Perforated Casing (ft): 126
 Source Aquifer(s): QUATERNARY ALLUVIUM

Well Measurement Summary

Start Date: 08/31/1976 End Date: 03/08/2018
 Number of Measurements: 27

