



TECHNICAL MEMORANDUM

DATE: April 24, 2020 **PROJECT #:** 605.1608

TO: Greg Ghidotti and Victoria Peacey

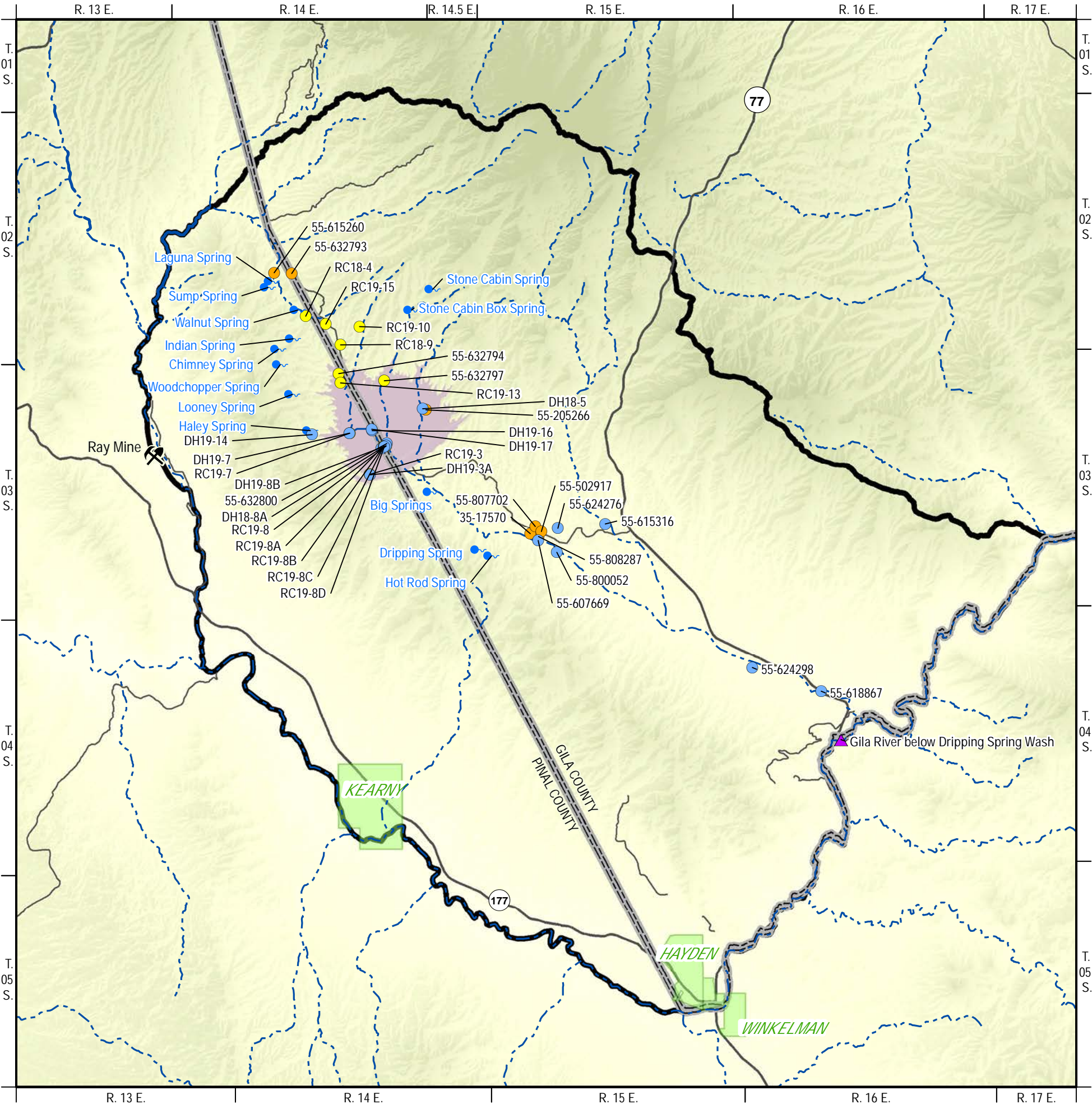
PROJECT: Resolution Copper Mine, Superior, AZ

SUBJECT: Skunk Camp Area Data Submittal – Response to Water Working Group Action Item WR-7

INTRODUCTION

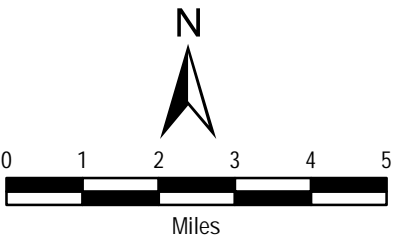
In response to Water Working Group Action Item WR-7 “*Summary and Data for water quality, water level data base for Skunk Camp and Gila River*”, Montgomery & Associates (M&A) has prepared this submittal of hydrogeological data for the Skunk Camp site. Locations of data submitted are shown on Figure 1. The data have been grouped into the following categories:

- **Hydrochemistry.** Hydrochemistry data for groundwater (wells and piezometers), springs, and surface water for established monitoring stations are provided in formatted PDF tables and as attachments in Excel spreadsheets. Water quality results from well development are not included as they may not be representative of the aquifer groundwater quality. To date, the database contains 42 groundwater samples from 22 locations and 29 surface water samples from 14 locations. Tables A-1 to A-5 present groundwater hydrochemistry data and Tables A-6 to A-10 provide surface water hydrochemistry data including M&A collected samples from the Gila River.
- **Groundwater levels.** Water-level measurements recorded in wells and piezometers are provided in PDF plots and attached Excel spreadsheets. Water levels and pore pressures have been monitored in 29 locations. Figures B-1 through B-29 show hydrographs of water levels and heads in Skunk Camp area wells.
- **Publicly available surface water data.** Flow data from stream gages on the Gila River operated by the United States Geological Survey (USGS) are provided in a PDF plot (Figure C-1) and as attached Excel spreadsheets. In addition to the hydrochemistry data collected by M&A, publicly available water quality data for the Gila River between Coolidge Dam and Winkleman are compiled in Excel spreadsheets.



EXPLANATION

- Spring
- Surface Water
- Water Level
- Water Quality
- Water Level and Water Quality
- Proposed TSF Footprint
- Perennial Stream Reach
- Stream



WATER QUALITY
Skunk Camp Proposed
Tailings Storage Facility

MONTGOMERY & ASSOCIATES
Water Resource Consultants

2020

FIGURE 1

TABLE A-1. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b														ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																	FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Groundwater 6 - Skunk Camp System																						
55-205266	RESH-1000896	09-Nov-18	---	---	---	---	---	---	---	---	---	---	---	---	---	21.8	7.43	593	---	---		
55-205266	RESH-1000896	09-Nov-18	63.1	25.2	20.1	1.77	---	---	---	---	30.0	---	---	---	---	---	---	---	---	---	SVL	
55-205266	RESH-1000896	09-Nov-18	---	---	---	---	9.62	ND	316	53.9	---	<0.09	0.232	1.34	327	---	---	---	7.7	557	SVL	
55-205266	RESH-1000896	09-Nov-18	65.0	25.8	21.1	1.67	---	---	---	---	32.3	---	---	---	---	---	---	---	---	---	SVL	
55-205266	RESH-1001022	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	20.9	7.48	576.9	---	---		
55-205266	RESH-1001022	25-Nov-19	65.7	26.0	21.9	1.92	---	---	---	---	32.9	---	---	---	---	---	---	---	---	---	SVL	
55-205266	RESH-1001022	25-Nov-19	---	---	---	---	9.38	ND	301	52.5	---	<0.09	0.211	1.25	336	---	---	---	7.7	648	SVL	
55-205266	RESH-1001022	25-Nov-19	66.5	25.5	21.6	1.72	---	---	---	---	34.7	---	---	---	---	---	---	---	---	---	SVL	
55-502917	RESH-1000962	16-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	24.5	7.88	387	---	---		
55-502917	RESH-1000962	16-Jul-19	19.3	32.2	16.1	1.88	---	---	---	---	25.0	---	---	---	---	---	---	---	---	---	SVL	
55-502917	RESH-1000962	16-Jul-19	---	---	---	---	8.61	ND	233	5.58	---	<0.09	0.221	3.66	240	---	---	---	8.2	411	SVL	
55-502917	RESH-1000962	16-Jul-19	19.0	29.5	16.2	1.93	---	---	---	---	23.6	---	---	---	---	---	---	---	---	---	SVL	
55-502917	RESH-1001008	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	22.5	7.97	395.9	---	---		
55-502917	RESH-1001008	18-Nov-19	19.4	31.2	16.1	1.86	---	---	---	---	26.4	---	---	---	---	---	---	---	---	---	SVL	
55-502917	RESH-1001008	18-Nov-19	---	---	---	---	9.19	ND	228	6.19	---	<0.09	0.255	3.42	184	---	---	---	8.1	436	SVL	
55-502917	RESH-1001008	18-Nov-19	19.4	31.2	15.9	2.01	---	---	---	---	27.4	---	---	---	---	---	---	---	---	---	SVL	
55-632797	RESH-1000941	16-Apr-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.9	7.03	581.7	---	---		
55-632797	RESH-1000941	16-Apr-19	83.2	26.4	16.6	0.68	---	---	---	---	38.2	---	---	---	---	---	---	---	---	---	SVL	
55-632797	RESH-1000941	16-Apr-19	---	---	---	---	10.1	ND	355	30.4	---	<0.09	0.190	1.65	380	---	---	---	7.6	643	SVL	
55-632797	RESH-1000941	16-Apr-19	78.9	25.4	16.3	0.68	---	---	---	---	37.0	---	---	---	---	---	---	---	---	---	SVL	
55-632797	RESH-1001038	18-Dec-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.2	7.03	659	---	---		
55-632797	RESH-1001038	18-Dec-19	85.5	28.3	16.8	0.68	---	---	---	---	38.7	---	---	---	---	---	---	---	---	---	SVL	
55-632797	RESH-1001038	18-Dec-19	---	---	---	---	11.0	ND	400	32.6	---	<0.09	0.196	0.924	444	---	---	---	7.7	727	SVL	
55-632797	RESH-1001038	18-Dec-19	86.4	27.2	17.2	0.70	---	---	---	---	39.0	---	---	---	---	---	---	---	---	---	SVL	
55-632800	RESH-1001039	18-Dec-19	---	---	---	---	---	---	---	---	---	---	---	---	---	20.1	7.07	634	---	---		
55-632800	RESH-1001039	18-Dec-19	90.2	20.7	15.6	0.60	---	---	---	---	42.0	---	---	---	---	---	---	---	---	---	SVL	
55-632800	RESH-1001039	18-Dec-19	---	---	---	---	13.0	ND	393	15.6	---	<0.09	0.211	1.70	417	---	---	---	7.6	685	SVL	
55-632800	RESH-1001039	18-Dec-19	92.2	20.1	16.1	0.65	---	---	---	---	42.5	---	---	---	---	---	---	---	---	---	SVL	
55-807702	RESH-1000969	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	23.7	7.83	379.9	---	---		
55-807702	RESH-1000969	14-Aug-19	24.0	25.7	16.2	1.88	---	---	---	---	24.1	---	---	---	---	---	---	---	---	---	SVL	
55-807702	RESH-1000969	14-Aug-19	---	---	---	---	7.89	ND	220	4.52	---	0.11	0.290	3.63	207	---	---	---	8.0	409	SVL	
55-807702	RESH-1000969	14-Aug-19	25.0	25.9	15.8	1.75	---	---	---	---	27.8	---	---	---	---	---	---	---	---	---	SVL	
55-807702	RESH-1001014	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	22.1	7.94	382.8	---	---		
55-807702	RESH-1001014	19-Nov-19	23.3	27.5	15.5	1.72	---	---	---	---	27.7	---	---	---	---	---	---	---	---	---	SVL	
55-807702	RESH-1001014	19-Nov-19	---	---	---	---	7.98	ND	222	4.94	---	<0.09	0.294	3.18	190	---	---	---	7.9	418	SVL	
55-807702	RESH-1001014	19-Nov-19	23.2	26.7	15.9	1.83	---	---	---	---	28.6	---	---	---	---	---	---	---	---	---	SVL	

TABLE A-1. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b														ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																	FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Groundwater 6 - Skunk Camp System																						
55-807702 DUP	RESH-1001015	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	22.1	7.94	382.6	---	---		
55-807702 DUP	RESH-1001015	19-Nov-19	23.4	27.7	15.5	1.73	---	---	---	---	27.8	---	---	---	---	---	---	---	---	---	SVL	
55-807702 DUP	RESH-1001015	19-Nov-19	---	---	---	---	7.97	ND	222	4.92	---	0.10	0.279	3.49	188	---	---	---	8.0	423	SVL	
55-807702 DUP	RESH-1001015	19-Nov-19	23.1	27.3	15.9	1.82	---	---	---	---	28.6	---	---	---	---	---	---	---	---	---	SVL	
55-807702 LD	RESH-1001015	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	3.45	---	---	---	---	---	---	SVL	
55-808287	RESH-1000971	20-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	288.6	26.8	7.78	407.8	---	---		
55-808287	RESH-1000971	20-Aug-19	23.0	27.8	16.8	1.97	---	---	---	---	24.9	---	---	---	---	---	---	---	---	---	SVL	
55-808287	RESH-1000971	20-Aug-19	---	---	---	---	9.89	ND	237	8.73	---	0.10	0.234	3.46	240	---	---	---	8.1	313	SVL	
55-808287	RESH-1000971	20-Aug-19	23.9	28.2	17.0	1.86	---	---	---	---	24.9	---	---	---	---	---	---	---	---	---	SVL	
55-808287	RESH-1001017	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	15.8	7.95	419.7	---	---		
55-808287	RESH-1001017	21-Nov-19	23.5	31.0	17.5	1.85	---	---	---	---	27.4	---	---	---	---	---	---	---	---	---	SVL	
55-808287	RESH-1001017	21-Nov-19	---	---	---	---	9.98	ND	231	9.06	---	<0.09	0.238	3.07	220	---	---	---	8.0	460	SVL	
55-808287	RESH-1001017	21-Nov-19	24.5	30.3	17.8	1.97	---	---	---	---	27.8	---	---	---	---	---	---	---	---	---	SVL	
55-808287 DUP	RESH-1001018	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	15.8	7.96	419.8	---	---		
55-808287 DUP	RESH-1001018	21-Nov-19	23.4	30.9	17.4	1.86	---	---	---	---	27.3	---	---	---	---	---	---	---	---	---	SVL	
55-808287 DUP	RESH-1001018	21-Nov-19	---	---	---	---	9.96	ND	232	9.13	---	<0.09	0.236	3.16	249	---	---	---	8.1	454	SVL	
55-808287 DUP	RESH-1001018	21-Nov-19	24.4	29.9	17.7	1.96	---	---	---	---	27.7	---	---	---	---	---	---	---	---	---	SVL	
35-17570	RESH-1000972	23-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	26.3	7.44	660.3	---	---		
35-17570	RESH-1000972	23-Aug-19	76.6	32.2	21.3	1.52	---	---	---	---	32.3	---	---	---	---	---	---	---	---	---	SVL	
35-17570	RESH-1000972	23-Aug-19	---	---	---	---	12.8	ND	386	37.7	---	0.11	0.188	1.49	413	---	---	---	7.9	742	SVL	
35-17570	RESH-1000972	23-Aug-19	73.5	31.0	20.7	1.77	---	---	---	---	31.1	---	---	---	---	---	---	---	---	---	SVL	
35-17570	RESH-1001006	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.0	7.33	626.7	---	---		
35-17570	RESH-1001006	18-Nov-19	75.6	31.8	21.0	1.52	---	---	---	---	35.6	---	---	---	---	---	---	---	---	---	SVL	
35-17570	RESH-1001006	18-Nov-19	---	---	---	---	12.6	ND	381	35.5	---	<0.09	0.199	1.49	396	---	---	---	7.6	733	SVL	
35-17570	RESH-1001006	18-Nov-19	76.8	32.7	21.4	1.71	---	---	---	---	38.5	---	---	---	---	---	---	---	---	---	SVL	
55-632794	RESH-1000915	21-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	19.3	7.31	480.7	---	---		
55-632794	RESH-1000915	21-Jan-19	54.6	17.8	21.1	1.19	---	---	---	---	34.6	---	---	---	---	---	---	---	---	---	SVL	
55-632794	RESH-1000915	21-Jan-19	---	---	---	---	13.2	ND	284	8.89	---	0.10	0.255	2.67	292	---	---	---	7.7	484	SVL	
55-632794	RESH-1000915	21-Jan-19	53.9	16.9	20.8	1.08	---	---	---	---	36.3	---	---	---	---	---	---	---	---	---	SVL	
55-632794	RESH-1001013	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	17.9	7.61	487.1	---	---		
55-632794	RESH-1001013	19-Nov-19	55.3	17.4	21.2	0.96	---	---	---	---	38.7	---	---	---	---	---	---	---	---	---	SVL	
55-632794	RESH-1001013	19-Nov-19	---	---	---	---	14.5	ND	270	9.88	---	0.12	0.285	2.91	299	---	---	---	7.8	532	SVL	
55-632794	RESH-1001013	19-Nov-19	55.7	17.5	21.3	1.07	---	---	---	---	40.1	---	---	---	---	---	---	---	---	---	SVL	
RC18-9	RESH-1000918	27-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	446	23.54	7.39	669	---	---		
RC18-9	RESH-1000918	27-Jan-19	38.7	24.3	26.4	1.64	---	---	---	---	39.5	---	---	---	---	---	---	---	---	---	SVL	
RC18-9	RESH-1000918	27-Jan-19	---	---	---	---	18.9	ND	271	4.06	---	0.18	0.193	3.36	298	---	---	---	7.9	468	SVL	
RC18-9	RESH-1000918	27-Jan-19	36.7	23.4	25.4	1.60	---	---	---	---	37.4	---	---	---	---	---	---	---	---	---	SVL	

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FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b														ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																	FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Groundwater 6 - Skunk Camp System																						
RC18-9	RESH-1001016	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21.8	8.14	478.6	---	---	
RC18-9	RESH-1001016	21-Nov-19	36.7	25.5	26.1	1.47	---	---	---	---	38.4	---	---	---	---	---	---	---	---	---	---	SVL
RC18-9	RESH-1001016	21-Nov-19	---	---	---	---	19.7	ND	262	4.24	---	0.18	0.189	3.02	265	---	---	---	---	8.2	530	SVL
RC18-9	RESH-1001016	21-Nov-19	37.4	24.0	25.7	1.53	---	---	---	---	37.8	---	---	---	---	---	---	---	---	---	---	SVL
RC19-10	RESH-1000994	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	18.0	7.91	462	---	---	
RC19-10	RESH-1000994	12-Nov-19	32.9	22.1	33.2	1.61	---	---	---	---	32.4	---	---	---	---	---	---	---	---	---	---	SVL
RC19-10	RESH-1000994	12-Nov-19	---	---	---	---	26.2	ND	233	4.46	---	0.16	0.203	3.03	307	---	---	---	---	8.0	506	SVL
RC19-10	RESH-1000994	12-Nov-19	34.1	22.2	32.6	1.76	---	---	---	---	39.2	---	---	---	---	---	---	---	---	---	---	SVL
RC19-13	RESH-1000957	22-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	22.3	7.43	520.6	---	---	
RC19-13	RESH-1000957	22-Jun-19	59.3	23.1	19.8	1.15	---	---	---	---	34.3	---	---	---	---	---	---	---	---	---	---	SVL
RC19-13	RESH-1000957	22-Jun-19	---	---	---	---	13.9	ND	278	27.1	---	<0.09	0.345	4.34	323	---	---	---	---	7.9	568	SVL
RC19-13	RESH-1000957	22-Jun-19	57.7	22.0	19.4	1.16	---	---	---	---	33.6	---	---	---	---	---	---	---	---	---	---	SVL
RC19-13	RESH-1001012	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20.5	7.74	538.7	---	---	
RC19-13	RESH-1001012	19-Nov-19	59.6	22.6	19.9	1.08	---	---	---	---	34.8	---	---	---	---	---	---	---	---	---	---	SVL
RC19-13	RESH-1001012	19-Nov-19	---	---	---	---	14.2	ND	282	27.0	---	<0.09	0.253	3.91	340	---	---	---	---	8.0	588	SVL
RC19-13	RESH-1001012	19-Nov-19	58.7	22.2	19.5	1.16	---	---	---	---	35.9	---	---	---	---	---	---	---	---	---	---	SVL
RC19-15	RESH-1000965	07-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	25.3	7.45	461	---	---	
RC19-15	RESH-1000965	07-Aug-19	48.4	18.0	23.3	1.53	---	---	---	---	34.8	---	---	---	---	---	---	---	---	---	---	SVL
RC19-15	RESH-1000965	07-Aug-19	---	---	---	---	13.9	ND	264	4.32	---	0.14	0.209	3.24	311	---	---	---	---	7.7	499	SVL
RC19-15	RESH-1000965	07-Aug-19	47.9	18.2	24.9	1.60	---	---	---	---	36.8	---	---	---	---	---	---	---	---	---	---	SVL
RC19-15	RESH-1001023	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23.2	7.65	447.7	---	---	
RC19-15	RESH-1001023	25-Nov-19	58.6	13.3	18.2	1.42	---	---	---	---	34.1	---	---	---	---	---	---	---	---	---	---	SVL
RC19-15	RESH-1001023	25-Nov-19	---	---	---	---	9.67	ND	281	3.15	---	<0.09	0.265	2.26	258	---	---	---	---	7.8	512	SVL
RC19-15	RESH-1001023	25-Nov-19	61.1	13.3	17.9	1.29	---	---	---	---	36.0	---	---	---	---	---	---	---	---	---	---	SVL
RC19-3	RESH-1000973	25-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	24.5	7.69	493	---	---	
RC19-3	RESH-1000973	25-Aug-19	40.6	32.7	13.0	2.59	---	---	---	---	36.3	---	---	---	---	---	---	---	---	---	---	SVL
RC19-3	RESH-1000973	25-Aug-19	---	---	---	---	14.2	ND	285	7.70	---	0.11	0.296	1.26	327	---	---	---	---	8.0	557	SVL
RC19-3	RESH-1000973	25-Aug-19	40.1	32.9	13.1	2.89	---	---	---	---	35.6	---	---	---	---	---	---	---	---	---	---	SVL
RC19-3	RESH-1001010	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	26.1	7.64	485.7	---	---	
RC19-3	RESH-1001010	18-Nov-19	40.6	32.5	13.4	2.38	---	---	---	---	37.1	---	---	---	---	---	---	---	---	---	---	SVL
RC19-3	RESH-1001010	18-Nov-19	---	---	---	---	14.7	ND	292	7.36	---	0.09 j	0.349	1.04	253	---	---	---	---	7.8	532	SVL
RC19-3	RESH-1001010	18-Nov-19	41.7	32.9	13.9	2.55	---	---	---	---	39.5	---	---	---	---	---	---	---	---	---	---	SVL
RC19-7	RESH-1000960	10-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	22.7	7.41	525	---	---	
RC19-7	RESH-1000960	10-Jul-19	55.8	35.0	16.6	1.40	---	---	---	---	27.5	---	---	---	---	---	---	---	---	---	---	SVL
RC19-7	RESH-1000960	10-Jul-19	---	---	---	---	18.7	ND	311	22.3	---	0.14	0.213	3.47	380	---	---	---	---	8.0	605	SVL
RC19-7	RESH-1000960	10-Jul-19	57.6	34.1	16.3	1.39	---	---	---	---	26.5	---	---	---	---	---	---	---	---	---	---	SVL

TABLE A-1. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b														ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																	FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Groundwater 6 - Skunk Camp System																						
RC19-7	RESH-1001020	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.0	7.55	546.7	---	---	SVL	
RC19-7	RESH-1001020	25-Nov-19	48.1	32.3	18.8	1.49	---	---	---	---	24.3	---	---	---	---	---	---	---	---	---		
RC19-7	RESH-1001020	25-Nov-19	---	---	---	---	17.8	ND	310	21.7	---	0.12	0.208	2.22	302	---	---	---	7.6	615		
RC19-7	RESH-1001020	25-Nov-19	49.1	31.9	18.0	1.36	---	---	---	---	26.2	---	---	---	---	---	---	---	---	---		
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.8	7.14	558	---	---	SVL	
RC19-7_Upper	RESH-1000959	04-Jul-19	58.0	33.9	16.2	1.36	---	---	---	---	27.2	---	---	---	---	---	---	---	---	---		
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	---	---	20.3	ND	307	19.4	---	0.14	0.197	4.08	362	---	---	---	7.9	566		
RC19-7_Upper	RESH-1000959	04-Jul-19	56.2	34.0	15.7	1.34	---	---	---	---	26.4	---	---	---	---	---	---	---	---	---		
RC19-8	RESH-1000924	01-Mar-19	---	---	---	---	---	---	---	---	---	---	---	---	---	23.10	7.51	407	---	---	SVL	
RC19-8	RESH-1000924	01-Mar-19	46.8	22.5	22.5	1.75	---	---	---	---	33.7	---	---	---	---	---	---	---	---	---		
RC19-8	RESH-1000924	01-Mar-19	---	---	---	---	13.3	ND	260	4.19	---	0.12	0.245	3.45	264	---	---	---	7.9	472		
RC19-8	RESH-1000924	01-Mar-19	44.8	21.6	21.2	1.65	---	---	---	---	32.1	---	---	---	---	---	---	---	---	---		
RC19-8	RESH-1001007	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	22.6	7.75	456.8	---	---	SVL	
RC19-8	RESH-1001007	18-Nov-19	41.6	22.3	21.7	1.67	---	---	---	---	32.3	---	---	---	---	---	---	---	---	---		
RC19-8	RESH-1001007	18-Nov-19	---	---	---	---	14.5	ND	259	4.50	---	<0.09	0.263	3.41	265	---	---	---	7.8	502		
RC19-8	RESH-1001007	18-Nov-19	41.5	22.3	21.9	1.78	---	---	---	---	33.8	---	---	---	---	---	---	---	---	---		
RC19-8B	RESH-1000970	16-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	22.6	7.50	551.5	---	---	SVL	
RC19-8B	RESH-1000970	16-Aug-19	57.8	29.9	18.2	1.54	---	---	---	---	30.5	---	---	---	---	---	---	---	---	---		
RC19-8B	RESH-1000970	16-Aug-19	---	---	---	---	10.3	ND	343	15.3	---	0.11	0.223	2.36	328	---	---	---	7.9	604		
RC19-8B	RESH-1000970	16-Aug-19	59.7	32.6	18.7	1.62	---	---	---	---	31.8	---	---	---	---	---	---	---	---	---		
RC19-8B	RESH-1001019	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.8	7.44	542.3	---	---	SVL	
RC19-8B	RESH-1001019	21-Nov-19	53.7	29.8	17.6	1.67	---	---	---	---	32.2	---	---	---	---	---	---	---	---	---		
RC19-8B	RESH-1001019	21-Nov-19	---	---	---	---	9.34	ND	316	17.5	---	0.20	0.239	2.12	328	---	---	---	7.9	571		
RC19-8B	RESH-1001019	21-Nov-19	56.0	29.3	17.9	1.74	---	---	---	---	32.4	---	---	---	---	---	---	---	---	---		
RC19-8D	RESH-1000963	21-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	23.8	7.52	420.1	---	---	SVL	
RC19-8D	RESH-1000963	21-Jul-19	41.0	30.3	18.0	1.63	---	---	---	---	30.8	---	---	---	---	---	---	---	---	---		
RC19-8D	RESH-1000963	21-Jul-19	---	---	---	---	12.2	ND	285	11.3	---	0.10	0.205	3.57	273	---	---	---	8.0	519		
RC19-8D	RESH-1000963	21-Jul-19	41.4	30.4	17.4	1.84	---	---	---	---	30.7	---	---	---	---	---	---	---	---	---		
Groundwater 7 - Mineral Creek																						
55-615260	RESH-1000967	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	24.0	7.49	688.9	---	---	SVL	
55-615260	RESH-1000967	14-Aug-19	76.1	33.0	23.0	1.23	---	---	---	---	23.0	---	---	---	---	---	---	---	---	---		
55-615260	RESH-1000967	14-Aug-19	---	---	---	---	18.0	ND	361	54.3	---	0.15	0.227	1.61	410	---	---	---	7.8	735		
55-615260	RESH-1000967	14-Aug-19	79.6	35.0	21.9	1.13	---	---	---	---	26.3	---	---	---	---	---	---	---	---	---		
55-615260	RESH-1001000	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	20.7	7.24	680.7	---	---	SVL	
55-615260	RESH-1001000	14-Nov-19	83.2	36.8	23.8	1.31	---	---	---	---	25.1	---	---	---	---	---	---	---	---	---		
55-615260	RESH-1001000	14-Nov-19	---	---	---	---	18.8	ND	362	56.7	---	<0.09	0.232	1.66	432	---	---	---	7.8	770		
55-615260	RESH-1001000	14-Nov-19	76.2	32.1	22.7	1.29	---	---	---	---	25.5	---	---	---	---	---	---	---	---	---		

TABLE A-1. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b													ROUTINE PARAMETERS					ANALYTICAL LABORATORY	
																FIELD			LABORATORY			
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Groundwater 7 - Mineral Creek																						
55-632793	RESH-1000913	15-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	501.6	19.8	7.28	688	---	---		
55-632793	RESH-1000913	15-Jan-19	72.2	30.2	26.5	0.78	---	---	---	---	33.8	---	---	---	---	---	---	---	---	---	SVL	
55-632793	RESH-1000913	15-Jan-19	---	---	---	---	14.6	ND	360	63.1	---	0.11	0.496	4.25	426	---	---	---	7.5	707	SVL	
55-632793	RESH-1000913	15-Jan-19	77.1	30.4	28.1	0.80	---	---	---	---	36.9	---	---	---	---	---	---	---	---	---	SVL	
55-632793	RESH-1001005	15-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	-6.7	7.17	793.3	---	---		
55-632793	RESH-1001005	15-Nov-19	89.4	35.7	33.4	0.90	---	---	---	---	35.4	---	---	---	---	---	---	---	---	---	SVL	
55-632793	RESH-1001005	15-Nov-19	---	---	---	---	18.7	ND	375	60.6	---	<0.09	0.428	4.94	453	---	---	---	7.7	827	SVL	
55-632793	RESH-1001005	15-Nov-19	81.2	31.9	31.6	0.94	---	---	---	---	36.9	---	---	---	---	---	---	---	---	---	SVL	
RC18-4	RESH-1001024	26-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	21.0	7.61	627.4	---	---		
RC18-4	RESH-1001024	26-Nov-19	47.3	31.1	39.5	2.38	---	---	---	---	30.7	---	---	---	---	---	---	---	---	---	SVL	
RC18-4	RESH-1001024	26-Nov-19	---	---	---	---	19.3	ND	331	33.5	---	<0.09	0.234	0.578	337	---	---	---	7.7	693	SVL	
RC18-4	RESH-1001024	26-Nov-19	47.6	31.2	38.7	2.14	---	---	---	---	32.5	---	---	---	---	---	---	---	---	---	SVL	
Arizona Numeric Aquifer Water Quality Standards			---	---	---	---	---	---	---	---	---	---	4.0	10	---	---	---	---	---	---		


Values in red are above Arizona numeric water quality standards


Values in blue indicate that detection limit exceeds Arizona numeric water quality standard


--- = Not available, not applicable


-- = Not calculated due to non-detect

* = Value reported as Na+K

 Shading indicates dissolved results

 Shading indicates total results

 Shading indicates total recoverable results

 Shading indicates unknown filtration or no filtration method provided for analyses

- ^a Ca = Calcium
Mg = Magnesium
Na = Sodium
K = Potassium
Cl = Chloride
CO₃ = Carbonate ion
HCO₃ = Bicarbonate ion
SO₄ = Sulfate
SiO₂ = Silica
Br = Bromide
F = Fluoride
NO₃+NO₂ (as N) = Nitrate plus Nitrite, in equivalent milligrams of nitrogen per liter
TDS = Total dissolved solids
- ^b mg/L = milligrams per liter
- ^c Carbonate and Bicarbonate ions not reported directly by the laboratory are calculated from values reported as calcium carbonate
- ^d TEMP (°C) = Temperature, in degrees Celsius
- ^e SC (μS/cm) = Specific Conductance in microsiemens per centimeter

Explanation of Codes

Absent = Analyte not present

ge = Greater than or equal to reported value

i = Insufficient sample

j = Estimated value

j+ = Estimated value, high bias

j- = Estimated value, low bias

Lost = Sample lost in processing

n = Not measured

na = Not available

ND = Not Detected

np = Analyte not applicable

Present = Analyte was detected

q = Uncertain value

r = Unusable data

< = Less than reported detection limit

> = Greater than reported value

d = Diluted. Diluted samples are indicated only when value is estimated.

DUP = Field Duplicate

LD = Laboratory duplicate

SP = Split sample

SPD = Split-Duplicate



TABLE A-2. TRACE CONSTITUENTS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																				ANALYTICAL LABORATORY		
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S		Tl	Zn
Groundwater 6 - Skunk Camp System																									
55-205266	RESH-1000896	09-Nov-18	---	---	---	---	---	---	---	---	---	---	---	---	---	5.24E-06 j,d	---	---	---	---	---	---	---	Anatek	
55-205266	RESH-1000896	09-Nov-18	<0.05	<0.00023	0.00028 jd	0.0038	<0.0017	0.026 j	<0.000063	<0.0020	<0.0016	0.00165	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0002 jd	<0.000061	---	<0.00008	0.224	SVL
55-205266	RESH-1000896	09-Nov-18	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000107	---	---	---	---	---	---	---	Anatek	
55-205266	RESH-1000896	09-Nov-18	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	<0.26	---	---	SVL	
55-205266	RESH-1000896	09-Nov-18	<0.02	r	0.00032 jd	0.0039	<0.0005	0.026 j	<0.000038	<0.0010	<0.0007	0.00178	---	0.042 j	0.00015 jd	<0.0025	---	<0.001	<0.0014	<0.0004	<0.000036	---	<0.00003	0.225	SVL
55-205266	RESH-1001022	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-205266	RESH-1001022	25-Nov-19	<0.05	<0.00023	0.00025 j	0.0061	0.0009 j	0.027 j	<0.000063	<0.0020	<0.0016	r	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0003 j	<0.000061	---	<0.00008	0.129	SVL
55-205266	RESH-1001022	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-205266	RESH-1001022	25-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	r	---	---	SVL	
55-205266	RESH-1001022	25-Nov-19	<0.03	<0.00023	0.00025 j	0.0039	<0.0004	0.038 j	<0.000063	<0.0010	<0.0008	0.00177	---	<0.028	<0.00014	<0.0017	---	<0.002	<0.0012	0.0003 j	<0.000061	---	<0.00008	0.132	SVL
55-502917	RESH-1000962	16-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-502917	RESH-1000962	16-Jul-19	<0.05	<0.00023	0.00041 j	0.0056	<0.0008	0.030 j	<0.000063	0.0102	<0.0016	0.00075 j	---	<0.056	0.00025 j	<0.0034	---	<0.003	0.0044 j	r	<0.000061	---	<0.00008	<0.005	SVL
55-502917	RESH-1000962	16-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-502917	RESH-1000962	16-Jul-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	<0.26	---	---	SVL	
55-502917	RESH-1000962	16-Jul-19	<0.03	<0.00023	0.00039 j	0.0042	<0.0004	0.028 j	<0.000063	0.0118	<0.0008	<0.00036	---	<0.028	0.00021 j	<0.0017	---	<0.002	0.0040 j	r	<0.000061	---	<0.00008	0.004 j	SVL
55-502917 LD	RESH-1000962	16-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0044 j	---	---	---	---	SVL	
55-502917 LD	RESH-1000962	16-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0035 j	---	---	---	---	SVL	
55-502917	RESH-1001008	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-502917	RESH-1001008	18-Nov-19	<0.05	<0.00023	0.00034 j	0.0041	<0.0008	0.037 j	<0.000063	0.0119	<0.0016	0.00045 j	---	<0.056	0.00015 j	<0.0034	---	<0.003	<0.0023	0.0004 j	<0.000061	---	<0.00008	<0.005	SVL
55-502917	RESH-1001008	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-502917	RESH-1001008	18-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	2.67	---	---	SVL	
55-502917	RESH-1001008	18-Nov-19	<0.03	<0.00023	0.00038 j	0.0048	<0.0004	0.032 j	<0.000063	0.0118	0.0008 j	0.00062 j	---	<0.028	0.00015 j	<0.0017	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	<0.003	SVL
55-632797	RESH-1000941	16-Apr-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-632797	RESH-1000941	16-Apr-19	<0.05	<0.00023	0.00054 j	0.0629	<0.0017	0.027 j	<0.000063	<0.0020	<0.0016	0.00208	---	<0.056	0.00058 j	0.0047 j	---	<0.003	<0.0023	0.0004 j	<0.000061	---	<0.00008	0.405	SVL
55-632797	RESH-1000941	16-Apr-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-632797	RESH-1000941	16-Apr-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	0.96 j	---	---	SVL	
55-632797	RESH-1000941	16-Apr-19	<0.03	<0.00023	0.00048 jd	0.0587	<0.0009	0.028 j	<0.000063	<0.0010	<0.0008	0.00193	---	<0.028	0.00071 jd	<0.0017	---	<0.002	<0.0012	0.0003 jd	<0.000061	---	<0.00008	0.372	SVL
55-632797	RESH-1001038	18-Dec-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-632797	RESH-1001038	18-Dec-19	<0.05	<0.00023	0.00047 j	0.0683	<0.0008	0.030 j	<0.000063	<0.0020	<0.0016	0.00194	---	<0.056	0.00058 j	<0.0034	---	<0.003	0.0037 j	0.0003 j	<0.000061	---	<0.00008	0.520	SVL
55-632797	RESH-1001038	18-Dec-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-632797	RESH-1001038	18-Dec-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	r	---	---	SVL	
55-632797	RESH-1001038	18-Dec-19	<0.03	<0.00023	0.00046 j	0.0640	<0.0004	0.034 j	<0.000063	<0.0010	<0.0008	0.00198	---	<0.028	0.00062 j	<0.0017	---	<0.002	0.0026 j	0.0002 j	<0.000061	---	<0.00008	0.514	SVL
55-632800	RESH-1001039	18-Dec-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-632800	RESH-1001039	18-Dec-19	<0.05	0.00038 j	0.00062 j	0.0221	<0.0008	0.024 j	0.00020	<0.0020	<0.0016	0.00695	---	<0.056	0.00137 j	<0.0034	---	<0.003	0.0050 j	0.0004 j	0.000102	---	0.000165 j	1.06	SVL
55-632800	RESH-1001039	18-Dec-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-632800	RESH-1001039	18-Dec-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	r	---	---	SVL	
55-632800	RESH-1001039	18-Dec-19	<0.03	0.00023 j	0.00062 j	0.0214	<0.0004	0.028 j	<0.000063	<0.0010	<0.0008	0.00728	---	<0.028	0.00151 j	<0.0017	---	<0.002	0.0026 j	0.0004 j	<0.000061	---	<0.00008	1.04	SVL
55-807702	RESH-1000969	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-807702	RESH-1000969	14-Aug-19	<0.05	<0.00023	0.00040 j	0.0024	<0.0008	0.027 j	<0.000063	0.0069	<0.0016	0.00122	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0004 j	<0.000061	---	<0.00008	0.005 j	SVL
55-807702	RESH-1000969	14-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	---	<0.000002	---	---	---	---	---	---	Anatek	
55-807702	RESH-1000969	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL	
55-807702	RESH-1000969	14-Aug-19	<0.03	<0.00023	0.00038 j	0.0031	<0.0004	0.031 j	<0.000063	0.0066	<0.0008	0.00143	---	<0.028	<0.00014	<0.0017	---	<0.002	0.0041 j	0.0004 j	<0.000061	---	<0.00008	0.007 j	SVL

TABLE A-2. TRACE CONSTITUENTS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																						ANALYTICAL LABORATORY	
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S	Tl	Zn		
Groundwater 6 - Skunk Camp System																										
55-807702	RESH-1001014	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-807702	RESH-1001014	19-Nov-19	<0.05	<0.00023	0.00040 j	0.0034	<0.0008	0.033 j	<0.000063	0.0079	<0.0016	0.00221	---	<0.056	0.00032 j	<0.0034	---	<0.003	<0.0023	0.0003 j	<0.000061	---	<0.00008	0.014	SVL	
55-807702	RESH-1001014	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-807702	RESH-1001014	19-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	2.72	---	---	SVL	
55-807702	RESH-1001014	19-Nov-19	<0.03	<0.00023	0.00041 j	0.0029	<0.0004	0.027 j	<0.000063	0.0078	0.0011 j	0.00178	---	<0.028	0.00014 j	<0.0017	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	0.004 j	SVL	
55-807702 DUP	RESH-1001015	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-807702 DUP	RESH-1001015	19-Nov-19	<0.05	<0.00023	0.00041 j	0.0028	<0.0008	0.033 j	<0.000063	0.0078	<0.0016	0.00541	---	0.074 j	0.00096 j	<0.0034	---	<0.003	<0.0023	0.0003 j	<0.000061	---	<0.00008	0.023	SVL	
55-807702 DUP	RESH-1001015	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-807702 DUP	RESH-1001015	19-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	3.48	---	---	SVL	
55-807702 DUP	RESH-1001015	19-Nov-19	<0.03	<0.00023	0.00040 j	0.0029	<0.0004	0.027 j	<0.000063	0.0080	0.0010 j	0.00153	---	0.028 j	0.00014 j	<0.0017	---	<0.002	<0.0012	0.0004 j	<0.000061	---	<0.00008	0.005 j	SVL	
55-808287	RESH-1000971	20-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-808287	RESH-1000971	20-Aug-19	<0.05	<0.00023	0.00030 j	0.0032	<0.0008	0.029 j	<0.000063	0.0097	<0.0016	0.00074 j	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.005 j	SVL	
55-808287	RESH-1000971	20-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
55-808287	RESH-1000971	20-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL	
55-808287	RESH-1000971	20-Aug-19	<0.03	<0.00023	0.00032 j	0.0041	<0.0004	0.029 j	<0.000063	0.0094	<0.0008	<0.00036	---	<0.028	<0.00014	<0.0017	---	<0.002	0.0065 j	0.0005 j	<0.000061	---	<0.00008	0.003 j	SVL	
55-808287	RESH-1001017	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-808287	RESH-1001017	21-Nov-19	<0.05	<0.00023	0.00033 j	0.0043	<0.0008	0.034 j	<0.000063	0.0101	<0.0016	0.00088 j	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.014	SVL	
55-808287	RESH-1001017	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-808287	RESH-1001017	21-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.61	---	---	SVL	
55-808287	RESH-1001017	21-Nov-19	<0.03	<0.00023	0.00029 j	0.0045	<0.0004	0.040	<0.000063	0.0098	<0.0008	0.00175	---	0.031 j	<0.00014	<0.0017	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	0.032	SVL	
55-808287 DUP	RESH-1001018	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-808287 DUP	RESH-1001018	21-Nov-19	<0.05	<0.00023	0.00031 j	0.0037	<0.0008	0.035 j	<0.000063	0.0099	<0.0016	0.00087 j	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.015	SVL	
55-808287 DUP	RESH-1001018	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
55-808287 DUP	RESH-1001018	21-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL	
55-808287 DUP	RESH-1001018	21-Nov-19	<0.03	<0.00023	0.00034 j	0.0045	<0.0004	0.039 j	<0.000063	0.0099	<0.0008	0.00252	---	<0.028	<0.00014	<0.0017	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	0.009 j	SVL	
35-17570	RESH-1000972	23-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
35-17570	RESH-1000972	23-Aug-19	<0.05	<0.00023	0.00051 j	0.0368	<0.0008	0.027 j	<0.000063	0.0020 j	<0.0016	0.00788	---	<0.056	<0.00014	<0.0034	---	0.004 j	<0.0023	0.0008 j	<0.000061	---	<0.00008	0.200	SVL	
35-17570	RESH-1000972	23-Aug-19	---	---	---	---	---	---	---	---	---	---	0.00773 j	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek	
35-17570	RESH-1000972	23-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL	
35-17570	RESH-1000972	23-Aug-19	<0.03	<0.00023	0.00063 j	0.0344	<0.0004	0.028 j	<0.000063	0.0036 j	<0.0008	0.00830	---	0.221	0.00177 j	0.0035 j	---	0.005 j	<0.0012	0.0009 j	<0.000061	---	<0.00008	0.162	SVL	
35-17570	RESH-1001006	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
35-17570	RESH-1001006	18-Nov-19	<0.05	<0.00023	0.00028 j	0.0332	<0.0008	0.039 j	<0.000063	0.0024 j	<0.0016	0.0139	---	0.103	<0.00014	<0.0034	---	0.003 j	<0.0023	0.0008 j	<0.000061	---	<0.00008	0.362	SVL	
35-17570	RESH-1001006	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
35-17570	RESH-1001006	18-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	0.89 j	---	---	SVL	
35-17570	RESH-1001006	18-Nov-19	0.05 j	0.00025 j	0.00068 j	0.0363	<0.0004	0.032 j	<0.000063	0.0107	0.0014 j	0.0191	---	4.52	0.00042 j	0.0153	---	0.005 j	0.0060 j	0.0008 j	<0.000061	---	<0.00008	0.215	SVL	
55-632794	RESH-1000915	21-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000239	---	---	---	---	---	---	---	---	Anatek	
55-632794	RESH-1000915	21-Jan-19	<0.05	<0.00023	0.00096 jd	0.0190	<0.0017	0.028 j	<0.000063	<0.0020	<0.0016	0.00037 jd	---	<0.056	0.00028 jd	<0.0034	---	<0.003	<0.0023	r	<0.000061	---	<0.00008	0.394	SVL	
55-632794	RESH-1000915	21-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000151	---	---	---	---	---	---	---	---	Anatek	
55-632794	RESH-1000915	21-Jan-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	<0.26	---	---	SVL	
55-632794	RESH-1000915	21-Jan-19	<0.02	r	0.00099 jd	0.0188	<0.0005	0.030 j	<0.000038	<0.0010	<0.0007	0.00067 jd	---	0.024 j	0.00045 jd	<0.0025	---	0.001 j	<0.0014	0.0006 jd	<0.000036	---	<0.00003	0.379	SVL	

TABLE A-2. TRACE CONSTITUENTS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																				ANALYTICAL LABORATORY		
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S		Tl	Zn
Groundwater 6 - Skunk Camp System																									
55-632794	RESH-1001013	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
55-632794	RESH-1001013	19-Nov-19	<0.05	<0.00023	0.00094 j	0.0185	<0.0008	0.037 j	<0.000063	<0.0020	<0.0016	0.00371	---	<0.056	0.00041 j	<0.0034	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.456	SVL
55-632794	RESH-1001013	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
55-632794	RESH-1001013	19-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	3.00	---	---	SVL
55-632794	RESH-1001013	19-Nov-19	<0.03	<0.00023	0.00096 j	0.0190	<0.0004	0.029 j	<0.000063	<0.0010	0.0013 j	0.00468	---	0.038 j	0.00069 j	<0.0017	---	<0.002	<0.0012	0.0006 j	<0.000061	---	<0.00008	0.467	SVL
RC18-9	RESH-1000918	27-Jan-19	<0.05	<0.00023	0.00096 jd	0.0043	<0.0017	0.031 j	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	<0.0034	<0.000093	<0.003	<0.0023	0.0008 jd	<0.000061	---	<0.00008	0.086	SVL
RC18-9	RESH-1000918	27-Jan-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	<0.000093	---	---	---	---	<0.26	---	---	SVL
RC18-9	RESH-1000918	27-Jan-19	<0.02	0.000037 jd	0.00093 jd	0.0043	<0.0005	0.031 j	<0.000038	<0.0010	<0.0007	<0.00036	---	<0.023	<0.000065	0.0026 j	---	<0.001	<0.0014	0.0008 jd	<0.000036	---	<0.00003	0.085	SVL
RC18-9	RESH-1001016	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC18-9	RESH-1001016	21-Nov-19	<0.05	<0.00023	0.00092 j	0.0028	<0.0008	0.041	<0.000063	<0.0020	<0.0016	0.00114	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0008 j	<0.000061	---	<0.00008	0.204	SVL
RC18-9	RESH-1001016	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC18-9	RESH-1001016	21-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC18-9	RESH-1001016	21-Nov-19	<0.03	<0.00023	0.00102 j	0.0035	<0.0004	0.045	<0.000063	<0.0010	<0.0008	0.00064 j	---	<0.028	<0.00014	<0.0017	---	<0.002	<0.0012	0.0008 j	<0.000061	---	<0.00008	0.219	SVL
RC19-10	RESH-1000994	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-10	RESH-1000994	12-Nov-19	<0.05	<0.00023	0.00103 j	0.0084	<0.0008	0.044	<0.000063	<0.0020	<0.0016	<0.00036	---	0.310	<0.00014	0.100	---	<0.003	<0.0023	0.0011 j	<0.000061	---	<0.00008	<0.005	SVL
RC19-10	RESH-1000994	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-10	RESH-1000994	12-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
RC19-10	RESH-1000994	12-Nov-19	0.12	0.00070 j	0.00343	0.0187	<0.0004	0.050	<0.000063	0.0036 j	<0.0008	0.00349	---	16.4	0.00018 j	0.227	---	<0.002	0.0028 j	0.0009 j	<0.000061	---	<0.00008	0.026	SVL
RC19-13	RESH-1000957	22-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-13	RESH-1000957	22-Jun-19	<0.05	<0.00023	0.00067 j	0.0064	<0.0008	0.036 j	<0.000063	<0.0020	<0.0016	0.00184	---	<0.056	0.00038 j	0.0062 j	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.417	SVL
RC19-13	RESH-1000957	22-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-13	RESH-1000957	22-Jun-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.24	---	---	SVL
RC19-13	RESH-1000957	22-Jun-19	<0.03	<0.00023	0.00072 j	0.0056	<0.0004	0.036 j	<0.000063	<0.0010	<0.0008	0.00214	---	0.099 j	0.00066 j	0.0058 j	---	<0.002	<0.0012	r	<0.000061	---	<0.00008	0.384	SVL
RC19-13	RESH-1001012	19-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-13	RESH-1001012	19-Nov-19	<0.05	<0.00023	0.00068 j	0.0117	<0.0008	0.082	<0.000063	<0.0020	<0.0016	0.00251	---	<0.056	0.00048 j	0.0037 j	---	<0.003	<0.0023	0.0004 j	<0.000061	---	<0.00008	0.270	SVL
RC19-13	RESH-1001012	19-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC19-13	RESH-1001012	19-Nov-19	0.04 j	<0.00023	0.00075 j	0.0072	<0.0004	0.039 j	<0.000063	0.0011 j	0.0010 j	0.00282	---	<0.028	0.00043 j	0.0020 j	---	<0.002	<0.0012	0.0004 j	<0.000061	---	<0.00008	0.248	SVL
RC19-15	RESH-1000965	07-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-15	RESH-1000965	07-Aug-19	0.06 j	<0.00023	0.00123 j	0.0104	<0.0008	0.022 j	<0.000063	<0.0020	<0.0016	0.00065 j	---	<0.056	<0.00014	0.0078 j	---	<0.003	<0.0023	0.0006 j	<0.000061	---	<0.00008	0.017	SVL
RC19-15	RESH-1000965	07-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
RC19-15	RESH-1000965	07-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
RC19-15	RESH-1000965	07-Aug-19	<0.03	<0.00023	0.00125 j	0.0103	<0.0004	0.024 j	<0.000063	<0.0010	<0.0008	0.00073 j	---	0.039 j	<0.00014	0.0095	---	<0.002	<0.0012	0.0006 j	<0.000061	---	<0.00008	0.024	SVL
RC19-15	RESH-1001023	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-15	RESH-1001023	25-Nov-19	<0.05	<0.00023	0.00083 j	0.0251	0.0009 j	0.018 j	<0.000063	<0.0020	<0.0016	0.00061 j	---	<0.056	0.00020 j	0.0078 j	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.146	SVL
RC19-15	RESH-1001023	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-15	RESH-1001023	25-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC19-15	RESH-1001023	25-Nov-19	<0.03	<0.00023	0.00079 j	0.0249	<0.0004	0.028 j	<0.000063	<0.0010	<0.0008	<0.00036	---	0.108	0.00043 j	0.0077 j	---	<0.002	<0.0012	0.0003 j	<0.000061	---	<0.00008	0.171	SVL
RC19-3	RESH-1000973	25-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-3	RESH-1000973	25-Aug-19	<0.05	<0.00023	0.00180 j	0.0144	<0.0008	0.028 j	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	0.0083	---	<0.003	<0.0023	0.0007 j	<0.000061	---	<0.00008	0.008 j	SVL
RC19-3	RESH-1000973	25-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
RC19-3	RESH-1000973	25-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
RC19-3	RESH-1000973	25-Aug-19	<0.03	<0.00023	0.00183 j	0.0145	<0.0004	0.032 j	<0.000063	<0.0010	<0.0008	<0.00036	---	<0.028	<0.00014	0.0061 j	---	0.002 j	<0.0012	0.0007 j	<0.000061	---	<0.00008	r	SVL

TABLE A-2. TRACE CONSTITUENTS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																				ANALYTICAL LABORATORY		
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S		Tl	Zn
Groundwater 6 - Skunk Camp System																									
RC19-3	RESH-1001010	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-3	RESH-1001010	18-Nov-19	<0.05	<0.00023	0.00105 j	0.0174	<0.0008	0.037 j	<0.000063	<0.0020	<0.0016	0.00057 j	---	0.121	<0.00014	0.0343	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.157	SVL
RC19-3	RESH-1001010	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-3	RESH-1001010	18-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.13	---	---	SVL
RC19-3	RESH-1001010	18-Nov-19	<0.03	<0.00023	0.00127 j	0.0179	<0.0004	0.030 j	<0.000063	0.0015 j	0.0014 j	<0.00036	---	0.347	0.00022 j	0.0355	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	0.195	SVL
RC19-7	RESH-1000960	10-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-7	RESH-1000960	10-Jul-19	<0.05	<0.00023	0.00040 j	0.0400	<0.0008	0.026 j	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	0.0059 j	---	<0.003	<0.0023	0.0006 j	<0.000061	---	<0.00008	0.018	SVL
RC19-7	RESH-1000960	10-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-7	RESH-1000960	10-Jul-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
RC19-7	RESH-1000960	10-Jul-19	<0.03	<0.00023	0.00043 j	0.0385	<0.0004	0.027 j	<0.000063	<0.0010	<0.0008	<0.00036	---	0.093 j	<0.00014	0.0051 j	---	<0.002	0.0096 j	0.0008 j	<0.000061	---	<0.00008	0.018	SVL
RC19-7	RESH-1001020	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-7	RESH-1001020	25-Nov-19	<0.05	<0.00023	0.00046 j	0.0469	<0.0008	0.031 j	<0.000063	<0.0020	<0.0016	0.00046 j	---	0.398	<0.00014	0.104	---	<0.003	<0.0023	0.0004 j	<0.000061	---	<0.00008	0.161	SVL
RC19-7	RESH-1001020	25-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-7	RESH-1001020	25-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC19-7	RESH-1001020	25-Nov-19	<0.03	<0.00023	0.00053 j	0.0435	<0.0004	0.038 j	<0.000063	<0.0010	<0.0008	0.00052 j	---	0.715	<0.00014	0.103	---	<0.002	<0.0012	0.0006 j	<0.000061	---	<0.00008	0.209	SVL
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-7_Upper	RESH-1000959	04-Jul-19	<0.05	<0.00023	0.00025 j	0.0378	<0.0008	0.027 j	<0.000063	<0.0020	<0.0016	0.00057 j	---	0.209	0.00023 j	0.0136	---	<0.003	0.0061 j	0.0008 j	<0.000061	---	<0.00008	0.043	SVL
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC19-7_Upper	RESH-1000959	04-Jul-19	<0.03	<0.00023	0.00027 j	0.0345	<0.0004	0.031 j	<0.000063	<0.0010	<0.0008	0.00214	---	0.296	0.00046 j	0.0130	---	<0.002	0.0012 j	0.0006 j	<0.000061	---	<0.00008	0.047	SVL
RC19-8	RESH-1000924	01-Mar-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000049	---	---	---	---	---	---	---	---	Anatek
RC19-8	RESH-1000924	01-Mar-19	<0.05	<0.00023	0.00076 jd	0.0045	<0.0017	0.025 j	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	0.0068 j	---	<0.003	<0.0023	0.0005 jd	<0.000061	---	<0.00008	<0.005	SVL
RC19-8	RESH-1000924	01-Mar-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8	RESH-1000924	01-Mar-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	0.65 j	---	---	SVL
RC19-8	RESH-1000924	01-Mar-19	0.02 j	0.000075 jd	0.00069 jd	0.0045	<0.0005	0.023 j	<0.000038	<0.0010	<0.0007	<0.00036	---	0.091 j	<0.000065	0.0069 j	---	<0.001	<0.0014	0.0006 jd	<0.000036	---	<0.00003	0.002 j	SVL
RC19-8	RESH-1001007	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8	RESH-1001007	18-Nov-19	<0.05	<0.00023	0.00080 j	0.0089	<0.0008	0.033 j	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	0.00024 j	<0.0034	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.159	SVL
RC19-8	RESH-1001007	18-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8	RESH-1001007	18-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	0.65 j	---	---	SVL
RC19-8	RESH-1001007	18-Nov-19	<0.03	<0.00023	0.00080 j	0.0090	<0.0004	0.027 j	<0.000063	0.0012 j	0.0009 j	<0.00036	---	0.039 j	0.00027 j	0.0018 j	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	0.327	SVL
RC19-8B	RESH-1000970	16-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8B	RESH-1000970	16-Aug-19	<0.05	<0.00023	0.00061 j	0.0108	<0.0008	0.026 j	<0.000063	<0.0020	<0.0016	0.00316	---	<0.056	0.00035 j	<0.0034	---	<0.003	0.0105	0.0004 j	<0.000061	---	<0.00008	0.023	SVL
RC19-8B	RESH-1000970	16-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8B	RESH-1000970	16-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.37 j	---	---	SVL
RC19-8B	RESH-1000970	16-Aug-19	<0.03	<0.00023	0.00064 j	0.0114	<0.0004	0.026 j	<0.000063	<0.0010	<0.0008	0.00259	---	<0.028	0.00048 j	0.0018 j	---	<0.002	0.0100	0.0004 j	<0.000061	---	<0.00008	0.023	SVL
RC19-8B	RESH-1001019	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8B	RESH-1001019	21-Nov-19	<0.05	<0.00023	0.00068 j	0.0113	<0.0008	0.038 j	<0.000063	<0.0020	<0.0016	0.00064 j	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0003 j	<0.000061	---	<0.00008	0.299	SVL
RC19-8B	RESH-1001019	21-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8B	RESH-1001019	21-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC19-8B	RESH-1001019	21-Nov-19	<0.03	<0.00023	0.00065 j	0.0112	<0.0004	0.047	<0.000063	<0.0010	<0.0008	0.00134	---	<0.028	<0.00014	<0.0017	---	<0.002	<0.0012	0.0004 j	<0.000061	---	<0.00008	0.333	SVL

TABLE A-2. TRACE CONSTITUENTS
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																				ANALYTICAL LABORATORY		
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S		Tl	Zn
Groundwater 6 - Skunk Camp System																									
RC19-8D	RESH-1000963	21-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
RC19-8D	RESH-1000963	21-Jul-19	<0.05	<0.00023	0.00072 j	0.0046	<0.0008	0.021 j	<0.000063	<0.0020	<0.0016	0.00061 j	---	<0.056	<0.00014	0.0045 j	---	<0.003	<0.0023	0.0007 j	<0.000061	---	<0.00008	<0.005	SVL
RC19-8D	RESH-1000963	21-Jul-19	---	---	---	---	---	---	---	---	---	---	r	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
RC19-8D	RESH-1000963	21-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
RC19-8D	RESH-1000963	21-Jul-19	<0.03	<0.00023	0.00068 j	0.0042	<0.0004	0.025 j	<0.000063	<0.0010	<0.0008	<0.00036	---	0.068 j	<0.00014	0.0040 j	---	<0.002	<0.0012	0.0006 j	<0.000061	---	<0.00008	<0.003	SVL
Groundwater 7 - Mineral Creek																									
55-615260	RESH-1000967	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
55-615260	RESH-1000967	14-Aug-19	<0.05	<0.00023	0.00098 j	0.111	<0.0008	0.037 j	<0.000063	<0.0020	<0.0016	0.00036 j	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0007 j	<0.000061	---	<0.00008	<0.005	SVL
55-615260	RESH-1000967	14-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
55-615260	RESH-1000967	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
55-615260	RESH-1000967	14-Aug-19	<0.03	<0.00023	0.00106 j	0.113	0.0004 j	0.040	<0.000063	<0.0010	r	<0.00036	---	0.064 j	<0.00014	0.0030 j	---	0.002 j	0.0034 j	0.0006 j	<0.000061	---	<0.00008	0.004 j	SVL
55-615260	RESH-1001000	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
55-615260	RESH-1001000	14-Nov-19	<0.05	<0.00023	0.00115 j	0.110	<0.0008	0.039 j	<0.000063	<0.0020	<0.0016	0.00065 j	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0007 j	<0.000061	---	<0.00008	<0.005	SVL
55-615260	RESH-1001000	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
55-615260	RESH-1001000	14-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
55-615260	RESH-1001000	14-Nov-19	<0.03	<0.00023	0.00123 j	0.110	<0.0004	0.040	<0.000063	<0.0010	<0.0008	<0.00036	---	<0.028	<0.00014	<0.0017	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	r	SVL
55-632793	RESH-1000913	15-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.000018	---	---	---	---	---	---	---	Anatek
55-632793	RESH-1000913	15-Jan-19	<0.05	<0.00023	0.00103 jd	0.0250	<0.0017	0.026 j	<0.000063	<0.0020	<0.0016	0.0114	---	<0.056	0.00050 jd	<0.0034	---	<0.003	<0.0023	0.0004 jd	<0.000061	---	<0.00008	0.318	SVL
55-632793	RESH-1000913	15-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000144	---	---	---	---	---	---	---	Anatek
55-632793	RESH-1000913	15-Jan-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	0.40 j	---	---	SVL
55-632793	RESH-1000913	15-Jan-19	<0.02	0.00015 jd	0.00117 jd	0.0280	<0.0005	0.026 j	<0.000038	<0.0010	<0.0007	0.0151	---	0.101	0.00132 jd	<0.0025	---	0.001 j	<0.0014	0.0005 jd	<0.000036	---	<0.00003	0.319	SVL
55-632793	RESH-1001005	15-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
55-632793	RESH-1001005	15-Nov-19	<0.05	<0.00023	0.00102 j	0.0287	<0.0008	0.030 j	<0.000063	<0.0020	<0.0016	0.00704	---	<0.056	0.00036 j	<0.0034	---	<0.003	<0.0023	0.0004 j	<0.000061	---	<0.00008	0.245	SVL
55-632793	RESH-1001005	15-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
55-632793	RESH-1001005	15-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.04	---	---	SVL
55-632793	RESH-1001005	15-Nov-19	<0.03	<0.00023	0.00112 j	0.0291	<0.0004	0.028 j	<0.000063	<0.0010	<0.0008	0.00709	---	<0.028	0.00053 j	<0.0017	---	<0.002	<0.0012	0.0004 j	<0.000061	---	<0.00008	0.226	SVL
RC18-4	RESH-1001024	26-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
RC18-4	RESH-1001024	26-Nov-19	<0.05	<0.00023	0.00079 j	0.0728	<0.0008	0.053	<0.000063	<0.0020	<0.0016	0.00180	---	0.110	<0.00014	0.0578	---	<0.003	<0.0023	0.0003 j	<0.000061	---	<0.00008	0.235	SVL
RC18-4	RESH-1001024	26-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek
RC18-4	RESH-1001024	26-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
RC18-4	RESH-1001024	26-Nov-19	0.05 j	<0.00023	0.00090 j	0.0669	<0.0004	0.064	<0.000063	0.0010 j	<0.0008	0.00119	---	0.555	<0.00014	0.0631	---	<0.002	<0.0012	0.0004 j	<0.000061	---	<0.00008	0.273	SVL
Arizona Numeric Aquifer Water Quality Standards			---	0.006	0.05	2.0	0.004	---	0.005	0.1	---	---	0.20	---	0.05	---	0.002	---	0.1	0.05	---	---	0.002	---	

Values in red are above Arizona numeric water quality standards
Values in blue indicate that detection limit exceeds Arizona numeric water quality standard

--- = Not available, not applicable
-- = Not calculated due to non-detect

Shading indicates dissolved results
 Shading indicates total results
 Shading indicates total recoverable results
 Shading indicates unknown filtration or no filtration method provided for analyses

^a Al = Aluminum
Sb = Antimony
As = Arsenic
Ba = Barium
Be = Beryllium
B = Boron
Cd = Cadmium
Cr = Chromium (total)
Co = Cobalt
Cu = Copper
CN = Cyanide (amenable)

Fe = Iron
Pb = Lead
Mn = Manganese
Hg = Mercury
Mo = Molybdenum
Ni = Nickel
Se = Selenium
Ag = Silver
S = Sulfide
Tl = Thallium
Zn = Zinc

^b mg/L = milligrams per liter

Explanation of Codes

Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicate
SP = Split sample
SPD = Split-Duplicate



TABLE A-3. RADIOISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Groundwater 6 - Skunk Camp System											
55-205266	RESH-1000896	09-Nov-18	---	---	---	---	<1.1	<1.9	1.45 ± 1.1	---	ACZ
55-205266	RESH-1001022	25-Nov-19	---	---	---	---	1.1 ± 1.1	<1	<1.3	---	ACZ
55-205266	RESH-1001022	25-Nov-19	---	89.69 ± 0.33	---	---	---	---	---	---	Beta Analytic
55-205266	RESH-1001022	25-Nov-19	0.92 ± 0.19	---	---	---	---	---	---	---	Isotech
55-502917	RESH-1000962	16-Jul-19	---	---	---	---	2.7 ± 1.4	<0.58	2.3 ± 1.3	1.2	ACZ
55-502917	RESH-1000962	16-Jul-19	---	43.87 ± 0.16	---	---	---	---	---	---	Beta Analytic
55-502917	RESH-1000962	16-Jul-19	5.01 ± 0.26	---	---	---	---	---	---	---	Isotech
55-502917	RESH-1001008	18-Nov-19	---	---	---	---	<2.8	<0.89	<1.6	---	ACZ
55-502917	RESH-1001008	18-Nov-19	---	44.25 ± 0.16	---	---	---	---	---	---	Beta Analytic
55-502917	RESH-1001008	18-Nov-19	<0.56	---	---	---	---	---	---	---	Isotech
55-632797	RESH-1000941	16-Apr-19	---	---	---	---	<2.1	<0.56	<1.8	---	ACZ
55-632797	RESH-1000941	16-Apr-19	---	103.86 ± 0.38	---	---	---	---	---	---	Beta Analytic
55-632797	RESH-1000941	16-Apr-19	3.00 ± 0.28	---	---	---	---	---	---	---	Isotech
55-632797	RESH-1001038	18-Dec-19	---	---	---	---	<0.88	<1	<1.3	---	ACZ
55-632797	RESH-1001038	18-Dec-19	---	100.09 ± 0.37	---	---	---	---	---	---	Beta Analytic
55-632800	RESH-1001039	18-Dec-19	---	---	---	---	<1	<0.74	<0.73	---	ACZ
55-632800	RESH-1001039	18-Dec-19	---	91.43 ± 0.33	---	---	---	---	---	---	Beta Analytic
55-807702	RESH-1000969	14-Aug-19	---	---	---	---	1.8 ± 1	<0.66	<0.81	---	ACZ
55-807702	RESH-1000969	14-Aug-19	---	47.03 ± 0.17	---	---	---	---	---	---	Beta Analytic
55-807702	RESH-1000969	14-Aug-19	<0.43	---	---	---	---	---	---	---	Isotech
55-807702	RESH-1001014	19-Nov-19	---	---	---	---	1.9 ± 1.1	<1	2.32 ± 1.1	0.80	ACZ
55-807702	RESH-1001014	19-Nov-19	---	45.95 ± 0.17	---	---	---	---	---	---	Beta Analytic
55-807702	RESH-1001014	19-Nov-19	<0.75	---	---	---	---	---	---	---	Isotech
55-807702 DUP	RESH-1001015	19-Nov-19	---	---	---	---	1.9 ± 1	<0.62	<1.2	---	ACZ
55-808287	RESH-1000971	20-Aug-19	---	---	---	---	1.9 ± 1.3	<1.3	1.6 ± 0.95	1.2	ACZ
55-808287	RESH-1000971	20-Aug-19	---	48.62 ± 0.18	---	---	---	---	---	---	Beta Analytic
55-808287	RESH-1000971	20-Aug-19	<0.41	---	---	---	---	---	---	---	Isotech
55-808287	RESH-1001017	21-Nov-19	---	---	---	---	2.9 ± 1.1	<0.6	1.63 ± 0.82	1.8	ACZ
55-808287	RESH-1001017	21-Nov-19	---	48.73 ± 0.18	---	---	---	---	---	---	Beta Analytic
55-808287	RESH-1001017	21-Nov-19	<0.43	---	---	---	---	---	---	---	Isotech
55-808287 DUP	RESH-1001018	21-Nov-19	---	---	---	---	3.5 ± 1.4	<1.3	1.8 ± 1	1.9	ACZ
35-17570	RESH-1000972	23-Aug-19	---	---	---	---	1.5 ± 0.95	<0.56	1.73 ± 0.91	0.9	ACZ
35-17570	RESH-1000972	23-Aug-19	---	83.34 ± 0.3	---	---	---	---	---	---	Beta Analytic
35-17570	RESH-1000972	23-Aug-19	0.80 ± 0.16	---	---	---	---	---	---	---	Isotech

TABLE A-3. RADIOISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Groundwater 6 - Skunk Camp System											
35-17570	RESH-1001006	18-Nov-19	---	---	---	---	<3.6	<1.9	<4	---	ACZ
35-17570	RESH-1001006	18-Nov-19	---	81.18 ± 0.3	---	---	---	---	---	---	Beta Analytic
35-17570	RESH-1001006	18-Nov-19	0.87 ± 0.2	---	---	---	---	---	---	---	Isotech
55-632794	RESH-1000915	21-Jan-19	---	---	---	---	1.2 ± 1	<1.9	<0.97	---	ACZ
55-632794	RESH-1000915	21-Jan-19	---	66.53 ± 0.24	---	---	---	---	---	---	Beta Analytic
55-632794	RESH-1000915	21-Jan-19	0.77 ± 0.2	---	---	---	---	---	---	---	Isotech
55-632794	RESH-1001013	19-Nov-19	---	---	---	---	<2.3	<2.6	<1.8	---	ACZ
55-632794	RESH-1001013	19-Nov-19	---	64.28 ± 0.23	---	---	---	---	---	---	Beta Analytic
55-632794	RESH-1001013	19-Nov-19	<0.98	---	---	---	---	---	---	---	Isotech
RC18-9	RESH-1000918	27-Jan-19	---	---	---	---	2.2 ± 1.1	<0.71	<0.87	---	ACZ
RC18-9	RESH-1000918	27-Jan-19	---	50.33 ± 0.18	---	---	---	---	---	---	Beta Analytic
RC18-9	RESH-1000918	27-Jan-19	<0.49	---	---	---	---	---	---	---	Isotech
RC18-9	RESH-1001016	21-Nov-19	---	---	---	---	3.6 ± 1.3	<0.66	1.7 ± 0.95	2.1	ACZ
RC18-9	RESH-1001016	21-Nov-19	---	50.60 ± 0.18	---	---	---	---	---	---	Beta Analytic
RC18-9	RESH-1001016	21-Nov-19	<0.49	---	---	---	---	---	---	---	Isotech
RC19-10	RESH-1000994	12-Nov-19	---	---	---	---	4.8 ± 1.6	<0.79	<1.4	---	ACZ
RC19-10	RESH-1000994	12-Nov-19	---	27.75 ± 0.1	---	---	---	---	---	---	Beta Analytic
RC19-10	RESH-1000994	12-Nov-19	<0.49	---	---	---	---	---	---	---	Isotech
RC19-13	RESH-1000957	22-Jun-19	---	---	---	---	<3.6	<1.9	<4	---	ACZ
RC19-13	RESH-1000957	22-Jun-19	---	78.24 ± 0.28	---	---	---	---	---	---	Beta Analytic
RC19-13	RESH-1001012	19-Nov-19	---	---	---	---	2 ± 1.1	<1.1	0.87 ± 0.77	2	ACZ
RC19-13	RESH-1001012	19-Nov-19	---	77.54 ± 0.28	---	---	---	---	---	---	Beta Analytic
RC19-13	RESH-1001012	19-Nov-19	<0.55	---	---	---	---	---	---	---	Isotech
RC19-15	RESH-1000965	07-Aug-19	---	---	---	---	<1.8	<0.49	<1.6	---	ACZ
RC19-15	RESH-1000965	07-Aug-19	---	59.27 ± 0.22	---	---	---	---	---	---	Beta Analytic
RC19-15	RESH-1000965	07-Aug-19	<0.53	---	---	---	---	---	---	---	Isotech
RC19-15	RESH-1001023	25-Nov-19	---	---	---	---	1.8 ± 1.2	<0.79	1.15 ± 0.89	1.6	ACZ
RC19-15	RESH-1001023	25-Nov-19	---	72.62 ± 0.26	---	---	---	---	---	---	Beta Analytic
RC19-15	RESH-1001023	25-Nov-19	<0.50	---	---	---	---	---	---	---	Isotech
RC19-3	RESH-1000973	25-Aug-19	---	---	---	---	1.5 ± 1.1	<0.77	1.19 ± 0.89	1.3	ACZ
RC19-3	RESH-1000973	25-Aug-19	---	22.17 ± 0.11	---	---	---	---	---	---	Beta Analytic
RC19-3	RESH-1000973	25-Aug-19	<0.50	---	---	---	---	---	---	---	Isotech
RC19-3	RESH-1001010	18-Nov-19	---	---	---	---	<3.6	<1.9	<4	---	ACZ
RC19-3	RESH-1001010	18-Nov-19	---	23.68 ± 0.09	---	---	---	---	---	---	Beta Analytic
RC19-3	RESH-1001010	18-Nov-19	<0.45	---	---	---	---	---	---	---	Isotech

TABLE A-3. RADIOISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Groundwater 6 - Skunk Camp System											
RC19-7	RESH-1000960	10-Jul-19	---	---	---	---	<1	1.2 ± 1.1	<1.5	---	ACZ
RC19-7	RESH-1000960	10-Jul-19	---	46.46 ± 0.17	---	---	---	---	---	---	Beta Analytic
RC19-7	RESH-1000960	10-Jul-19	<0.91	---	---	---	---	---	---	---	Isotech
RC19-7	RESH-1001020	25-Nov-19	---	---	---	---	2.4 ± 1.2	<1.9	1.49 ± 1.1	1.6	ACZ
RC19-7	RESH-1001020	25-Nov-19	---	45.00 ± 0.16	---	---	---	---	---	---	Beta Analytic
RC19-7	RESH-1001020	25-Nov-19	<0.85	---	---	---	---	---	---	---	Isotech
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	---	---	2.7 ± 1.3	<0.86	1.98 ± 1.1	1.4	ACZ
RC19-7_Upper	RESH-1000959	04-Jul-19	---	53.23 ± 0.19	---	---	---	---	---	---	Beta Analytic
RC19-7_Upper	RESH-1000959	04-Jul-19	<0.46	---	---	---	---	---	---	---	Isotech
RC19-8	RESH-1000924	01-Mar-19	---	---	---	---	4.2 ± 1.6	<0.77	2 ± 1.2	2.1	ACZ
RC19-8	RESH-1001007	18-Nov-19	---	---	---	---	1.8 ± 1	<1.1	<1.1	---	ACZ
RC19-8	RESH-1001007	18-Nov-19	---	61.13 ± 0.22	---	---	---	---	---	---	Beta Analytic
RC19-8	RESH-1001007	18-Nov-19	<0.50	---	---	---	---	---	---	---	Isotech
RC19-8B	RESH-1000970	16-Aug-19	---	---	---	---	<2.2	<0.59	<1.9	---	ACZ
RC19-8B	RESH-1000970	16-Aug-19	---	70.75 ± 0.26	---	---	---	---	---	---	Beta Analytic
RC19-8B	RESH-1000970	16-Aug-19	<1.01	---	---	---	---	---	---	---	Isotech
RC19-8B	RESH-1001019	21-Nov-19	---	---	---	---	3.2 ± 1.6	<0.89	<1.6	---	ACZ
RC19-8B	RESH-1001019	21-Nov-19	---	64.02 ± 0.23	---	---	---	---	---	---	Beta Analytic
RC19-8B	RESH-1001019	21-Nov-19	0.81 ± 0.18	---	---	---	---	---	---	---	Isotech
RC19-8D	RESH-1000963	21-Jul-19	---	---	---	---	1.2 ± 0.98	<0.33	1.41 ± 0.91	0.9	ACZ
RC19-8D	RESH-1000963	21-Jul-19	---	54.81 ± 0.2	---	---	---	---	---	---	Beta Analytic
RC19-8D	RESH-1000963	21-Jul-19	2.23 ± 0.28	---	---	---	---	---	---	---	Isotech
Groundwater 7 - Mineral Creek											
55-615260	RESH-1000967	14-Aug-19	---	---	---	---	2 ± 1.2	<0.79	1.7 ± 1	1.0	ACZ
55-615260	RESH-1000967	14-Aug-19	---	99.02 ± 0.36	---	---	---	---	---	---	Beta Analytic
55-615260	RESH-1000967	14-Aug-19	1.39 ± 0.23	---	---	---	---	---	---	---	Isotech
55-615260	RESH-1001000	14-Nov-19	---	---	---	---	2.8 ± 1.2	0.7 ± 0.68	2.04 ± 1.1	1.4	ACZ
55-615260	RESH-1001000	14-Nov-19	---	99.87 ± 0.36	---	---	---	---	---	---	Beta Analytic
55-615260	RESH-1001000	14-Nov-19	0.91 ± 0.28	---	---	---	---	---	---	---	Isotech
55-632793	RESH-1000913	15-Jan-19	---	---	---	---	<2.2	<0.6	<1.9	---	ACZ
55-632793	RESH-1000913	15-Jan-19	---	104.50 ± 0.38	---	---	---	---	---	---	Beta Analytic
55-632793	RESH-1000913	15-Jan-19	2.24 ± 0.2	---	---	---	---	---	---	---	Isotech
55-632793	RESH-1001005	15-Nov-19	---	---	---	---	<4	<2	<4.4	---	ACZ
55-632793	RESH-1001005	15-Nov-19	---	100.61 ± 0.37	---	---	---	---	---	---	Beta Analytic
55-632793	RESH-1001005	15-Nov-19	1.62 ± 0.21	---	---	---	---	---	---	---	Isotech

TABLE A-3. RADIOISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Groundwater 7 - Mineral Creek											
RC18-4	RESH-1001024	26-Nov-19	---	---	---	---	2.7 ± 1.3	<0.71	1.27 ± 0.87	2.1	ACZ
RC18-4	RESH-1001024	26-Nov-19	---	81.19 ± 0.29	---	---	---	---	---	---	Beta Analytic
RC18-4	RESH-1001024	26-Nov-19	<0.56	---	---	---	---	---	---	---	Isotech

a ³H = Tritium; tritium unit (1 TU = 1 tritium atom per 10¹⁸ atoms of hydrogen)
b ¹⁴C = carbon-14; pmC = percent modern carbon
c Sr = strontium; ppm = parts per million
d Mass of strontium-87 isotope divided by mass of strontium-86 isotope
e Uranium-234 isotope; pCi/L = activity in picoCuries per liter
f Uranium-235 isotope; pCi/L = activity in picoCuries per liter
g Uranium-238 isotope; pCi/L = activity in picoCuries per liter
h Activity of uranium-234 isotope divided by activity of uranium-238 isotope

--- = Not available, not applicable
-- = Not calculated due to non-detect

Explanation of Codes

Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicates
SP = Split samples
SPD = Split-Duplicates



TABLE A-4. RADIOLOGICAL DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOLOGICAL CONSTITUENTS ^a									ANALYTICAL LABORATORY
			Adjusted Gross Alpha ^b (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	Ra-226 (pCi/L)	Ra-228 (pCi/L)	Ra-226 + Ra-228 (pCi/L)	Total Th (mg/L) ^c	Total U (pCi/L)	Total U (mg/L)	
Groundwater 6 - Skunk Camp System												
55-205266	RESH-1000896	09-Nov-18	-1.9	<8.6	<5.7	0.14 ± 0.07	0.82 ± 0.75	0.96	---	---	0.0007	ACZ
55-205266	RESH-1001022	25-Nov-19	-2.3	<7.5	<5.3	0.18 ± 0.07	<1.9	0.18	<0.001	---	0.0006	ACZ
55-502917	RESH-1000962	16-Jul-19	---	-1.7	<6.9	<0.29	2.9 ± 2	2.90	<0.001	---	0.0011	ACZ
55-502917	RESH-1001008	18-Nov-19	2.8	<10	<11	0.14 ± 0.06	<1.9	0.14	<0.001	---	0.0011	ACZ
55-632797	RESH-1000941	16-Apr-19	1.3	<8.6	<7	<0.1	0.95 ± 0.71	1.0	<0.001	---	0.0008	ACZ
55-632797	RESH-1001038	18-Dec-19	-0.69	<8.2	<6.8	<0.25	<1.9	ND	<0.001	---	0.001	ACZ
55-632800	RESH-1001039	18-Dec-19	1.4	<19	<18	0.2 ± 0.07	<1.6	0.2	<0.001	---	0.0006	ACZ
55-807702	RESH-1000969	14-Aug-19	3.5	5.3 ± 2.7	<7.3	0.33 ± 0.08	<0.71	0.33	<0.001	---	0.0006	ACZ
55-807702	RESH-1001014	19-Nov-19	-3.4	<6.6	<5.2	<0.36	<1.8	ND	<0.001	---	0.0007	ACZ
55-807702 DUP	RESH-1001015	19-Nov-19	-1.8	<16	<18.0	0.29 ± 0.09	<1.6	0.29	<0.001	---	0.0008	ACZ
55-808287	RESH-1000971	20-Aug-19	-4.9	<8.3	<12	0.2 ± 0.12	<0.94	0.2	<0.001	---	0.001	ACZ
55-808287	RESH-1001017	21-Nov-19	2.0	<11	<12	0.16 ± 0.08	<2	0.16	<0.001	---	0.0009	ACZ
55-808287 DUP	RESH-1001018	21-Nov-19	-4.7	<5.2	<9.2	0.35 ± 0.1	<1.8	0.35	<0.001	---	0.0009	ACZ
35-17570	RESH-1000972	23-Aug-19	-3.6	<9	<7.1	0.28 ± 0.11	<0.76	0.28	<0.001	---	0.0013	ACZ
35-17570	RESH-1001006	18-Nov-19	0.52	<6.3	<9.3	0.23 ± 0.08	<2	0.23	<0.001	---	0.0016	ACZ
55-632794	RESH-1000915	21-Jan-19	2.7	<6.8	<7.6	0.68 ± 0.58	3.6 ± 1.5	4.28	---	---	0.0005	ACZ
55-632794	RESH-1001013	19-Nov-19	4.1	<9.4	<6.9	0.09 ± 0.08	<2	0.09	<0.001	---	0.0005	ACZ
RC18-9	RESH-1000918	27-Jan-19	-2.1	<14	<8.5	<0.3	<0.92	ND	---	---	0.001	ACZ
RC18-9	RESH-1001016	21-Nov-19	-1.00	<6.2	<9.1	0.18 ± 0.07	<1.8	0.18	<0.001	---	0.0011	ACZ
RC19-10	RESH-1000994	12-Nov-19	-5.0	<19	<19	0.34 ± 0.11	<2.1	0.34	<0.002	---	0.0009 j	ACZ
RC19-13	RESH-1000957	22-Jun-19	3.1	<9	<5.7	0.26 ± 0.14	<0.77	0.26	<0.001	---	0.0004 j	ACZ
RC19-13	RESH-1001012	19-Nov-19	1.2	<18	<19	0.16 ± 0.06	<1.9	0.16	<0.001	---	0.0004 j	ACZ
RC19-15	RESH-1000965	07-Aug-19	-1.1	<7.7	<6.9	<0.12	<0.9	ND	<0.001	---	0.0008	ACZ
RC19-15	RESH-1001023	25-Nov-19	-4.6	<5.9	<9	0.16 ± 0.11	<1.9	0.16	<0.001	---	0.0005	ACZ
RC19-3	RESH-1000973	25-Aug-19	-2.2	<6.9	<7.6	0.26 ± 0.14	<0.78	0.26	<0.001	---	0.0007	ACZ
RC19-3	RESH-1001010	18-Nov-19	1.00	<7.1	<6.7	0.1 ± 0.05	<1.9	0.1	<0.001	---	0.0007	ACZ
RC19-7	RESH-1000960	10-Jul-19	-1.5	<6.4	<7.5	0.19 ± 0.09	<0.89	0.19	<0.001	---	0.0004 j	ACZ
RC19-7	RESH-1001020	25-Nov-19	-4.7	<18	<19	0.33 ± 0.09	<1.6	0.33	<0.001	---	0.0006	ACZ
RC19-7_Upper	RESH-1000959	04-Jul-19	-5.7	<6.5	<4.3	0.2 ± 0.1	<1	0.2	<0.001	---	0.0004 j	ACZ
RC19-8	RESH-1000924	01-Mar-19	-5.9	<12	<8.4	<0.08	<1.1	ND	---	---	0.0006	ACZ
RC19-8	RESH-1001007	18-Nov-19	-1.5	<6.8	<5.2	0.2 ± 0.07	<1.8	0.2	<0.001	---	0.0006	ACZ
RC19-8B	RESH-1000970	16-Aug-19	-0.60	<6.8	<6.8	<0.14	<0.93	ND	<0.001	---	0.0007	ACZ
RC19-8B	RESH-1001019	21-Nov-19	3.2	<7.4	<6.7	0.18 ± 0.07	<1.9	0.18	<0.001	---	0.0006	ACZ
RC19-8D	RESH-1000963	21-Jul-19	5.3	7.9 ± 3.3	<4.2	0.24 ± 0.11	<2.1	0.24	<0.001	---	0.0006	ACZ
Groundwater 7 - Mineral Creek												
55-615260	RESH-1000967	14-Aug-19	2.5	6.2 ± 3.1	6.1 ± 2.9	0.54 ± 0.11	0.87 ± 0.79	1.41	<0.001	---	0.0014	ACZ
55-615260	RESH-1001000	14-Nov-19	-1.5	<7.2	<9.5	0.5 ± 0.1	<1.9	0.5	<0.001	---	0.0014	ACZ
55-632793	RESH-1000913	15-Jan-19	4.0	<9	<5.7	<0.27	<0.69	ND	---	---	0.0016	ACZ
55-632793	RESH-1001005	15-Nov-19	0	<8.7	<5.4	0.19 ± 0.1	<1.8	0.19	<0.001	---	0.0019	ACZ
RC18-4	RESH-1001024	26-Nov-19	-3.3	<13	<12	0.17 ± 0.08	<1.8	0.17	<0.001	---	0.0014	ACZ

TABLE A-4. RADIOLOGICAL DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOLOGICAL CONSTITUENTS ^a									ANALYTICAL LABORATORY
			Adjusted Gross Alpha ^b (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	Ra-226 (pCi/L)	Ra-228 (pCi/L)	Ra-226 + Ra-228 (pCi/L)	Total Th (mg/L) ^c	Total U (pCi/L)	Total U (mg/L)	
Arizona Numeric Aquifer Water Quality Standards			15 pCi/L	---	50 pCi/L	---	---	5 pCi/L	---	---	---	

Values in red are above Arizona numeric water quality standards

Values in blue indicate that detection limit exceeds Arizona numeric water quality standard

^a Ra-226 = Radium 226
Ra-228 = Radium 228
U = Uranium
Th = Thorium

^b pCi/L = picocuries per liter

^d pCi/L alert level for EPA and Arizona Numeric Standard of 4 mrem/year (milliroentgen equivalent man per year)

^c mg/L = milligrams per liter

[<] = Less than reported detection limit
--- = Not available, not applicable
-- = Not calculated due to non-detect

Explanation of Codes

Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

Present = Analyte was detected
q = Uncertain value
r = Unusable data
[<] = Less than reported detection limit
[>] = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicate
SP = Split sample
SPD = Split-Duplicate

**TABLE A-5. STABLE ISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020A**

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	ISOTOPES					ANALYTICAL LABORATORY
			$\delta^{18}\text{O}^{\text{a}}$ (‰)	$\delta\text{D}^{\text{b}}$ (‰)	$\delta^{13}\text{C}$ in DIC ^c (‰)	$\delta^{34}\text{S}^{\text{d}}$ (‰)	$\delta^{18}\text{O}$ in SO_4^{e} (‰)	
Groundwater 6 - Skunk Camp System								
55-205266	RESH-1001022	25-Nov-19	---	---	-11.20	---	---	Beta Analytic
55-205266	RESH-1001022	25-Nov-19	-10.41	-72.9	---	3.3	---	Isotech
55-502917	RESH-1000962	16-Jul-19	---	---	-10.30	---	---	Beta Analytic
55-502917	RESH-1000962	16-Jul-19	-9.08	-67.4	---	7.9	---	Isotech
55-502917	RESH-1001008	18-Nov-19	---	---	-9.70	---	---	Beta Analytic
55-502917	RESH-1001008	18-Nov-19	-9.09	-67.6	---	8.1	---	Isotech
55-632797	RESH-1000941	16-Apr-19	---	---	-12.50	---	---	Beta Analytic
55-632797	RESH-1000941	16-Apr-19	-8.76	-61.0	---	-0.4	---	Isotech
55-632797	RESH-1001038	18-Dec-19	---	---	-13.60	---	---	Beta Analytic
55-632800	RESH-1001039	18-Dec-19	---	---	-12.80	---	---	Beta Analytic
55-807702	RESH-1000969	14-Aug-19	---	---	-9.70	---	---	Beta Analytic
55-807702	RESH-1000969	14-Aug-19	-9.00	-66.4	---	8.4	---	Isotech
55-807702	RESH-1001014	19-Nov-19	---	---	-9.50	---	---	Beta Analytic
55-807702	RESH-1001014	19-Nov-19	-9.13	-67.1	---	9.0	---	Isotech
55-808287	RESH-1000971	20-Aug-19	---	---	-10.50	---	---	Beta Analytic
55-808287	RESH-1000971	20-Aug-19	-9.35	-69.1	---	8.8	---	Isotech
55-808287	RESH-1001017	21-Nov-19	---	---	-10.00	---	---	Beta Analytic
55-808287	RESH-1001017	21-Nov-19	-9.98	-71.1	---	8.7	---	Isotech
35-17570	RESH-1000972	23-Aug-19	---	---	-12.40	---	---	Beta Analytic
35-17570	RESH-1000972	23-Aug-19	-9.59	-68.1	---	1.8	---	Isotech
35-17570	RESH-1001006	18-Nov-19	---	---	-12.50	---	---	Beta Analytic
35-17570	RESH-1001006	18-Nov-19	-9.55	-68.2	---	1.5	---	Isotech
55-632794	RESH-1000915	21-Jan-19	---	---	-11.20	---	---	Beta Analytic
55-632794	RESH-1000915	21-Jan-19	-9.30	-66.8	---	7.2	---	Isotech
55-632794	RESH-1001013	19-Nov-19	---	---	-11.50	---	---	Beta Analytic
55-632794	RESH-1001013	19-Nov-19	-9.27	-66.9	---	6.5	---	Isotech
RC18-9	RESH-1000918	27-Jan-19	---	---	-11.90	---	---	Beta Analytic
RC18-9	RESH-1000918	27-Jan-19	-9.47	-67.3	---	9.2	---	Isotech
RC18-9	RESH-1001016	21-Nov-19	---	---	-12.30	---	---	Beta Analytic
RC18-9	RESH-1001016	21-Nov-19	-9.38	-67.4	---	9.5	---	Isotech
RC19-10	RESH-1000994	12-Nov-19	---	---	-13.90	---	---	Beta Analytic
RC19-10	RESH-1000994	12-Nov-19	-9.42	-67.1	---	9.0	---	Isotech
RC19-13	RESH-1000957	22-Jun-19	---	---	-9.80	---	---	Beta Analytic
RC19-13	RESH-1000957	22-Jun-19	-9.49	-69.0	---	7.3	---	Isotech

**TABLE A-5. STABLE ISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020A**

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	ISOTOPES					ANALYTICAL LABORATORY
			δ ¹⁸ O ^a (‰)	δD ^b (‰)	δ ¹³ C in DIC ^c (‰)	δ ³⁴ S ^d (‰)	δ ¹⁸ O in SO ₄ ^e (‰)	
Groundwater 6 - Skunk Camp System								
RC19-13	RESH-1001012	19-Nov-19	---	---	-9.90	---	---	Beta Analytic
RC19-13	RESH-1001012	19-Nov-19	-9.54	-69.6	---	7.7	---	Isotech
RC19-15	RESH-1000965	07-Aug-19	---	---	-11.70	---	---	Beta Analytic
RC19-15	RESH-1000965	07-Aug-19	-9.38	-68.0	---	8.9	---	Isotech
RC19-15	RESH-1001023	25-Nov-19	---	---	-10.90	---	---	Beta Analytic
RC19-15	RESH-1001023	25-Nov-19	-9.42	-67.7	---	10.6	---	Isotech
RC19-3	RESH-1000973	25-Aug-19	---	---	-10.40	---	---	Beta Analytic
RC19-3	RESH-1000973	25-Aug-19	-10.21	-70.8	---	7.6	---	Isotech
RC19-3	RESH-1001010	18-Nov-19	---	---	-10.40	---	---	Beta Analytic
RC19-3	RESH-1001010	18-Nov-19	-10.20	-71.4	---	7.3	---	Isotech
RC19-7	RESH-1000960	10-Jul-19	---	---	-9.00	---	---	Beta Analytic
RC19-7	RESH-1000960	10-Jul-19	-9.98	-71.3	---	9.4	---	Isotech
RC19-7	RESH-1001020	25-Nov-19	---	---	-8.70	---	---	Beta Analytic
RC19-7	RESH-1001020	25-Nov-19	-9.75	-69.3	---	11.1	---	Isotech
RC19-7_Upper	RESH-1000959	04-Jul-19	---	---	-8.10	---	---	Beta Analytic
RC19-7_Upper	RESH-1000959	04-Jul-19	-9.90	-70.4	---	8.7	---	Isotech
RC19-8	RESH-1001007	18-Nov-19	---	---	-10.60	---	---	Beta Analytic
RC19-8	RESH-1001007	18-Nov-19	-9.16	-67.1	---	10.8	---	Isotech
RC19-8B	RESH-1000970	16-Aug-19	---	---	-11.50	---	---	Beta Analytic
RC19-8B	RESH-1000970	16-Aug-19	-9.79	-68.8	---	6.6	---	Isotech
RC19-8B	RESH-1001019	21-Nov-19	---	---	-11.70	---	---	Beta Analytic
RC19-8B	RESH-1001019	21-Nov-19	-9.31	-68.8	---	6.0	---	Isotech
RC19-8D	RESH-1000963	21-Jul-19	---	---	-10.90	---	---	Beta Analytic
RC19-8D	RESH-1000963	21-Jul-19	-9.65	-70.2	---	9.5	---	Isotech
Groundwater 7 - Mineral Creek								
55-615260	RESH-1000967	14-Aug-19	---	---	-12.70	---	---	Beta Analytic
55-615260	RESH-1000967	14-Aug-19	-8.89	-60.8	---	3.3	---	Isotech
55-615260	RESH-1001000	14-Nov-19	---	---	-12.20	---	---	Beta Analytic
55-615260	RESH-1001000	14-Nov-19	-9.00	-62.2	---	3.3	---	Isotech
55-632793	RESH-1000913	15-Jan-19	---	---	-12.00	---	---	Beta Analytic
55-632793	RESH-1000913	15-Jan-19	-9.05	-64.1	---	-0.4	---	Isotech
55-632793	RESH-1001005	15-Nov-19	---	---	-12.30	---	---	Beta Analytic
55-632793	RESH-1001005	15-Nov-19	-8.76	-62.2	---	-0.7	---	Isotech
RC18-4	RESH-1001024	26-Nov-19	---	---	-11.20	---	---	Beta Analytic
RC18-4	RESH-1001024	26-Nov-19	-9.40	-67.2	---	9.0	---	Isotech

TABLE A-5. STABLE ISOTOPE DATA
FOR SKUNK CAMP GROUNDWATER QUALITY SAMPLES 2018-2020A

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	ISOTOPES					ANALYTICAL LABORATORY
			$\delta^{18}\text{O}^{\text{a}}$ (‰)	$\delta\text{D}^{\text{b}}$ (‰)	$\delta^{13}\text{C}$ in DIC ^c (‰)	$\delta^{34}\text{S}^{\text{d}}$ (‰)	$\delta^{18}\text{O}$ in SO_4^{e} (‰)	
<div>a $\delta^{18}\text{O}$ (‰) = delta oxygen-18 (per mil)</div> <div>b δD (‰) = delta deuterium (per mil)</div> <div>c $\delta^{13}\text{C}$ in DIC (‰) = delta carbon-13 in dissolved inorganic carbon (per mil)</div> <div>d $\delta^{34}\text{S}$ (‰) = delta sulfur-34 (per mil)</div> <div>e $\delta^{18}\text{O}$ in SO_4 (‰) = delta oxygen-18 in sulfate (per mil)</div> <div>--- = Not available, not applicable</div> <div>-- = Not calculated due to non-detect</div>			<div>Explanation of Codes</div> <div>Absent = Analyte not present</div> <div>ge = Greater than or equal to reported value</div> <div>i = Insufficient sample</div> <div>j = Estimated value</div> <div>j+ = Estimated value, high bias</div> <div>j- = Estimated value, low bias</div> <div>Lost = Sample lost in processing</div> <div>n = Not measured</div> <div>na = Not available</div> <div>ND = Not Detected</div> <div>np = Analyte not applicable</div> <div>Present = Analyte was detected</div> <div>q = Uncertain value</div> <div>r = Unusable data</div> <div>< = Less than reported detection limit</div> <div>> = Greater than reported value</div> <div>d = Diluted. Diluted samples are indicated only when value is estimated.</div> <div>DUP = Field Duplicate</div> <div>LD = Laboratory duplicate</div> <div>SP = Split sample</div> <div>SPD = Split-Duplicate</div>					

TABLE A-6. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b														ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																	FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Surface Water 3 - Mineral Creek																						
Laguna Spring	RESH-1000999	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	14.8	7.64	1062	---	---		
Laguna Spring	RESH-1000999	14-Nov-19	120	65.5	38.3	1.38	---	---	---	---	36.0	---	---	---	---	---	---	---	---	---	SVL	
Laguna Spring	RESH-1000999	14-Nov-19	---	---	---	---	42.1	ND	497	148	---	0.19	0.297	1.14	718	---	---	---	7.9	1100	SVL	
Laguna Spring	RESH-1000999	14-Nov-19	112	59.7	36.7	1.54	---	---	---	---	39.6	---	---	---	---	---	---	---	---	---	SVL	
Sump Spring	RESH-1000966	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	23.2	7.49	839.4	---	---		
Sump Spring	RESH-1000966	14-Aug-19	82.5	46.1	28.8	3.13	---	---	---	---	29.5	---	---	---	---	---	---	---	---	---	SVL	
Sump Spring	RESH-1000966	14-Aug-19	---	---	---	---	28.5	ND	429	79.7	---	0.25	0.304	<0.049	515	---	---	---	7.8	887	SVL	
Sump Spring	RESH-1000966	14-Aug-19	91.2	51.4	28.0	3.73	---	---	---	---	34.6	---	---	---	---	---	---	---	---	---	SVL	
Sump Spring	RESH-1000998	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	14.8	7.31	853.3	---	---		
Sump Spring	RESH-1000998	14-Nov-19	94.5	52.7	30.2	2.72	---	---	---	---	28.4	---	---	---	---	---	---	---	---	---	SVL	
Sump Spring	RESH-1000998	14-Nov-19	---	---	---	---	28.2	ND	440	92.4	---	0.11	0.304	0.087	539	---	---	---	7.8	949	SVL	
Sump Spring	RESH-1000998	14-Nov-19	94.1	49.7	29.8	4.05	---	---	---	---	41.2	---	---	---	---	---	---	---	---	---	SVL	
Walnut Spring	RESH-1000912	15-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	503.0	17.1	7.17	687.6	---	---		
Walnut Spring	RESH-1000912	15-Jan-19	79.5	29.4	20.4	1.92	---	---	---	---	29.1	---	---	---	---	---	---	---	---	---	SVL	
Walnut Spring	RESH-1000912	15-Jan-19	---	---	---	---	14.8	ND	411	39.1	---	0.13	0.305	0.954	396	---	---	---	7.4	708	SVL	
Walnut Spring	RESH-1000912	15-Jan-19	83.0	29.3	21.4	2.01	---	---	---	---	31.2	---	---	---	---	---	---	---	---	---	SVL	
Walnut Spring	RESH-1001002	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	16.7	7.05	690.7	---	---		
Walnut Spring	RESH-1001002	14-Nov-19	91.2	31.7	23.6	1.99	---	---	---	---	30.5	---	---	---	---	---	---	---	---	---	SVL	
Walnut Spring	RESH-1001002	14-Nov-19	---	---	---	---	14.2	ND	404	37.9	---	<0.09	0.285	0.818	448	---	---	---	7.7	777	SVL	
Walnut Spring	RESH-1001002	14-Nov-19	86.3	28.3	23.1	2.11	---	---	---	---	31.0	---	---	---	---	---	---	---	---	---	SVL	
Surface Water 6- Skunk Camp																						
Big Springs	RESH-1001041	23-Jan-20	---	---	---	---	---	---	---	---	---	---	---	---	---	20.9	7.57	535	---	---		
Chimney Spring	RESH-1000873	05-Jun-18	---	---	---	---	---	---	---	---	---	---	---	---	---	20.6	8.08	962	---	---		
Chimney Spring	RESH-1000873	05-Jun-18	82.9	65.6	33.5	2.96	---	---	---	---	24.6	---	---	---	---	---	---	---	---	---	SVL	
Chimney Spring	RESH-1000873	05-Jun-18	---	---	---	---	37.4	23.4	368	146	---	0.22	0.280	<0.049	590	---	---	---	8.3	923	SVL	
Chimney Spring	RESH-1000873	05-Jun-18	86.3	57.9	34.3	3.19	---	---	---	---	26.5	---	---	---	---	---	---	---	---	---	SVL	
Chimney Spring	RESH-1000956	13-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	23.6	8.13	895	---	---		
Chimney Spring	RESH-1000956	13-Jun-19	76.1	56.5	27.8	2.81	---	---	---	---	30.4	---	---	---	---	---	---	---	---	---	SVL	
Chimney Spring	RESH-1000956	13-Jun-19	---	---	---	---	33.6	ND	395	129	---	0.23	0.234	<0.049	564	---	---	---	8.2	936	SVL	
Chimney Spring	RESH-1000956	13-Jun-19	79.6	60.2	29.0	3.05	---	---	---	---	32.9	---	---	---	---	---	---	---	---	---	SVL	
Chimney Spring	RESH-1000995	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	-12.1	7.83	1057	---	---		
Chimney Spring	RESH-1000995	13-Nov-19	102	74.1	36.5	4.04	---	---	---	---	33.6	---	---	---	---	---	---	---	---	---	SVL	
Chimney Spring	RESH-1000995	13-Nov-19	---	---	---	---	39.5	ND	486	158	---	0.10	0.239	<0.049	683	---	---	---	8.0	1160	SVL	
Chimney Spring	RESH-1000995	13-Nov-19	94.8	69.7	35.8	4.28	---	---	---	---	35.9	---	---	---	---	---	---	---	---	---	SVL	
Dripping Spring	RESH-1001044	31-Jan-20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	7.61	659	---	---		

TABLE A-6. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b													ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)	
Surface Water 6- Skunk Camp																					
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	---	---	---	---	---	---	---	---	---	---	---	---	---	14.7	8.45	1203	---	---	
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	64.8	19.4	152	8.14	---	---	---	---	25.1	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	---	---	---	---	190	2.7	304	99.5	---	0.25	1.03	0.305	702	---	---	---	8.4	1160	SVL
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	68.5	21.3	152	8.03	---	---	---	---	37.9	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	---	---	---	---	---	---	---	---	---	---	---	15.7	8.37	646.7	---	---	
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	45.7	12.0	82.6	5.09	---	---	---	---	27.6	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	---	---	96.8	ND	196	43.5	---	<0.09	0.735	0.250	422	---	---	---	8.2	716	SVL
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	48.1	13.1	75.5	5.57	---	---	---	---	45.7	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	28.1	8.18	878.8	---	---	
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	46.7	14.6	111	5.25	---	---	---	---	26.3	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	---	---	149	ND	190	56.8	---	0.13	0.947	0.464	559	---	---	---	7.6	888	SVL
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	49.4	14.5	110	5.72	---	---	---	---	33.7	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	635.5	29.2	8.35	883.0	---	---	
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	43.0	15.0	120	6.08	---	---	---	---	23.0	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	---	---	151	4.6	190	58.4	---	0.12	0.991	0.322	528	---	---	---	8.4	1040	SVL
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	45.0	15.5	117	6.43	---	---	---	---	32.1	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	---	---	---	---	---	---	---	---	---	---	---	28.0	8.31	912.3	---	---	
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	41.2	14.5	115	6.61	---	---	---	---	21.3	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	---	---	161	4.3	193	61.9	---	0.09 j	0.978	0.391	540	---	---	---	8.3	975	SVL
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	45.7	16.0	124	6.96	---	---	---	---	34.0	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	19.3	8.53	972	---	---	
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	65.3	23.6	126	5.17	---	---	---	---	23.0	---	---	---	---	---	---	---	---	---	SVL
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	---	---	---	---	135	ND	299	73.3	---	0.10	0.853	0.134	600	---	---	---	8.3	1100	SVL
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	61.6	22.2	111	5.54	---	---	---	---	24.2	---	---	---	---	---	---	---	---	---	SVL
Haley Spring	RESH-1000991	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	18.5	7.74	1043	---	---	
Haley Spring	RESH-1000991	11-Nov-19	109	79.4	22.3	2.56	---	---	---	---	29.8	---	---	---	---	---	---	---	---	---	SVL
Haley Spring	RESH-1000991	11-Nov-19	---	---	---	---	30.4	ND	632	68.2	---	0.28	0.310	0.418	667	---	---	---	8.0	1150	SVL
Haley Spring	RESH-1000991	11-Nov-19	106	77.3	21.7	2.58	---	---	---	---	30.9	---	---	---	---	---	---	---	---	---	SVL
Indian Spring	RESH-1000955	13-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	19.1	7.11	864	---	---	
Indian Spring	RESH-1000955	13-Jun-19	104	39.6	24.2	1.60	---	---	---	---	36.8	---	---	---	---	---	---	---	---	---	SVL
Indian Spring	RESH-1000955	13-Jun-19	---	---	---	---	16.9	ND	461	91.8	---	0.15	0.344	<0.049	530	---	---	---	7.9	922	SVL
Indian Spring	RESH-1000955	13-Jun-19	105	41.6	24.6	1.66	---	---	---	---	38.1	---	---	---	---	---	---	---	---	---	SVL
Indian Spring	RESH-1000996	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	-10.3	7.28	733.4	---	---	
Indian Spring	RESH-1000996	13-Nov-19	92.6	36.7	23.5	1.24	---	---	---	---	34.3	---	---	---	---	---	---	---	---	---	SVL
Indian Spring	RESH-1000996	13-Nov-19	---	---	---	---	13.9	ND	389	71.8	---	<0.09	0.333	0.100	464	---	---	---	7.8	809	SVL
Indian Spring	RESH-1000996	13-Nov-19	88.1	34.2	23.0	1.31	---	---	---	---	37.0	---	---	---	---	---	---	---	---	---	SVL
Hot Rod Spring	RESH-1001042	28-Jan-20	---	---	---	---	---	---	---	---	---	---	---	---	---	16.3	7.16	735	---	---	

TABLE A-6. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b														ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																	FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)		
Surface Water 6- Skunk Camp																						
Looney Spring	RESH-1000864	24-May-18	---	---	---	---	---	---	---	---	---	---	---	---	---	20.6	7.15	831	---	---		
Looney Spring	RESH-1000864	24-May-18	76.7	45.1	22.2	3.47	---	---	---	---	43.1	---	---	---	---	---	---	---	---	---	SVL	
Looney Spring	RESH-1000864	24-May-18	---	---	---	---	18.4	ND	400	75.3	---	0.14	0.285	<0.049	472	---	---	---	7.9	762	SVL	
Looney Spring	RESH-1000864	24-May-18	72.3	43.6	21.9	3.76	---	---	---	---	43.8	---	---	---	---	---	---	---	---	---	SVL	
Looney Spring	RESH-1000990	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	14.3	7.26	823	---	---		
Looney Spring	RESH-1000990	11-Nov-19	106	45.3	21.7	3.34	---	---	---	---	40.0	---	---	---	---	---	---	---	---	---	SVL	
Looney Spring	RESH-1000990	11-Nov-19	---	---	---	---	17.2	ND	465	65.3	---	<0.92	0.283	<0.049	529	---	---	---	7.7	904	SVL	
Looney Spring	RESH-1000990	11-Nov-19	99.6	42.7	20.5	3.53	---	---	---	---	41.4	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	---	---	---	---	---	---	---	---	---	---	---	19.5	7.42	1384	---	---		
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	132	94.8	48.7	5.44	---	---	---	---	56.0	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	---	---	38.3	78	689	85.7	---	0.16	0.352	<0.049	842	---	---	---	8.3	1330	SVL	
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	137	84.1	50.1	5.75	---	---	---	---	59.6	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	20.2	7.23	1246	---	---		
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	132	84.7	48.5	3.72	---	---	---	---	45.6	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	---	---	29.1	ND	730	109	---	0.14	0.295	<0.049	821	---	---	---	7.9	1370	SVL	
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	127	82.8	45.1	3.83	---	---	---	---	46.8	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Spring	RESH-1000921	13-Feb-19	---	---	---	---	---	---	---	---	---	---	---	---	451.4	15.6	7.13	625.2	---	---		
Stone Cabin Spring	RESH-1000921	13-Feb-19	76.9	28.1	20.7	2.42	---	---	---	---	35.9	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Spring	RESH-1000921	13-Feb-19	---	---	---	---	11.4	ND	372	28.1	---	0.17	0.405	<0.049	384	---	---	---	7.7	651	SVL	
Stone Cabin Spring	RESH-1000921	13-Feb-19	73.9	26.5	19.9	2.27	---	---	---	---	35.2	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	14.8	7.31	573	---	---		
Stone Cabin Spring	RESH-1000992	12-Nov-19	72.6	25.6	19.5	3.26	---	---	---	---	34.7	---	---	---	---	---	---	---	---	---	SVL	
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	---	---	11.6	ND	340	22.1	---	<0.09	0.392	<0.049	383	---	---	---	7.8	632	SVL	
Stone Cabin Spring	RESH-1000992	12-Nov-19	70.6	24.8	18.8	3.31	---	---	---	---	36.5	---	---	---	---	---	---	---	---	---	SVL	
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	16.3	6.67	937.5	---	---		
Woodchopper Spring	RESH-1000914	21-Jan-19	103	52.7	27.5	3.01	---	---	---	---	36.6	---	---	---	---	---	---	---	---	---	SVL	
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	---	---	17.6	ND	468	134	---	<0.09	0.472	<0.049	609	---	---	---	7.6	951	SVL	
Woodchopper Spring	RESH-1000914	21-Jan-19	104	50.6	27.6	2.92	---	---	---	---	39.7	---	---	---	---	---	---	---	---	---	SVL	
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	-12.1	7.86	941.1	---	---		
Woodchopper Spring	RESH-1000997	13-Nov-19	106	57.2	31.4	2.89	---	---	---	---	38.6	---	---	---	---	---	---	---	---	---	SVL	
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	---	---	19.9	ND	439	146	---	<0.09	0.503	<0.049	616	---	---	---	8.1	1020	SVL	
Woodchopper Spring	RESH-1000997	13-Nov-19	98.0	51.9	30.7	3.06	---	---	---	---	40.4	---	---	---	---	---	---	---	---	---	SVL	

TABLE A-6. COMMON CONSTITUENTS AND ROUTINE PARAMETERS
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	COMMON CONSTITUENTS ^a (mg/L) ^b													ROUTINE PARAMETERS					ANALYTICAL LABORATORY
																FIELD			LABORATORY		
			Ca	Mg	Na	K	Cl	CO ₃ ^c	HCO ₃ ^c	SO ₄	SiO ₂	Br	F	NO ₃ + NO ₂ (as N)	TDS	TEMP (°C) ^d	pH	SC (μS/cm) ^e	pH	SC (μS/cm)	
Arizona Numeric Aquifer Water Quality Standards			---	---	---	---	---	---	---	---	---	---	4.0	10	---	---	---	---	---	---	

Values in red are above Arizona numeric water quality standards
Values in blue indicate that detection limit exceeds Arizona numeric water quality standard

--- = Not available, not applicable
-- = Not calculated due to non-detect
* = Value reported as Na+K

Shading indicates dissolved results
 Shading indicates total results
 Shading indicates total recoverable results
 Shading indicates unknown filtration or no filtration method provided for analyses

- ^a Ca = Calcium
Mg = Magnesium
Na = Sodium
K = Potassium
Cl = Chloride
CO₃ = Carbonate ion
HCO₃ = Bicarbonate ion
SO₄ = Sulfate
SiO₂ = Silica
Br = Bromide
F = Fluoride
NO₃+NO₂ (as N) = Nitrate plus Nitrite, in equivalent milligrams of nitrogen per liter
TDS = Total dissolved solids

^b mg/L = milligrams per liter

^c Carbonate and Bicarbonate ions not reported directly by the laboratory are calculated from values reported as calcium carbonate

^d TEMP (°C) = Temperature, in degrees Celsius

^e SC (μS/cm) = Specific Conductance in microsiemens per centimeter

Explanation of Codes
Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable
Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicate
SP = Split sample
SPD = Split-Duplicate

TABLE A-7. TRACE CONSTITUENTS
FOR SKUNK CAMP SUFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																				ANALYTICAL LABORATORY		
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S		Tl	Zn
Surface Water 3 - Mineral Creek																									
Laguna Spring	RESH-1000999	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Laguna Spring	RESH-1000999	14-Nov-19	<0.05	<0.00023	0.00142 j	0.124	<0.0008	0.063	<0.000063	<0.0020	<0.0016	0.00085 j	---	<0.056	0.00023 j	0.0078 j	---	<0.003	<0.0023	0.0013 j	<0.000061	---	<0.00008	<0.005	SVL
Laguna Spring	RESH-1000999	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Laguna Spring	RESH-1000999	14-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.44	---	---	SVL
Laguna Spring	RESH-1000999	14-Nov-19	0.55	<0.00023	0.00182 j	0.126	<0.0004	0.061	<0.000063	<0.0010	<0.0008	0.00233	---	0.610	0.00098 j	0.0126	---	<0.002	<0.0012	0.0018 j	<0.000061	---	<0.00008	r	SVL
Sump Spring	RESH-1000966	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	2.35E-06 j	---	---	---	---	---	---	---	---	Anatek
Sump Spring	RESH-1000966	14-Aug-19	<0.05	<0.00023	0.00129 j	0.210	<0.0008	0.052	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	0.0486	---	<0.003	<0.0023	<0.0002	<0.000061	---	<0.00008	<0.005	SVL
Sump Spring	RESH-1000966	14-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	---	6.05E-06 j	---	---	---	---	---	---	---	Anatek
Sump Spring	RESH-1000966	14-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.73 j	---	---	SVL
Sump Spring	RESH-1000966	14-Aug-19	0.04 j	<0.00023	0.00140 j	0.258	0.0005 j	0.063	<0.000063	<0.0010	r	0.00141	---	0.110	<0.00014	0.0645	---	<0.002	0.0043 j	0.0003 j	0.00130	---	<0.00008	0.006 j	SVL
Sump Spring	RESH-1000998	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Sump Spring	RESH-1000998	14-Nov-19	<0.05	<0.00023	0.00095 j	0.167	<0.0008	0.054	<0.000063	<0.0020	<0.0016	<0.00036	---	0.109	<0.00014	0.0917	---	<0.003	<0.0023	0.0002 j	<0.000061	---	<0.00008	<0.005	SVL
Sump Spring	RESH-1000998	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Sump Spring	RESH-1000998	14-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.12	---	---	SVL
Sump Spring	RESH-1000998	14-Nov-19	2.09	<0.00023	0.00158 j	0.209	<0.0004	0.054	<0.000063	0.0016 j	0.0020 j	0.00964	---	3.39	0.00402	0.120	---	<0.002	<0.0012	0.0003 j	<0.000061	---	<0.00008	0.016	SVL
Walnut Spring	RESH-1000912	15-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000128	---	---	---	---	---	---	---	---	Anatek
Walnut Spring	RESH-1000912	15-Jan-19	<0.05	<0.00023	0.00115 jd	0.129	<0.0017	0.031 j	0.00024	<0.0020	<0.0016	<0.00036	---	<0.056	0.00066 jd	<0.0034	---	<0.003	<0.0023	0.0006 jd	<0.000061	---	<0.00008	0.013	SVL
Walnut Spring	RESH-1000912	15-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000175	---	---	---	---	---	---	---	---	Anatek
Walnut Spring	RESH-1000912	15-Jan-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	<0.26	---	---	SVL
Walnut Spring	RESH-1000912	15-Jan-19	<0.02	0.000051 jd	0.00120 jd	0.139	<0.0005	0.031 j	0.00025	<0.0010	<0.0007	<0.00036	---	<0.023	0.00130 jd	<0.0025	---	<0.001	<0.0014	0.0006 jd	<0.000036	---	<0.00003	0.014	SVL
Walnut Spring	RESH-1001002	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Walnut Spring	RESH-1001002	14-Nov-19	<0.05	<0.00023	0.00104 j	0.139	<0.0008	0.034 j	0.00026	<0.0020	<0.0016	<0.00036	---	<0.056	0.00120 j	<0.0034	---	<0.003	<0.0023	0.0005 j	<0.000061	---	<0.00008	0.015	SVL
Walnut Spring	RESH-1001002	14-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Walnut Spring	RESH-1001002	14-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.92	---	---	SVL
Walnut Spring	RESH-1001002	14-Nov-19	<0.03	<0.00023	0.00113 j	0.140	<0.0004	0.034 j	0.00024	<0.0010	<0.0008	<0.00036	---	<0.028	0.00150 j	<0.0017	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	0.016	SVL
Surface Water 6- Skunk Camp																									
Chimney Spring	RESH-1000873	05-Jun-18	---	---	---	---	---	---	---	---	---	---	---	---	---	0.000011	---	---	---	---	---	---	---	---	Anatek
Chimney Spring	RESH-1000873	05-Jun-18	<0.05	0.00057 jd	0.00099 jd	0.0490	<0.0017	0.055	<0.000063	<0.0020	<0.0016	0.00099 jd	---	<0.056	<0.00014	0.0077 j	---	<0.003	0.0088 j	0.0005 jd	<0.000061	---	<0.00008	<0.005	SVL
Chimney Spring	RESH-1000873	05-Jun-18	---	---	---	---	---	---	---	---	---	---	---	---	---	8.75E-06 j,d	---	---	---	---	---	---	---	---	Anatek
Chimney Spring	RESH-1000873	05-Jun-18	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	0.5	---	---	SVL
Chimney Spring	RESH-1000873	05-Jun-18	0.09	0.00060 jd	0.00099 jd	0.0535	<0.0005	0.058	0.000039 jd	<0.0010	<0.0007	0.00185	---	0.163	0.00037 jd	0.0508	---	0.001 j	0.0102	<0.0004	<0.000036	---	<0.00003	0.003 j	SVL
Chimney Spring	RESH-1000956	13-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Chimney Spring	RESH-1000956	13-Jun-19	<0.05	0.00030 j	0.00082 j	0.0450	<0.0008	0.049	0.000077 j	<0.0020	<0.0016	0.00281	---	<0.056	<0.00014	0.0203	---	<0.003	<0.0023	0.0003 j	<0.000061	---	<0.00008	0.016	SVL
Chimney Spring	RESH-1000956	13-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Chimney Spring	RESH-1000956	13-Jun-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	r	---	---	SVL
Chimney Spring	RESH-1000956	13-Jun-19	0.03 j	0.00032 j	0.00084 j	0.0499	<0.0004	0.051	0.000095 j	<0.0010	<0.0008	0.00302	---	0.060 j	0.00026 j	0.130	---	<0.002	<0.0012	0.0003 j	<0.000061	---	<0.00008	0.022	SVL
Chimney Spring	RESH-1000995	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Chimney Spring	RESH-1000995	13-Nov-19	<0.05	0.00037 j	0.00096 j	0.0571	<0.0008	0.039 j	<0.000063	<0.0020	<0.0016	0.00065 j	---	<0.056	<0.00014	0.195	---	<0.003	<0.0023	0.0002 j	<0.000061	---	<0.00008	<0.005	SVL
Chimney Spring	RESH-1000995	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	2.34E-06 j	---	---	---	---	---	---	---	---	Anatek
Chimney Spring	RESH-1000995	13-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	---	1.20	---	---	SVL
Chimney Spring	RESH-1000995	13-Nov-19	<0.03	0.00039 j	0.00107 j	0.0581	<0.0004	0.042	<0.000063	<0.0010	<0.0008	0.00055 j	---	0.067 j	0.00016 j	0.179	---	<0.002	<0.0012	<0.0002	<0.000061	---	<0.00008	r	SVL

TABLE A-7. TRACE CONSTITUENTS
FOR SKUNK CAMP SUFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																						ANALYTICAL LABORATORY	
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S	Tl	Zn		
Surface Water 6- Skunk Camp																										
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	---	---	---	---	---	---	---	---	---	---	---	---	---	8.35E-06 j,d	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	0.08	<0.00023	0.00861	0.0749	<0.0017	0.196	<0.000063	<0.0020	<0.0016	0.00207	---	0.071 j	<0.00014	0.0293	---	0.007 j	<0.0023	0.0003 jd	<0.000061	---	<0.00008	<0.005	SVL	
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	---	---	---	---	---	---	---	---	---	---	---	---	---	0.000014	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	0.53 j	---	---	---	SVL	
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	2.33	0.00030 jd	0.00884	0.0872	<0.0005	0.197	<0.000038	0.0012 j	<0.0007	0.00570	---	1.55	0.00133 jd	0.145	---	0.004 j	0.0043 j	<0.0004	<0.000036	---	<0.00003	0.005 j	SVL	
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	---	---	---	---	---	---	---	---	---	---	---	6.82E-06 j,d	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	0.06 j	<0.00023	0.00469	0.0514	<0.0017	0.083	<0.000063	<0.0020	<0.0016	0.00186	---	<0.056	<0.00014	0.0266	---	0.003 j	<0.0023	<0.0002	<0.000061	---	<0.00008	<0.005	SVL	
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000222	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	0.32 j	---	---	---	SVL	
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	4.03	<0.00023	0.00512	0.0715	<0.0009	0.081	<0.000063	0.0023 j	0.0014 j	0.00930	---	2.84	0.00183 jd	0.199	---	0.003 j	0.0049 j	0.0005 jd	<0.000061	---	<0.00008	0.009 j	SVL	
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	0.12	0.00028 j	0.00526	0.0589	<0.0008	0.105	<0.000063	<0.0020	<0.0016	0.00156	---	0.092 j	0.00021 j	0.0526	---	<0.003	0.0079 j	0.0002 j	0.000085 j	---	0.000146 j	<0.005	SVL	
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	---	---	---	---	---	---	---	---	<0.002	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.26	---	---	---	SVL	
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	1.55	<0.00023	0.00543	0.0729	<0.0004	0.119	<0.000063	<0.0010	<0.0008	0.00397	---	1.14	0.00086 j	0.282	---	<0.002	0.0109	0.0004 j	<0.000061	---	<0.00008	0.008 j	SVL	
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	0.22	0.00025 j	0.00533	0.0651	<0.0008	0.128	<0.000063	<0.0020	<0.0016	0.00170	---	0.188	0.00026 j	0.0796	---	0.004 j	0.0048 j	0.0002 j	<0.000061	---	<0.00008	<0.005	SVL	
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	r	---	---	---	SVL	
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	2.07	0.00038 j	0.00607	0.0789	<0.0004	0.129	<0.000063	0.0010 j	0.0026 j	0.00482	---	1.38	0.00117 j	0.317	---	0.002 j	0.0075 j	0.0005 j	<0.000061	---	<0.00008	r	SVL	
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	0.11	0.00031 j	0.00553	0.0652	<0.0008	0.136	<0.000063	<0.0020	<0.0016	0.00191	---	0.106	0.00020 j	0.0563	---	0.005 j	<0.0023	0.0003 j	<0.000061	---	<0.00008	<0.005	SVL	
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	0.65 j	---	---	---	SVL	
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	2.64	0.00032 j	0.00588	0.0853	<0.0004	0.138	<0.000063	0.0017 j	0.0013 j	0.00550	---	1.75	0.00114 j	0.332	---	0.002 j	0.0035 j	0.0004 j	<0.000061	---	<0.00008	0.009 j	SVL	
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	2.21E-06 j	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	<0.05	<0.00023	0.00380	0.0554	<0.0008	0.143	<0.000063	<0.0020	<0.0016	0.00117	---	<0.056	<0.00014	0.147	---	0.006 j	<0.0023	0.0002 j	<0.000061	---	<0.00008	<0.005	SVL	
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000031 j	---	---	---	---	---	---	---	---	Anatek	
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	<0.26	---	---	---	SVL	
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	0.08	<0.00023	0.00363	0.0589	<0.0004	0.142	<0.000063	<0.0010	<0.0008	0.00090 j	---	0.075 j	<0.00014	0.150	---	<0.002	<0.0012	0.0002 j	<0.000061	---	<0.00008	<0.003	SVL	
Haley Spring	RESH-1000991	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	3.08E-06 j	---	---	---	---	---	---	---	---	Anatek	
Haley Spring	RESH-1000991	11-Nov-19	<0.05	0.00051 j	0.00142 j	0.0566	<0.0008	0.031 j	0.000068 j	<0.0020	<0.0016	0.00367	---	<0.056	<0.00014	0.0058 j	---	<0.003	<0.0023	0.0016 j	<0.000061	---	<0.00008	<0.005	SVL	
Haley Spring	RESH-1000991	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	3.78E-06 j	---	---	---	---	---	---	---	---	Anatek	
Haley Spring	RESH-1000991	11-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	1.09	---	---	---	SVL	
Haley Spring	RESH-1000991	11-Nov-19	<0.03	0.00061 j	0.00124 j	0.0596	<0.0004	0.034 j	0.000066 j	<0.0010	<0.0008	0.00374	---	<0.028	<0.00014	0.0025 j	---	<0.002	<0.0012	0.0013 j	<0.000061	---	<0.00008	r	SVL	
Indian Spring	RESH-1000955	13-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	4.69E-06 j	---	---	---	---	---	---	---	---	Anatek	
Indian Spring	RESH-1000955	13-Jun-19	<0.05	0.00060 j	0.00130 j	0.0740	<0.0008	0.035 j	0.000085 j	<0.0020	<0.0016	0.00147	---	0.214	<0.00014	0.278	---	<0.003	<0.0023	<0.0002	<0.000061	---	<0.00008	<0.005	SVL	
Indian Spring	RESH-1000955	13-Jun-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Indian Spring	RESH-1000955	13-Jun-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	r	---	---	---	SVL	
Indian Spring	RESH-1000955	13-Jun-19	<0.03	0.00058 j	0.00126 j	0.0779	<0.0004	0.037 j	0.00016 j	<0.0010	0.0012 j	0.00262	---	0.264	<0.00014	0.275	---	<0.002	<0.0012	<0.0002	<0.000061	---	<0.00008	<0.003	SVL	

TABLE A-7. TRACE CONSTITUENTS
FOR SKUNK CAMP SUFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																						ANALYTICAL LABORATORY	
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S	Tl	Zn		
Surface Water 6- Skunk Camp																										
Indian Spring	RESH-1000996	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek	
Indian Spring	RESH-1000996	13-Nov-19	<0.05	<0.00023	0.00054 j	0.0756	<0.0008	0.027 j	0.000097 j	<0.0020	<0.0016	0.00038 j	---	0.257	<0.00014	0.0425	---	<0.003	<0.0023	0.0002 j	<0.000061	---	<0.00008	<0.005	SVL	
Indian Spring	RESH-1000996	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000022 j	---	---	---	---	---	---	---	Anatek		
Indian Spring	RESH-1000996	13-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	1.04	---	---	SVL		
Indian Spring	RESH-1000996	13-Nov-19	0.10	<0.00023	0.00061 j	0.0777	<0.0004	0.031 j	0.00011 j	0.0011 j	<0.0008	0.00064 j	---	0.537	0.00037 j	0.0389	---	<0.002	<0.0012	0.0002 j	<0.000061	---	<0.00008	r	SVL	
Looney Spring	RESH-1000864	24-May-18	---	---	---	---	---	---	---	---	---	---	---	---	---	5.33E-06 j,d	---	---	---	---	---	---	---	Anatek		
Looney Spring	RESH-1000864	24-May-18	<0.05	0.00024 jd	0.00292 jd	0.0201	<0.0017	0.051	<0.000063	<0.0020	<0.0016	<0.00036	---	0.068 j	<0.00014	0.0609	---	<0.003	<0.0023	0.0004 jd	<0.000061	---	<0.00008	<0.005	SVL	
Looney Spring	RESH-1000864	24-May-18	---	---	---	---	---	---	---	---	---	---	---	---	---	0.000013	---	---	---	---	---	---	---	Anatek		
Looney Spring	RESH-1000864	24-May-18	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	1.69	---	---	SVL		
Looney Spring	RESH-1000864	24-May-18	0.04 j	0.00060 jd	0.00294 jd	0.0239	<0.0005	0.050	<0.000038	<0.0010	<0.0007	0.00388	---	0.149	0.00041 jd	0.0571	---	<0.001	<0.0014	0.0008 jd	<0.000036	---	<0.00003	0.002 j	SVL	
Looney Spring	RESH-1000990	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000034 j	---	---	---	---	---	---	---	Anatek		
Looney Spring	RESH-1000990	11-Nov-19	<0.05	<0.00023	0.00184 j	0.0272	<0.0008	0.047	<0.000063	<0.0020	<0.0016	<0.00036	---	0.089 j	<0.00014	0.0935	---	<0.003	<0.0023	0.0043	<0.000061	---	<0.00008	<0.005	SVL	
Looney Spring	RESH-1000990	11-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	3.28E-06 j	---	---	---	---	---	---	---	Anatek		
Looney Spring	RESH-1000990	11-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	<0.26	---	---	SVL		
Looney Spring	RESH-1000990	11-Nov-19	<0.03	<0.00023	0.00182 j	0.0283	<0.0004	0.048	<0.000063	<0.0010	<0.0008	<0.00036	---	0.153	<0.00014	0.0900	---	<0.002	<0.0012	0.0004 j	<0.000061	---	<0.00008	r	SVL	
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	---	---	---	---	---	---	---	---	---	---	---	2.34E-06 j,d	---	---	---	---	---	---	---	Anatek		
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	<0.05	0.00024 jd	0.00411	0.102	<0.0017	0.037 j	<0.000063	<0.0020	<0.0016	<0.00036	---	0.150	<0.00014	0.127	---	<0.003	0.0210	0.0005 jd	<0.000061	---	<0.00008	<0.005	SVL	
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	---	---	---	---	---	---	---	---	---	---	---	0.0000135	---	---	---	---	---	---	---	Anatek		
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	0.5	---	---	SVL		
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	0.33	r	0.00432	0.105	<0.0005	0.038 j	<0.000038	<0.0010	<0.0007	0.00188	---	0.829	0.00031 jd	0.138	---	<0.001	0.0228	0.0005 jd	<0.000036	---	<0.00003	0.003 j	SVL	
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek		
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	<0.05	<0.00023	0.00112 j	0.0757	<0.0008	0.046	<0.000063	<0.0020	<0.0016	0.00046 j	---	0.271	<0.00014	0.0835	---	<0.003	<0.0023	0.0002 j	<0.000061	---	<0.00008	<0.005	SVL	
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	Anatek		
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	0.93 j	---	---	SVL		
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	<0.03	<0.00023	0.00099 j	0.0809	<0.0004	0.049	0.000076 j	<0.0010	0.0008 j	<0.00036	---	0.481	<0.00014	0.0737	---	<0.002	0.0015 j	<0.0002	<0.000061	---	<0.00008	<0.003	SVL	
Stone Cabin Spring	RESH-1000921	13-Feb-19	<0.05	<0.00023	0.00083 jd	0.0895	<0.0017	0.025 j	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	<0.0034	---	<0.003	<0.0023	0.0006 jd	<0.000061	---	<0.00008	<0.005	SVL	
Stone Cabin Spring	RESH-1000921	13-Feb-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	<0.000093	---	---	---	---	0.32 j	---	---	SVL	
Stone Cabin Spring	RESH-1000921	13-Feb-19	0.02 j	0.00019 jd	0.00089 jd	0.0924	<0.0005	0.041	<0.000038	<0.0010	<0.0007	0.00041 jd	---	0.141	0.000069 jd	0.0027 j	---	<0.001	<0.0014	0.0006 jd	<0.000036	---	<0.00003	<0.002	SVL	
Stone Cabin Spring SP	RESH-1000921	13-Feb-19	---	---	---	---	---	---	---	---	---	---	---	---	---	r	---	---	---	---	---	---	---	Anatek		
Stone Cabin Spring SP	RESH-1000921	13-Feb-19	---	---	---	---	---	---	---	---	---	---	---	---	---	r	---	---	---	---	---	---	---	Anatek		
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	3.48E-06 j	---	---	---	---	---	---	---	Anatek		
Stone Cabin Spring	RESH-1000992	12-Nov-19	<0.05	<0.00023	0.00221 j	0.0773	<0.0008	0.040	<0.000063	<0.0020	<0.0016	0.00036 j	---	<0.056	<0.00014	0.0591	---	<0.003	<0.0023	0.0006 j	<0.000061	---	<0.00008	<0.005	SVL	
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	4.01E-06 j	---	---	---	---	---	---	---	Anatek		
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	1.13	---	---	SVL		
Stone Cabin Spring	RESH-1000992	12-Nov-19	0.07 j	<0.00023	0.00213 j	0.0817	<0.0004	0.043	0.000068 j	<0.0010	<0.0008	0.00108	---	0.114	<0.00014	0.0564	---	<0.002	<0.0012	0.0005 j	<0.000061	---	<0.00008	r	SVL	
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	7.08E-06 j,d	---	---	---	---	---	---	---	Anatek		
Woodchopper Spring	RESH-1000914	21-Jan-19	<0.05	0.00028 jd	0.00086 jd	0.0312	<0.0017	0.099	<0.000063	<0.0020	<0.0016	<0.00036	---	0.440	<0.00014	0.147	---	<0.003	<0.0023	r	<0.000061	---	<0.00008	0.018	SVL	
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	---	---	---	---	---	---	---	---	---	---	---	9.86E-06 j,d	---	---	---	---	---	---	---	Anatek		
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	<0.26	---	---	SVL		
Woodchopper Spring	RESH-1000914	21-Jan-19	<0.02	0.00029 jd	0.00088 jd	0.0332	<0.0005	0.097	<0.000038	<0.0010	<0.0007	<0.00036	---	0.454	0.000076 jd	0.151	---	0.003 j	<0.0014	<0.0004	<0.000036	---	0.000058 jd	0.014	SVL	

TABLE A-7. TRACE CONSTITUENTS
FOR SKUNK CAMP SUFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	TRACE CONSTITUENTS ^a (mg/L) ^b																				ANALYTICAL LABORATORY		
			Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	CN	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	S		Tl	Zn
Surface Water 6- Skunk Camp																									
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	3.36E-06 j	---	---	---	---	---	---	---	---	Anatek
Woodchopper Spring	RESH-1000997	13-Nov-19	<0.05	<0.00023	0.00050 j	0.0288	<0.0008	0.103	<0.000063	<0.0020	<0.0016	<0.00036	---	<0.056	<0.00014	0.0147	---	<0.003	<0.0023	<0.0002	<0.000061	---	<0.00008	<0.005	SVL
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	---	---	---	---	---	---	---	---	---	---	---	<0.000002	---	---	---	---	---	---	---	---	Anatek
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	---	---	---	---	---	---	---	---	<0.0038	---	---	---	---	---	---	---	1.68	---	---	---	SVL
Woodchopper Spring	RESH-1000997	13-Nov-19	<0.03	<0.00023	0.00057 j	0.0287	<0.0004	0.099	<0.000063	<0.0010	<0.0008	<0.00036	---	0.044 j	<0.00014	0.0177	---	<0.002	<0.0012	<0.0002	<0.000061	---	<0.00008	r	SVL
Arizona Numeric Aquifer Water Quality Standards			---	0.006	0.05	2.0	0.004	---	0.005	0.1	---	---	0.20	---	0.05	---	0.002	---	0.1	0.05	---	---	0.002	---	

Values in red are above Arizona numeric water quality standards

Values in blue indicate that detection limit exceeds Arizona numeric water quality standard

--- = Not available, not applicable

-- = Not calculated due to non-detect

- Shading indicates dissolved results
- Shading indicates total results
- Shading indicates total recoverable results
- Shading indicates unknown filtration or no filtration method provided for analyses

^a

Al = Aluminum
Sb = Antimony
As = Arsenic
Ba = Barium
Be = Beryllium
B = Boron
Cd = Cadmium
Cr = Chromium (total)
Co = Cobalt
Cu = Copper
CN = Cyanide (amenable)

^b

mg/L = milligrams per liter

Fe = Iron
Pb = Lead
Mn = Manganese
Hg = Mercury
Mo = Molybdenum
Ni = Nickel
Se = Selenium
Ag = Silver
S = Sulfide
Tl = Thallium
Zn = Zinc

Explanation of Codes

Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicate
SP = Split sample
SPD = Split-Duplicate

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MONTGOMERY
& ASSOCIATES

TABLE A-8. RADIOISOTOPE DATA
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Surface Water 3 - Mineral Creek											
Laguna Spring	RESH-1000999	14-Nov-19	---	---	---	---	4.2 ± 2.2	<2.3	3.91 ± 2.4	1.1	ACZ
Laguna Spring	RESH-1000999	14-Nov-19	---	104.75 ± 0.38	---	---	---	---	---	---	Beta Analytic
Laguna Spring	RESH-1000999	14-Nov-19	1.40 ± 0.25	---	---	---	---	---	---	---	Isotech
Sump Spring	RESH-1000966	14-Aug-19	---	---	---	---	2.1 ± 1.2	<1.8	<0.96	---	ACZ
Sump Spring	RESH-1000966	14-Aug-19	---	92.34 ± 0.34	---	---	---	---	---	---	Beta Analytic
Sump Spring	RESH-1000966	14-Aug-19	0.69 ± 0.22	---	---	---	---	---	---	---	Isotech
Sump Spring	RESH-1000998	14-Nov-19	---	---	---	---	6.9 ± 3.1	<2.5	<4.6	---	ACZ
Sump Spring	RESH-1000998	14-Nov-19	---	90.96 ± 0.33	---	---	---	---	---	---	Beta Analytic
Sump Spring	RESH-1000998	14-Nov-19	1.18 ± 0.24	---	---	---	---	---	---	---	Isotech
Walnut Spring	RESH-1000912	15-Jan-19	---	---	---	---	3.5 ± 1.4	<1.8	<0.93	---	ACZ
Walnut Spring	RESH-1000912	15-Jan-19	---	80.97 ± 0.29	---	---	---	---	---	---	Beta Analytic
Walnut Spring	RESH-1000912	15-Jan-19	0.94 ± 0.22	---	---	---	---	---	---	---	Isotech
Walnut Spring	RESH-1001002	14-Nov-19	---	---	---	---	4.5 ± 1.5	<1.8	<0.91	---	ACZ
Walnut Spring	RESH-1001002	14-Nov-19	---	81.68 ± 0.3	---	---	---	---	---	---	Beta Analytic
Walnut Spring	RESH-1001002	14-Nov-19	<1.00	---	---	---	---	---	---	---	Isotech
Surface Water 6- Skunk Camp											
Chimney Spring	RESH-1000873	05-Jun-18	---	---	---	---	4.4 ± 1.5	<0.73	2.57 ± 1.2	1.7	ACZ
Chimney Spring	RESH-1000873	05-Jun-18	---	80.31 ± 0.29	---	---	---	---	---	---	Beta Analytic
Chimney Spring	RESH-1000873	05-Jun-18	0.99 ± 0.25	---	---	---	---	---	---	---	Isotech
Chimney Spring	RESH-1000956	13-Jun-19	---	---	---	---	1.7 ± 1.2	<1.3	1.59 ± 0.99	1.1	ACZ
Chimney Spring	RESH-1000956	13-Jun-19	---	75.97 ± 0.27	---	---	---	---	---	---	Beta Analytic
Chimney Spring	RESH-1000956	13-Jun-19	0.77 ± 0.24	---	---	---	---	---	---	---	Isotech
Chimney Spring	RESH-1000995	13-Nov-19	---	---	---	---	4.3 ± 1.5	<1	1.24 ± 0.81	3.5	ACZ
Chimney Spring	RESH-1000995	13-Nov-19	---	79.66 ± 0.29	---	---	---	---	---	---	Beta Analytic
Chimney Spring	RESH-1000995	13-Nov-19	0.64 ± 0.18	---	---	---	---	---	---	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	---	---	---	---	3 ± 1.5	<1.2	3.06 ± 1.3	1	ACZ
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	---	---	<1.7	<2.7	<2.7	---	ACZ
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	98.78 ± 0.36	---	---	---	---	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	2.94 ± 0.29	---	---	---	---	---	---	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	---	---	<4.4	<2.3	<4.8	---	ACZ
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	100.35 ± 0.36	---	---	---	---	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	2.39 ± 0.24	---	---	---	---	---	---	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	---	---	2.2 ± 1.2	<0.51	<1.7	---	ACZ
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	101.53 ± 0.36	---	---	---	---	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	3.15 ± 0.27	---	---	---	---	---	---	---	Isotech

TABLE A-8. RADIOISOTOPE DATA
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Surface Water 6- Skunk Camp											
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	---	---	1.9 ± 1.1	<1.1	0.91 ± 1	2.1	ACZ
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	101.53 ± 0.36	---	---	---	---	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	2.79 ± 0.36	---	---	---	---	---	---	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	---	---	---	---	3.7 ± 1.4	<1.1	3.38 ± 1.3	1.1	ACZ
Haley Spring	RESH-1000991	11-Nov-19	---	---	---	---	17 ± 2.7	<0.7	3.47 ± 1.3	5	ACZ
Haley Spring	RESH-1000991	11-Nov-19	---	100.52 ± 0.37	---	---	---	---	---	---	Beta Analytic
Haley Spring	RESH-1000991	11-Nov-19	<1.17	---	---	---	---	---	---	---	Isotech
Indian Spring	RESH-1000955	13-Jun-19	---	---	---	---	<2.2	<0.6	<1.9	---	ACZ
Indian Spring	RESH-1000955	13-Jun-19	---	94.01 ± 0.34	---	---	---	---	---	---	Beta Analytic
Indian Spring	RESH-1000955	13-Jun-19	0.92 ± 0.26	---	---	---	---	---	---	---	Isotech
Indian Spring	RESH-1000996	13-Nov-19	---	---	---	---	3 ± 1.3	<0.72	1.45 ± 0.95	2	ACZ
Indian Spring	RESH-1000996	13-Nov-19	---	91.75 ± 0.33	---	---	---	---	---	---	Beta Analytic
Indian Spring	RESH-1000996	13-Nov-19	1.34 ± 0.22	---	---	---	---	---	---	---	Isotech
Looney Spring	RESH-1000864	24-May-18	---	---	---	---	3.9 ± 1.5	<0.99	3.17 ± 1.3	1.2	ACZ
Looney Spring	RESH-1000864	24-May-18	---	97.57 ± 0.35	---	---	---	---	---	---	Beta Analytic
Looney Spring	RESH-1000864	24-May-18	1.86 ± 0.29	---	---	---	---	---	---	---	Isotech
Looney Spring	RESH-1000990	11-Nov-19	---	---	---	---	2.6 ± 1.3	<0.77	1.61 ± 0.85	1.6	ACZ
Looney Spring	RESH-1000990	11-Nov-19	---	96.56 ± 0.35	---	---	---	---	---	---	Beta Analytic
Looney Spring	RESH-1000990	11-Nov-19	0.76 ± 0.25	---	---	---	---	---	---	---	Isotech
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	---	---	3.5 ± 1.6	<0.64	3.8 ± 1.8	0.9	ACZ
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	111.29 ± 0.38	---	---	---	---	---	---	Beta Analytic
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	2.57 ± 0.28	---	---	---	---	---	---	---	Isotech
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	---	---	3.9 ± 1.5	<1.4	2.87 ± 1.2	1.4	ACZ
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	107.16 ± 0.39	---	---	---	---	---	---	Beta Analytic
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	1.77 ± 0.29	---	---	---	---	---	---	---	Isotech
Stone Cabin Spring	RESH-1000921	13-Feb-19	---	---	---	---	4 ± 1.5	<0.58	<1.9	---	ACZ
Stone Cabin Spring	RESH-1000921	13-Feb-19	---	85.36 ± 0.31	---	---	---	---	---	---	Beta Analytic
Stone Cabin Spring	RESH-1000921	13-Feb-19	0.88 ± 0.27	---	---	---	---	---	---	---	Isotech
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	---	---	3.9 ± 1.4	<0.63	1.81 ± 0.88	2.2	ACZ
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	79.86 ± 0.29	---	---	---	---	---	---	Beta Analytic
Stone Cabin Spring	RESH-1000992	12-Nov-19	<0.47	---	---	---	---	---	---	---	Isotech
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	---	---	2.6 ± 1.4	<0.73	1.46 ± 1	1.8	ACZ
Woodchopper Spring	RESH-1000914	21-Jan-19	---	63.87 ± 0.23	---	---	---	---	---	---	Beta Analytic
Woodchopper Spring	RESH-1000914	21-Jan-19	1.39 ± 0.2	---	---	---	---	---	---	---	Isotech

TABLE A-8. RADIOISOTOPE DATA
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOISOTOPE DATA								ANALYTICAL LABORATORY
			³ H (TU) ^a	¹⁴ C (pmC) ^b	Sr (ppm) ^c	⁸⁷ Sr/ ⁸⁶ Sr ^d	²³⁴ U (pCi/L) ^e	²³⁵ U (pCi/L) ^f	²³⁸ U (pCi/L) ^g	²³⁴ U/ ²³⁸ U ^h	
Surface Water 6- Skunk Camp											
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	---	---	2.7 ± 1.2	<0.65	0.84 ± 0.65	3.2	ACZ
Woodchopper Spring	RESH-1000997	13-Nov-19	---	66.24 ± 0.24	---	---	---	---	---	---	Beta Analytic
Woodchopper Spring	RESH-1000997	13-Nov-19	<0.99	---	---	---	---	---	---	---	Isotech

a ³H = Tritium; tritium unit (1 TU = 1 tritium atom per 10¹⁸ atoms of hydrogen)
b ¹⁴C = carbon-14; pmC = percent modern carbon
c Sr = strontium; ppm = parts per million
d Mass of strontium-87 isotope divided by mass of strontium-86 isotope
e Uranium-234 isotope; pCi/L = activity in picoCuries per liter
f Uranium-235 isotope; pCi/L = activity in picoCuries per liter
g Uranium-238 isotope; pCi/L = activity in picoCuries per liter
h Activity of uranium-234 isotope divided by activity of uranium-238 isotope

--- = Not available, not applicable
-- = Not calculated due to non-detect

Explanation of Codes
Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicates
SP = Split samples
SPD = Split-Duplicates

TABLE A-9. RADIOLOGICAL DATA
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	RADIOLOGICAL CONSTITUENTS ^a									ANALYTICAL LABORATORY
			Adjusted Gross Alpha ^b (pCi/L)	Gross Alpha (pCi/L)	Gross Beta (pCi/L)	Ra-226 (pCi/L)	Ra-228 (pCi/L)	Ra-226 + Ra-228 (pCi/L)	Total Th (mg/L) ^c	Total U (pCi/L)	Total U (mg/L)	
Surface Water 3 - Mineral Creek												
Laguna Spring	RESH-1000999	14-Nov-19	-5.9	<14	<12	0.73 ± 0.3	<7	0.73	<0.001	---	0.0024	ACZ
Sump Spring	RESH-1000966	14-Aug-19	2.4	<13	<8.5	0.45 ± 0.16	<3.7	0.45	<0.001	---	0.0011	ACZ
Sump Spring	RESH-1000998	14-Nov-19	0.20	<7.7	<9.4	0.37 ± 0.29	<5.1	0.37	<0.001	---	0.0031	ACZ
Walnut Spring	RESH-1000912	15-Jan-19	-0.30	<6.6	<6.8	0.24 ± 0.11	0.7 ± 0.67	0.94	---	---	0.0008	ACZ
Walnut Spring	RESH-1001002	14-Nov-19	-1.1	<7.8	<8.4	0.4 ± 0.1	<2	0.4	<0.001	---	0.0008	ACZ
Surface Water 6- Skunk Camp												
Chimney Spring	RESH-1000873	05-Jun-18	-4.7	<8.1	<9.6	<0.06	<0.64	ND	---	---	0.001	ACZ
Chimney Spring	RESH-1000956	13-Jun-19	-2.5	<9	6.8 ± 2.9	0.2 ± 0.09	<0.78	0.2	<0.001	---	0.0006	ACZ
Chimney Spring	RESH-1000995	13-Nov-19	-4.7	<12	<7.1	0.29 ± 0.11	<2.3	0.29	<0.001	---	0.0012	ACZ
Gila River below Dripping Spring Wash	RESH-1000897	09-Nov-18	2.4	<15	12 ± 4.9	0.27 ± 0.15	1.6 ± 0.76	1.87	---	---	0.0029	ACZ
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	3.3	<7.1	<7.7	<0.45	<1.4	ND	<0.001	---	0.0022	ACZ
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	1.8	<9	<8.5	<0.25	<0.88	ND	<0.001	---	0.0024	ACZ
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	-1.6	<9	<8.5	0.28 ± 0.08	<3.2	0.28	<0.001	---	0.0029	ACZ
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	-1.1	<9	7.4 ± 3.1	0.49 ± 0.21	<1.7	0.49	<0.001	---	0.0031	ACZ
Gila River below Dripping Spring Wash	RESH-1000989	11-Nov-19	-8.2	<8.7	<5.4	0.24 ± 0.08	<1.8	0.24	<0.001	---	0.0022	ACZ
Haley Spring	RESH-1000991	11-Nov-19	-18	<9.4	<12	0.23 ± 0.07	3 ± 0.94	3.23	<0.001	---	0.0053	ACZ
Indian Spring	RESH-1000955	13-Jun-19	2.8	<7.2	<7.3	0.17 ± 0.07	<0.76	0.17	<0.001	---	0.0009	ACZ
Indian Spring	RESH-1000996	13-Nov-19	-3.5	<8	<5.3	<0.12	<2.3	ND	<0.001	---	0.0009	ACZ
Looney Spring	RESH-1000864	24-May-18	-8.0	<11	<11	0.12 ± 0.12	<2.3	0.12	---	---	<0.0002	ACZ
Looney Spring	RESH-1000990	11-Nov-19	-6.9	<15	<12	<0.22	<1.8	ND	<0.001	---	0.0004 j	ACZ
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	-7.3	<22	<22	<0.09	0.66 ± 0.6	0.66	---	---	0.0024	ACZ
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	-3.5	<33	<29	0.3 ± 0.12	1.8 ± 0.86	2.1	<0.001	---	0.0028	ACZ
Stone Cabin Spring	RESH-1000921	13-Feb-19	-1.8	<6.2	<4.3	<0.07	<0.65	ND	---	---	0.0008	ACZ
Stone Cabin Spring	RESH-1000992	12-Nov-19	-7.1	<8	<6.8	0.17 ± 0.1	<1.9	0.17	<0.001	---	0.0007	ACZ
Woodchopper Spring	RESH-1000914	21-Jan-19	-1.1	<9	<7	0.64 ± 0.2	1.7 ± 0.84	2.34	---	---	0.001	ACZ
Woodchopper Spring	RESH-1000997	13-Nov-19	-0.74	<7.6	<9.3	0.25 ± 0.09	<2.1	0.25	<0.001	---	0.0009	ACZ
Arizona Numeric Aquifer Water Quality Standards			15 pCi/L	---	50 pCi/L	---	---	5 pCi/L	---	---	---	

Values in red are above Arizona numeric water quality standards

Values in blue indicate that detection limit exceeds Arizona numeric water quality standard

^a Ra-226 = Radium 226
Ra-228 = Radium 228
U = Uranium
Th = Thorium

< = Less than reported detection limit
--- = Not available, not applicable
-- = Not calculated due to non-detect

^b pCi/L = picocuries per liter

^d pCi/L alert level for EPA and Arizona Numeric Standard of 4 mrem/year (milliroentgen equivalent man per year)

^c mg/L = milligrams per liter

Explanation of Codes

Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicate
SP = Split sample
SPD = Split-Duplicate

TABLE A-10. STABLE ISOTOPE DATA
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	ISOTOPES					ANALYTICAL LABORATORY
			$\delta^{18}\text{O}^{\text{a}}$ (‰)	$\delta\text{D}^{\text{b}}$ (‰)	$\delta^{13}\text{C}$ in DIC ^c (‰)	$\delta^{34}\text{S}^{\text{d}}$ (‰)	$\delta^{18}\text{O}$ in SO_4^{e} (‰)	
Surface Water 3 - Mineral Creek								
Laguna Spring	RESH-1000999	14-Nov-19	---	---	-12.60	---	---	Beta Analytic
Laguna Spring	RESH-1000999	14-Nov-19	-8.83	-61.8	---	6.1	---	Isotech
Sump Spring	RESH-1000966	14-Aug-19	---	---	-11.60	---	---	Beta Analytic
Sump Spring	RESH-1000966	14-Aug-19	-8.98	-64.4	---	10.7	---	Isotech
Sump Spring	RESH-1000998	14-Nov-19	---	---	-11.60	---	---	Beta Analytic
Sump Spring	RESH-1000998	14-Nov-19	-9.41	-67.5	---	7.9	---	Isotech
Walnut Spring	RESH-1000912	15-Jan-19	---	---	-11.90	---	---	Beta Analytic
Walnut Spring	RESH-1000912	15-Jan-19	-9.52	-69.0	---	3.2	---	Isotech
Walnut Spring	RESH-1001002	14-Nov-19	---	---	-11.90	---	---	Beta Analytic
Walnut Spring	RESH-1001002	14-Nov-19	-9.49	-68.1	---	3.6	---	Isotech
Surface Water 6- Skunk Camp								
Chimney Spring	RESH-1000873	05-Jun-18	---	---	-7.3	---	---	Beta Analytic
Chimney Spring	RESH-1000873	05-Jun-18	-7.02	-59.3	---	12.2	---	Isotech
Chimney Spring	RESH-1000956	13-Jun-19	---	---	-8.30	---	---	Beta Analytic
Chimney Spring	RESH-1000956	13-Jun-19	-8.33	-62.3	---	14.3	---	Isotech
Chimney Spring	RESH-1000995	13-Nov-19	---	---	-8.90	---	---	Beta Analytic
Chimney Spring	RESH-1000995	13-Nov-19	-8.88	-65.2	---	11.3	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	---	---	-7.80	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000942	16-Apr-19	-8.83	-65.2	---	5.8	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	---	---	-8.00	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000964	30-Jul-19	-7.34	-59.2	---	7.3	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	---	---	-4.60	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000974	29-Aug-19	-6.31	-53.4	---	7.4	---	Isotech
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	---	---	-4.60	---	---	Beta Analytic
Gila River below Dripping Spring Wash	RESH-1000975	11-Sep-19	-5.93	-51.3	---	7.6	---	Isotech
Haley Spring	RESH-1000991	11-Nov-19	---	---	-12.70	---	---	Beta Analytic
Haley Spring	RESH-1000991	11-Nov-19	-10.45	-71.8	---	12.3	---	Isotech
Indian Spring	RESH-1000955	13-Jun-19	---	---	-13.20	---	---	Beta Analytic
Indian Spring	RESH-1000955	13-Jun-19	-9.46	-67.4	---	2.3	---	Isotech
Indian Spring	RESH-1000996	13-Nov-19	---	---	-12.30	---	---	Beta Analytic
Indian Spring	RESH-1000996	13-Nov-19	-9.66	-68.2	---	2.3	---	Isotech
Looney Spring	RESH-1000864	24-May-18	---	---	-10.2	---	---	Beta Analytic
Looney Spring	RESH-1000864	24-May-18	-8.51	-64.6	---	7.4	---	Isotech
Looney Spring	RESH-1000990	11-Nov-19	---	---	-12.90	---	---	Beta Analytic
Looney Spring	RESH-1000990	11-Nov-19	-9.79	-68.0	---	8.5	---	Isotech

TABLE A-10. STABLE ISOTOPE DATA
FOR SKUNK CAMP SURFACE WATER QUALITY SAMPLES 2018-2020

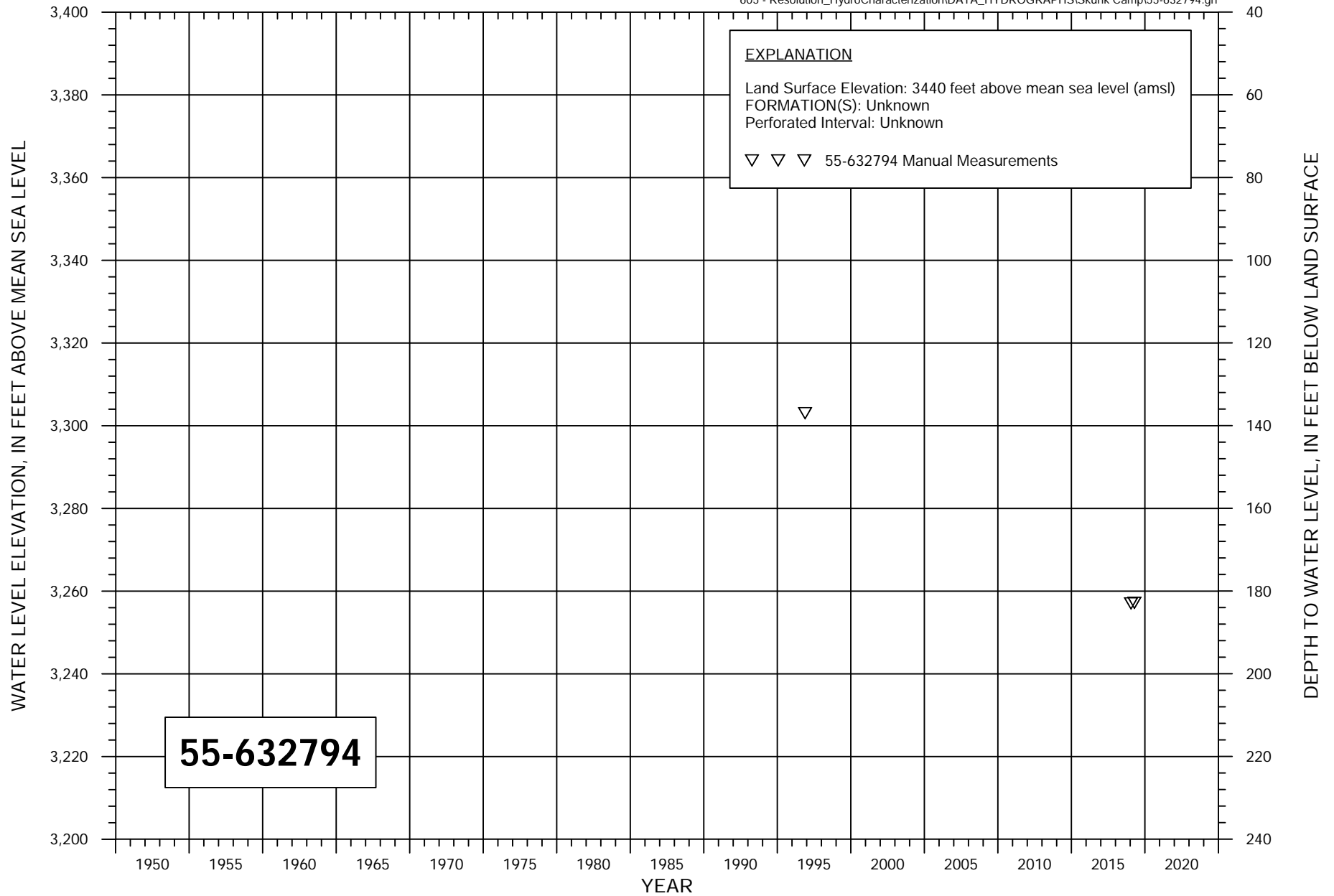
SAMPLE LOCATION	SAMPLE IDENTIFIER/ DESCRIPTION	SAMPLE DATE	ISOTOPES					ANALYTICAL LABORATORY
			$\delta^{18}\text{O}^{\text{a}}$ (‰)	$\delta\text{D}^{\text{b}}$ (‰)	$\delta^{13}\text{C}$ in DIC ^c (‰)	$\delta^{34}\text{S}^{\text{d}}$ (‰)	$\delta^{18}\text{O}$ in SO_4^{e} (‰)	
Surface Water 6- Skunk Camp								
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	---	---	-13.3	---	---	Beta Analytic
Stone Cabin Box Spring	RESH-1000878	05-Jun-18	-6.21	-52.8	---	9.5	---	Isotech
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	---	---	-13.10	---	---	Beta Analytic
Stone Cabin Box Spring	RESH-1000993	12-Nov-19	-8.82	-62.4	---	2.4	---	Isotech
Stone Cabin Spring	RESH-1000921	13-Feb-19	---	---	-14.10	---	---	Beta Analytic
Stone Cabin Spring	RESH-1000921	13-Feb-19	-10.02	-70.4	---	6.3	---	Isotech
Stone Cabin Spring	RESH-1000992	12-Nov-19	---	---	-13.80	---	---	Beta Analytic
Stone Cabin Spring	RESH-1000992	12-Nov-19	-9.93	-70.1	---	7.2	---	Isotech
Woodchopper Spring	RESH-1000914	21-Jan-19	---	---	-9.20	---	---	Beta Analytic
Woodchopper Spring	RESH-1000914	21-Jan-19	-9.40	-66.1	---	14.6	---	Isotech
Woodchopper Spring	RESH-1000997	13-Nov-19	---	---	-8.40	---	---	Beta Analytic
Woodchopper Spring	RESH-1000997	13-Nov-19	-9.25	-66.1	---	14.7	---	Isotech

a $\delta^{18}\text{O}$ (‰) = delta oxygen-18 (per mil)
b δD (‰) = delta deuterium (per mil)
c $\delta^{13}\text{C}$ in DIC (‰) = delta carbon-13 in dissolved inorganic carbon (per mil)
d $\delta^{34}\text{S}$ (‰) = delta sulfur-34 (per mil)
e $\delta^{18}\text{O}$ in SO_4 (‰) = delta oxygen-18 in sulfate (per mil)

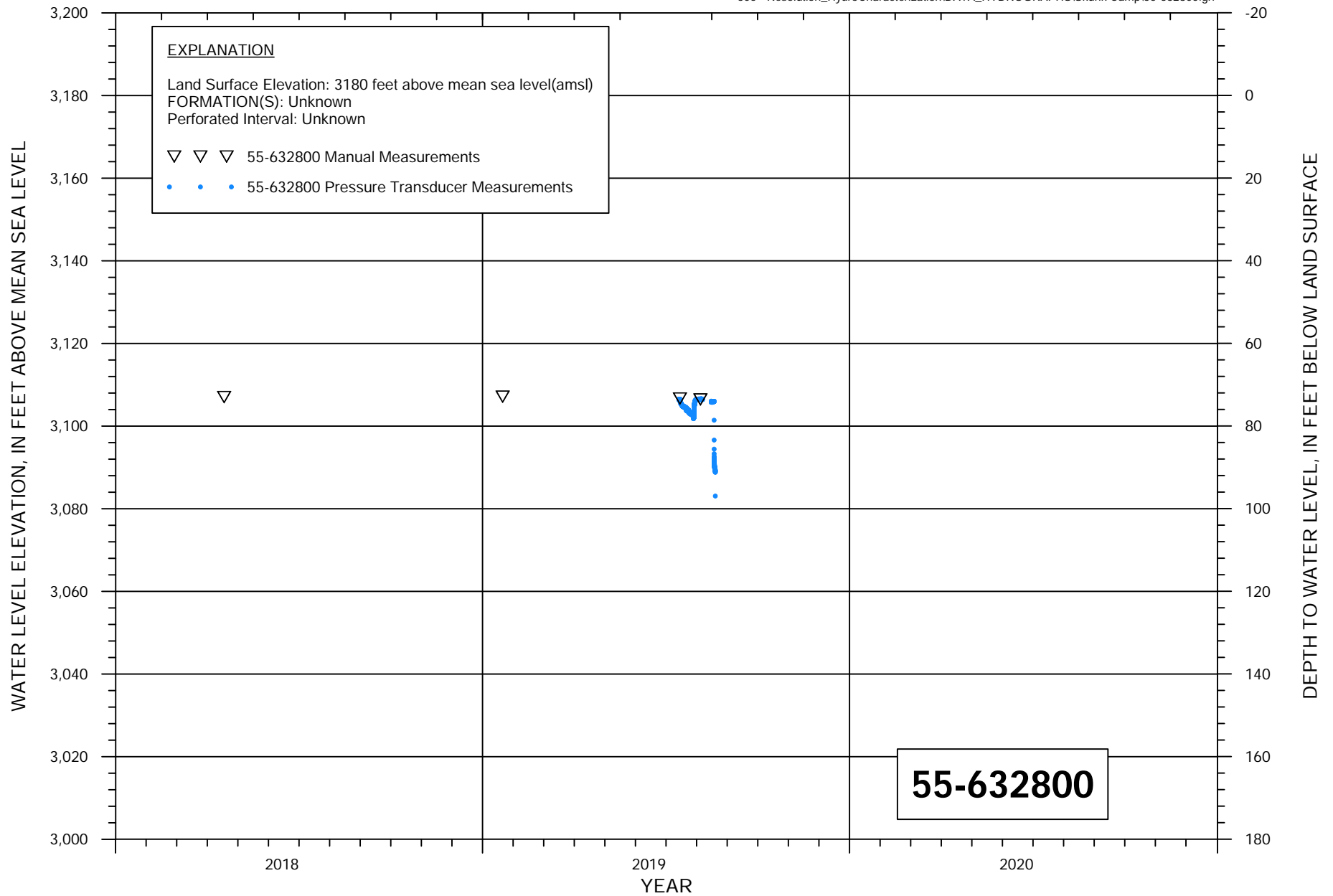
--- = Not available, not applicable
-- = Not calculated due to non-detect

Explanation of Codes
Absent = Analyte not present
ge = Greater than or equal to reported value
i = Insufficient sample
j = Estimated value
j+ = Estimated value, high bias
j- = Estimated value, low bias
Lost = Sample lost in processing
n = Not measured
na = Not available
ND = Not Detected
np = Analyte not applicable

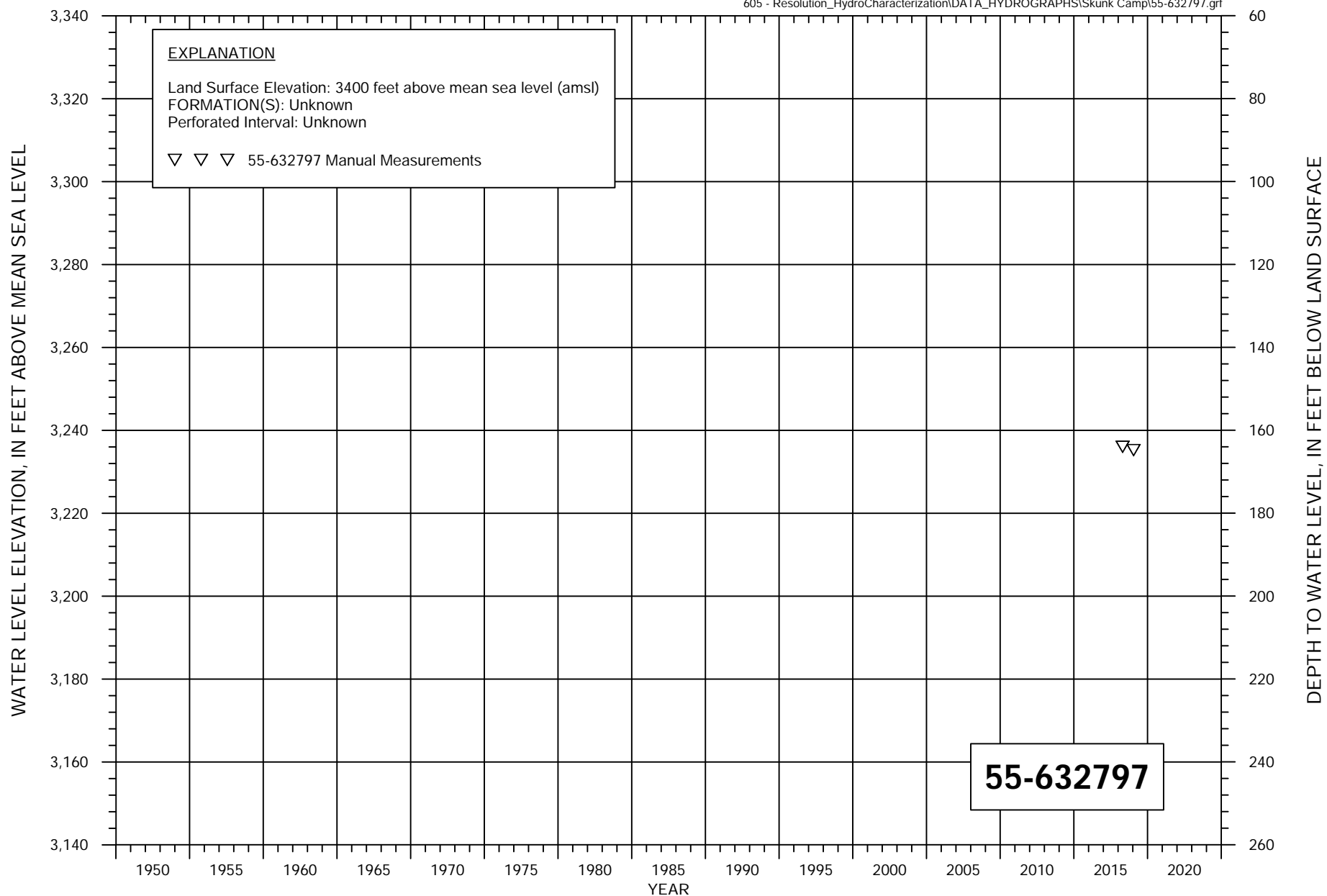
Present = Analyte was detected
q = Uncertain value
r = Unusable data
< = Less than reported detection limit
> = Greater than reported value
d = Diluted. Diluted samples are indicated only when value is estimated.
DUP = Field Duplicate
LD = Laboratory duplicate
SP = Split sample
SPD = Split-Duplicate



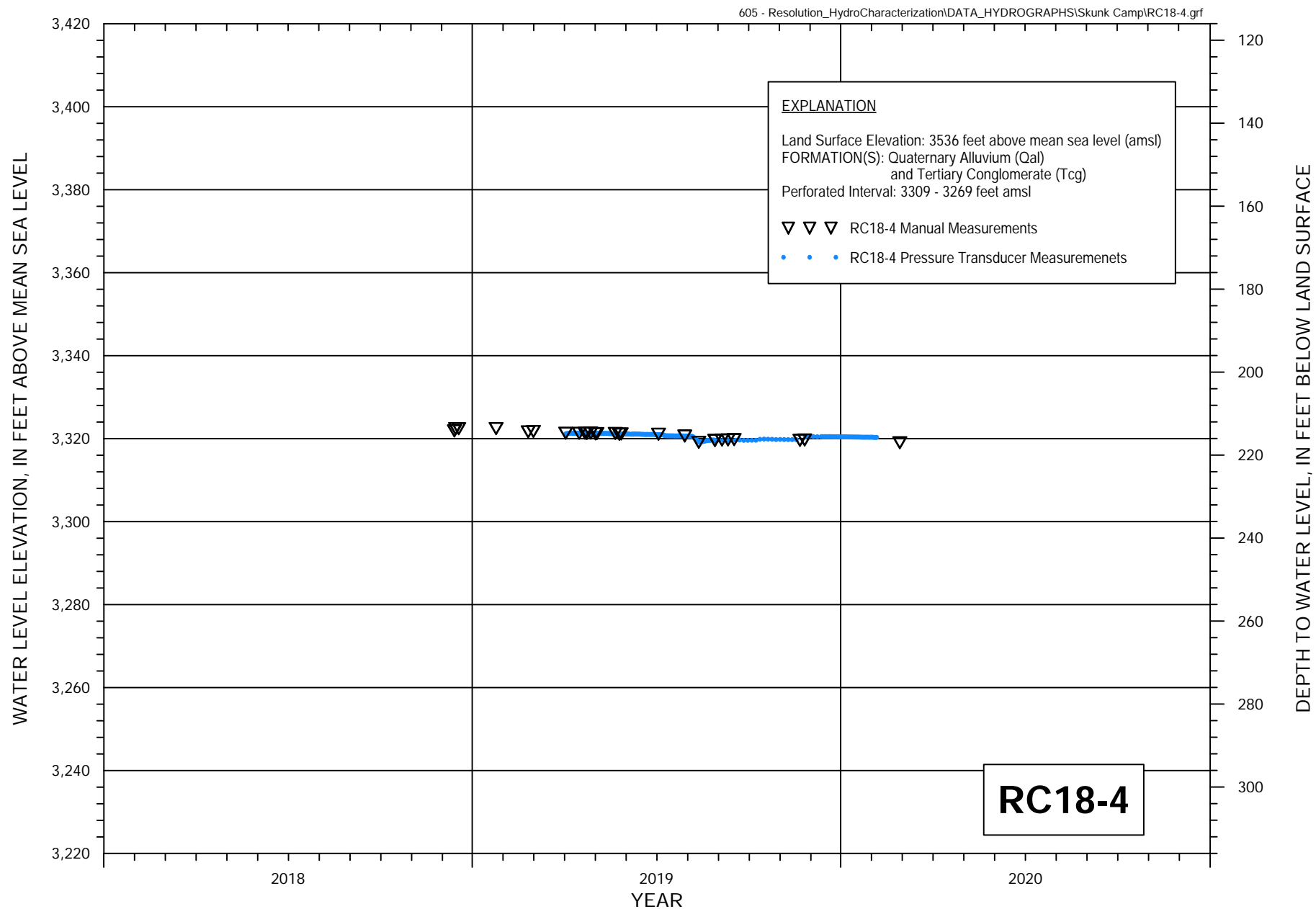
**FIGURE B-1. HYDROGRAPH OF WATER LEVEL
AT WELL 55-632794**



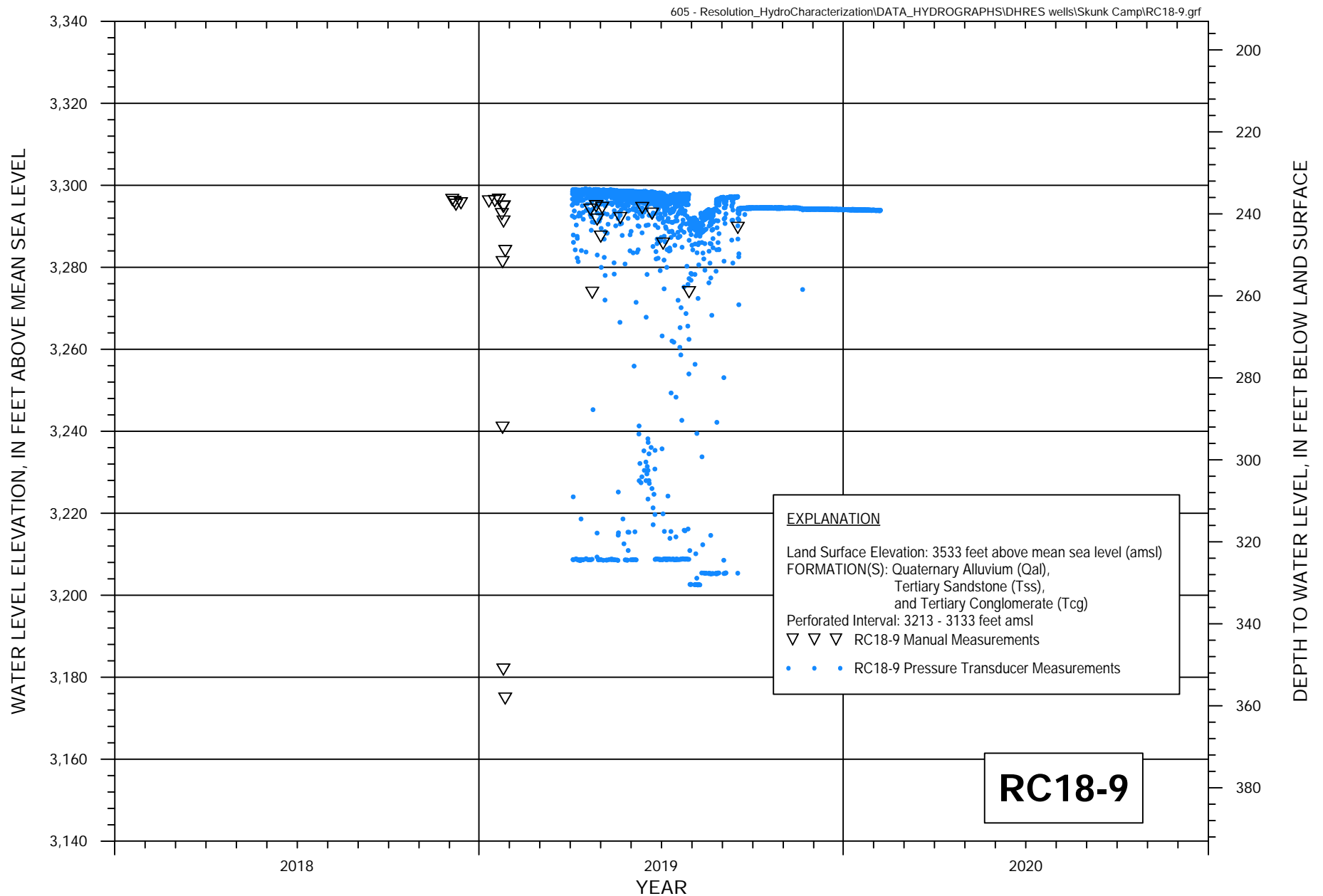
**FIGURE B-2. HYDROGRAPH OF WATER LEVEL
AT WELL 55-632800**



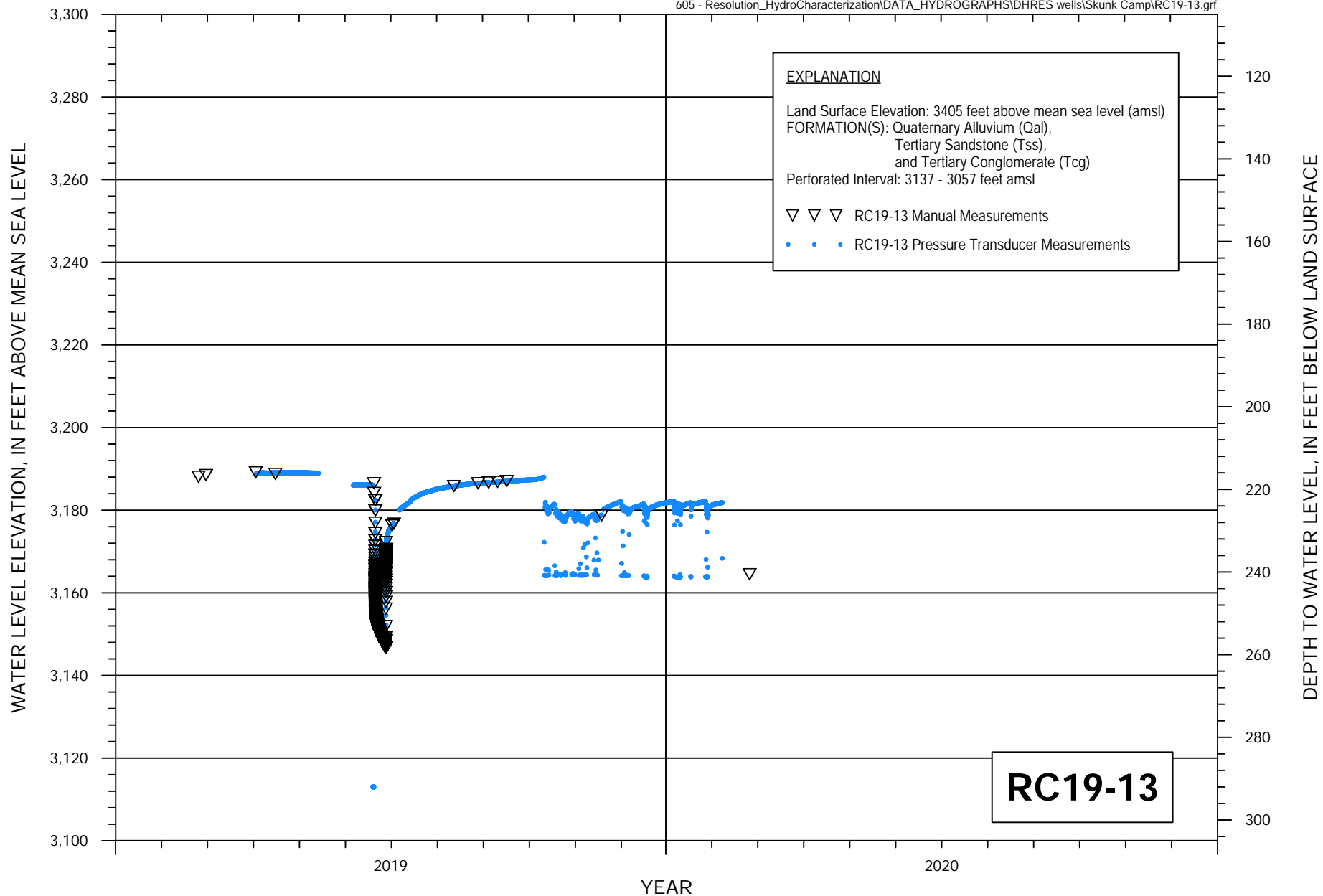
**FIGURE B-3. HYDROGRAPH OF WATER LEVEL
AT WELL 55-632797**



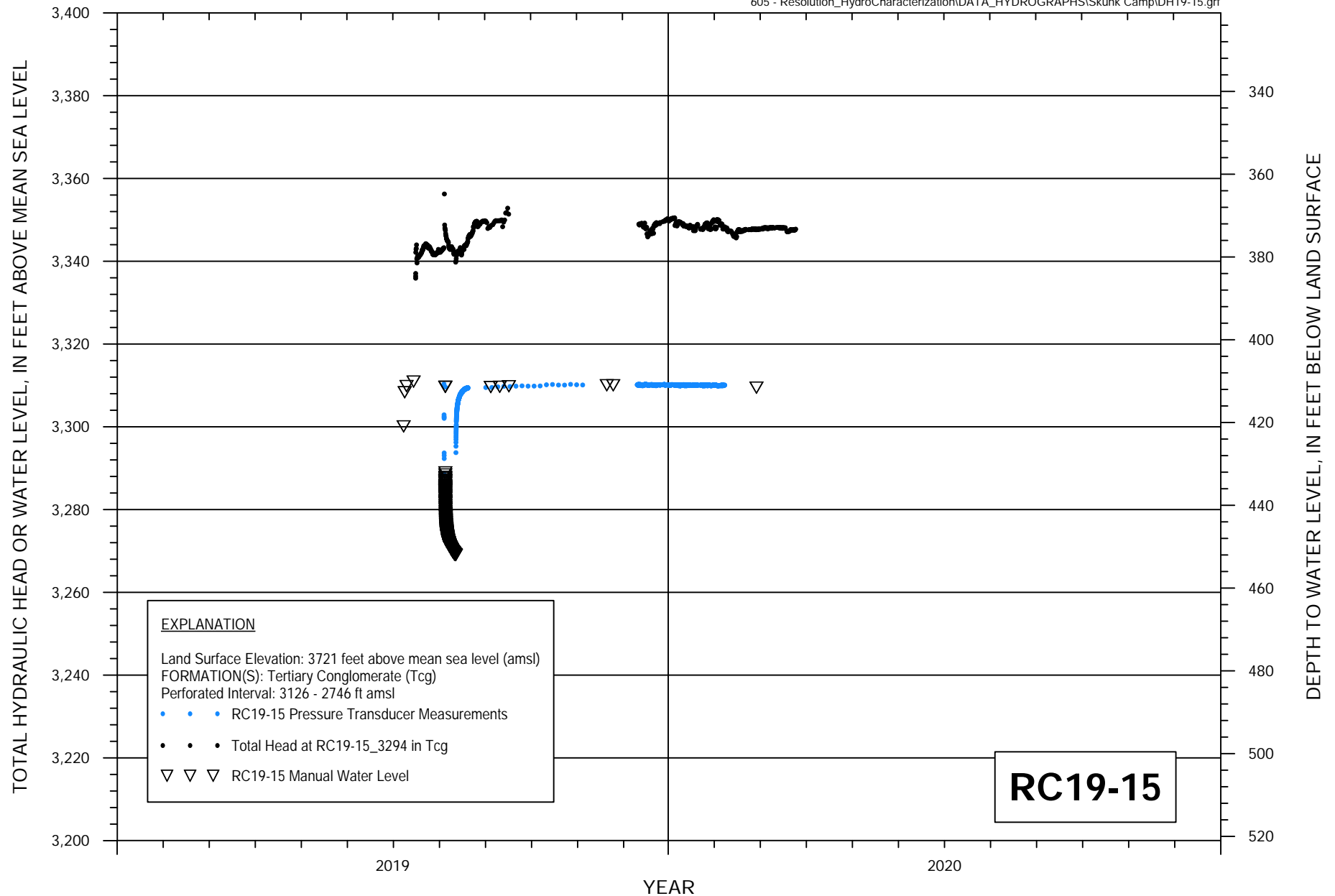
**FIGURE B-4. HYDROGRAPH OF WATER LEVEL
AT HYDROLOGIC TEST WELL RC18-4**



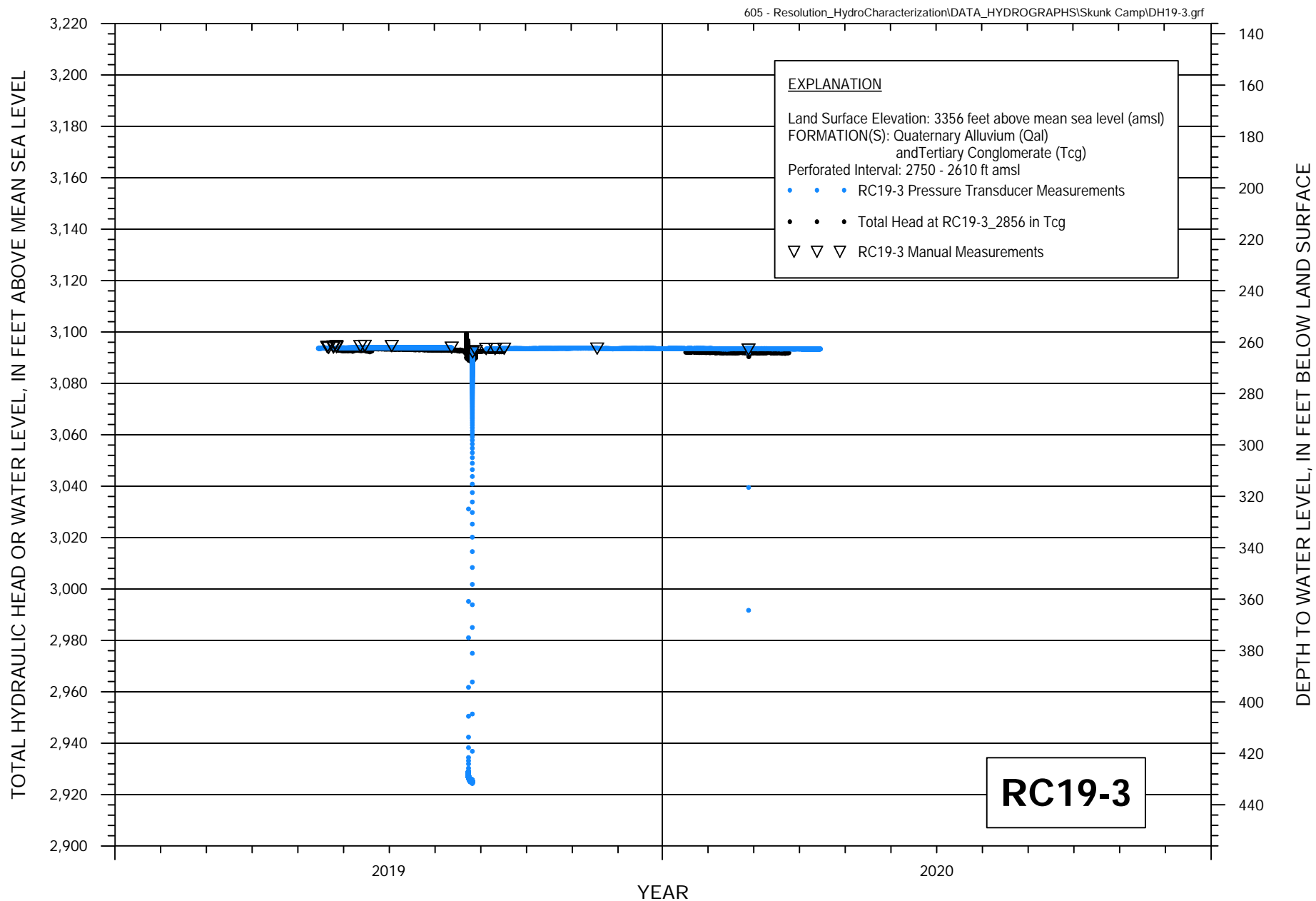
**FIGURE B-5. HYDROGRAPH OF WATER LEVEL
FOR HYDROLOGIC TEST WELL RC18-9**



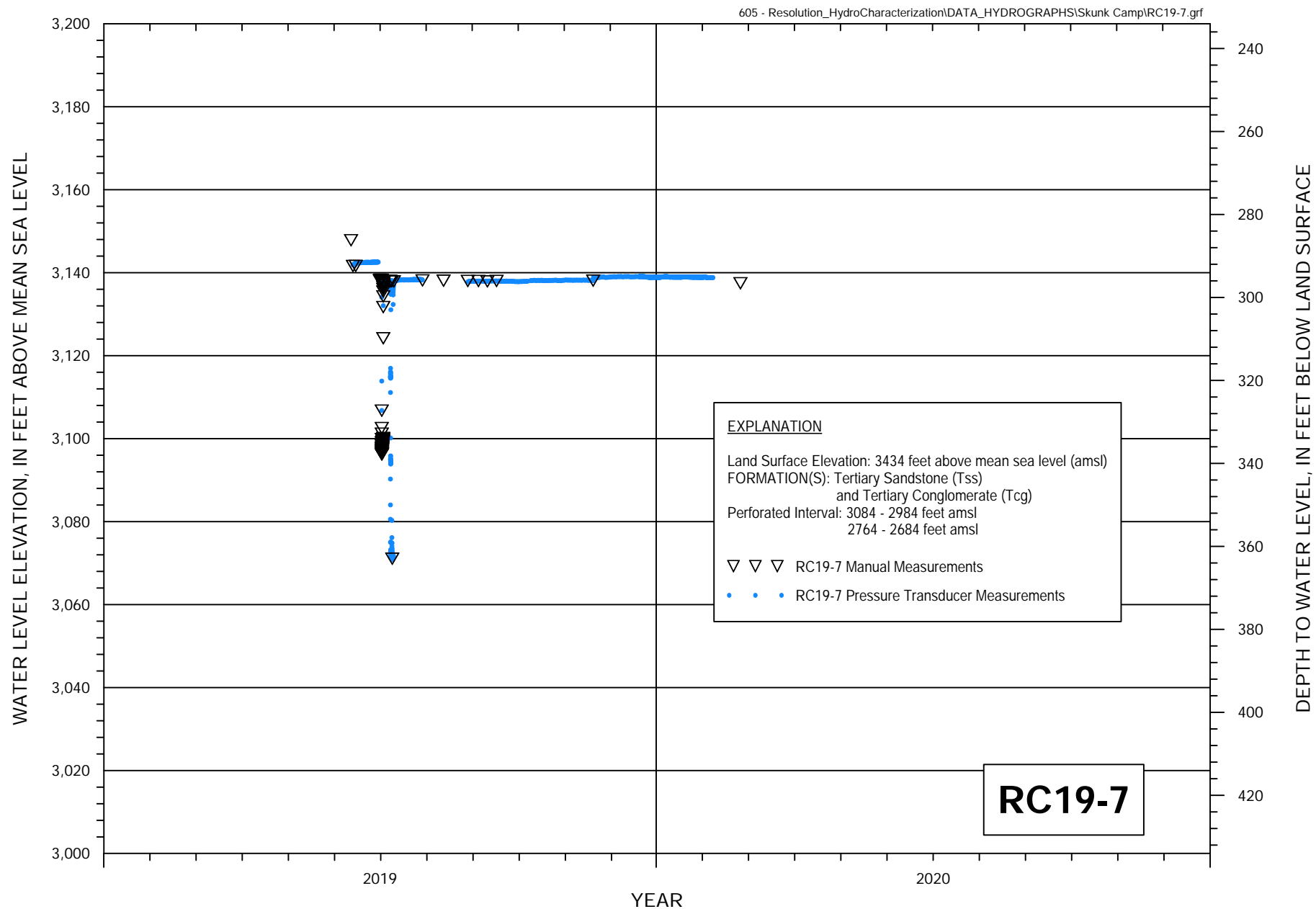
**FIGURE B-6. HYDROGRAPH OF WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-13**



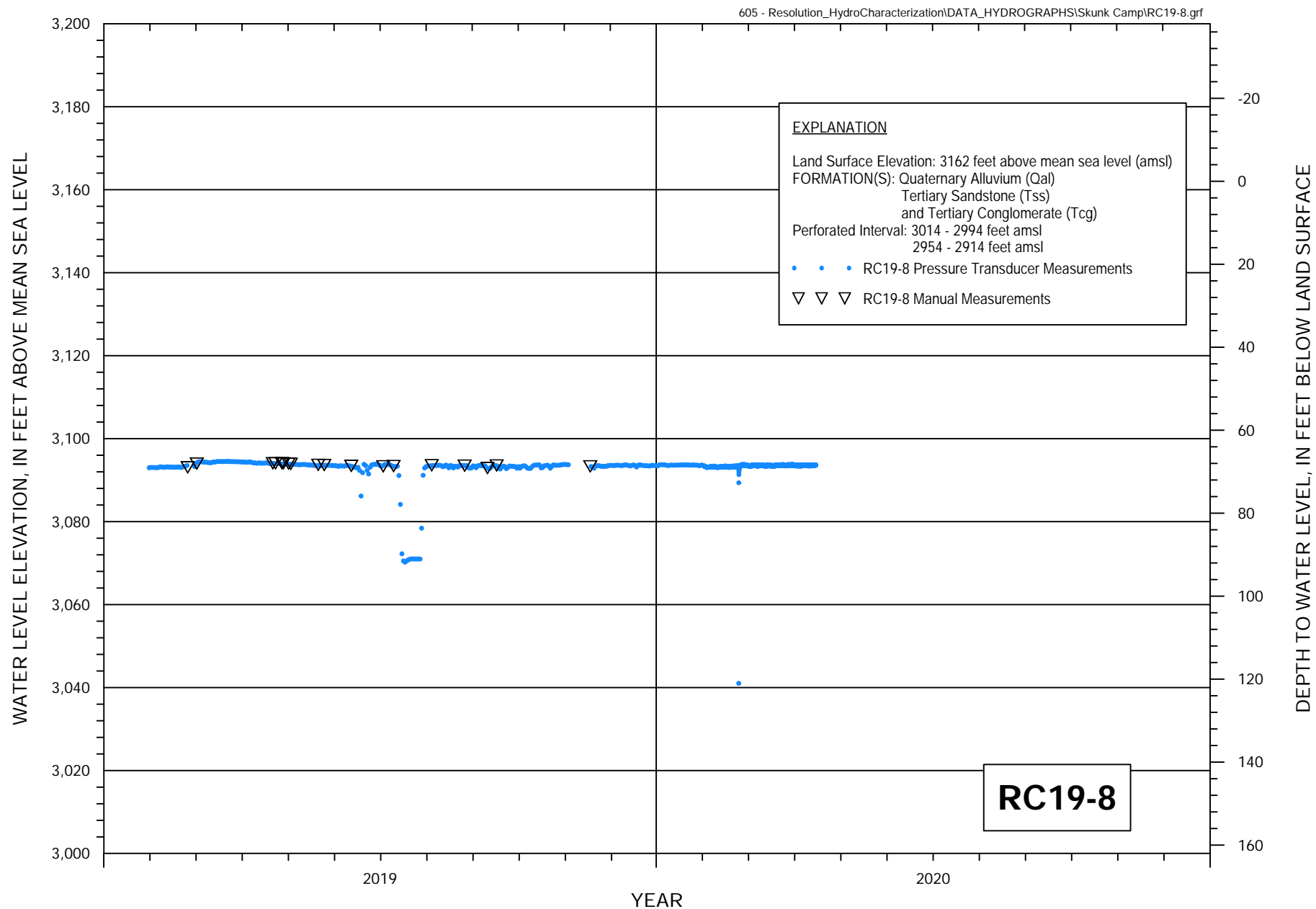
**FIGURE B-7. HYDROGRAPH OF TOTAL HYDRAULIC HEAD AND WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-15**



**FIGURE B-8. HYDROGRAPH OF TOTAL HYDRAULIC HEAD AND WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-3**



**FIGURE B-9. HYDROGRAPH OF WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-7**



**FIGURE B-10. HYDROGRAPH OF WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-8**

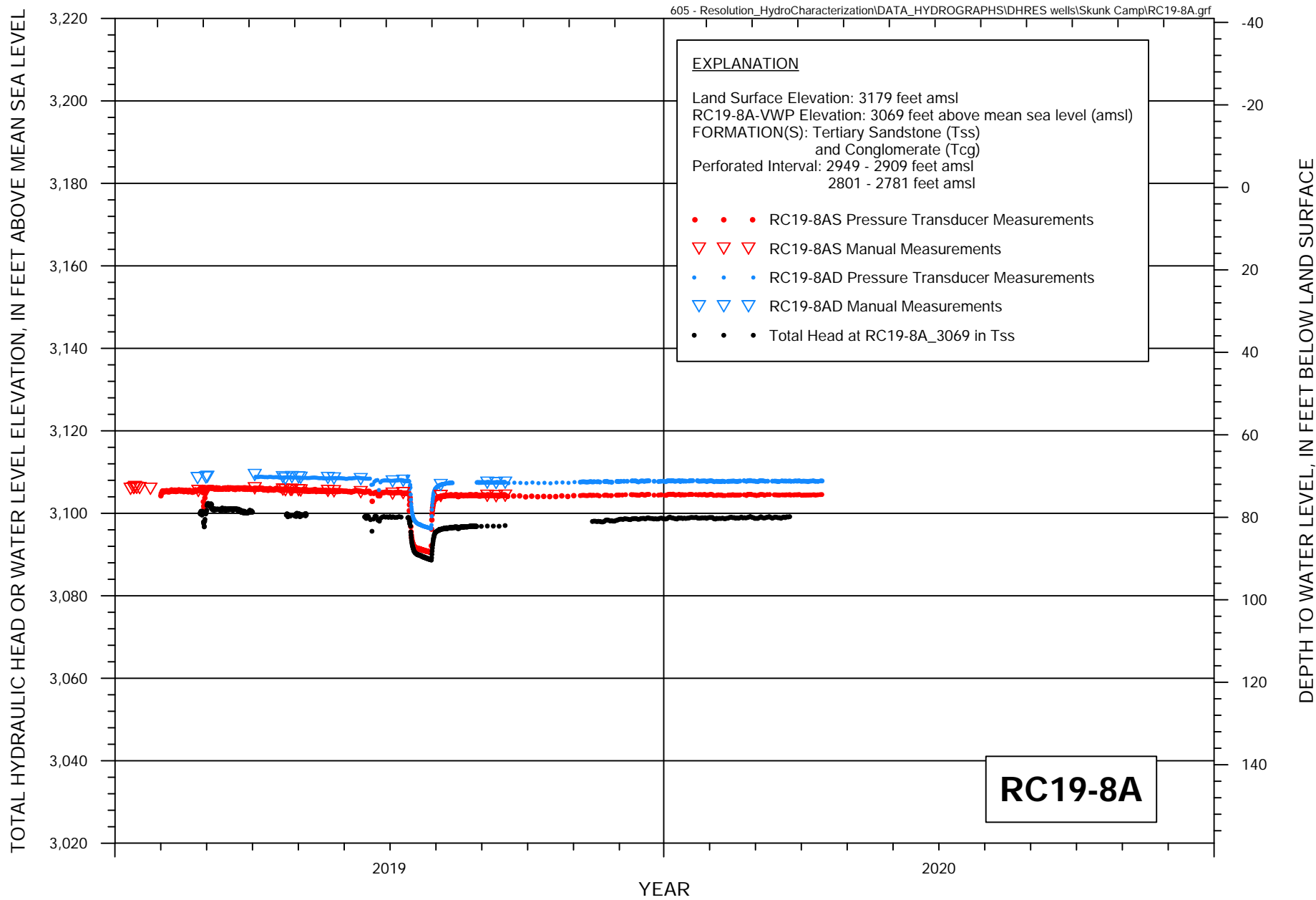
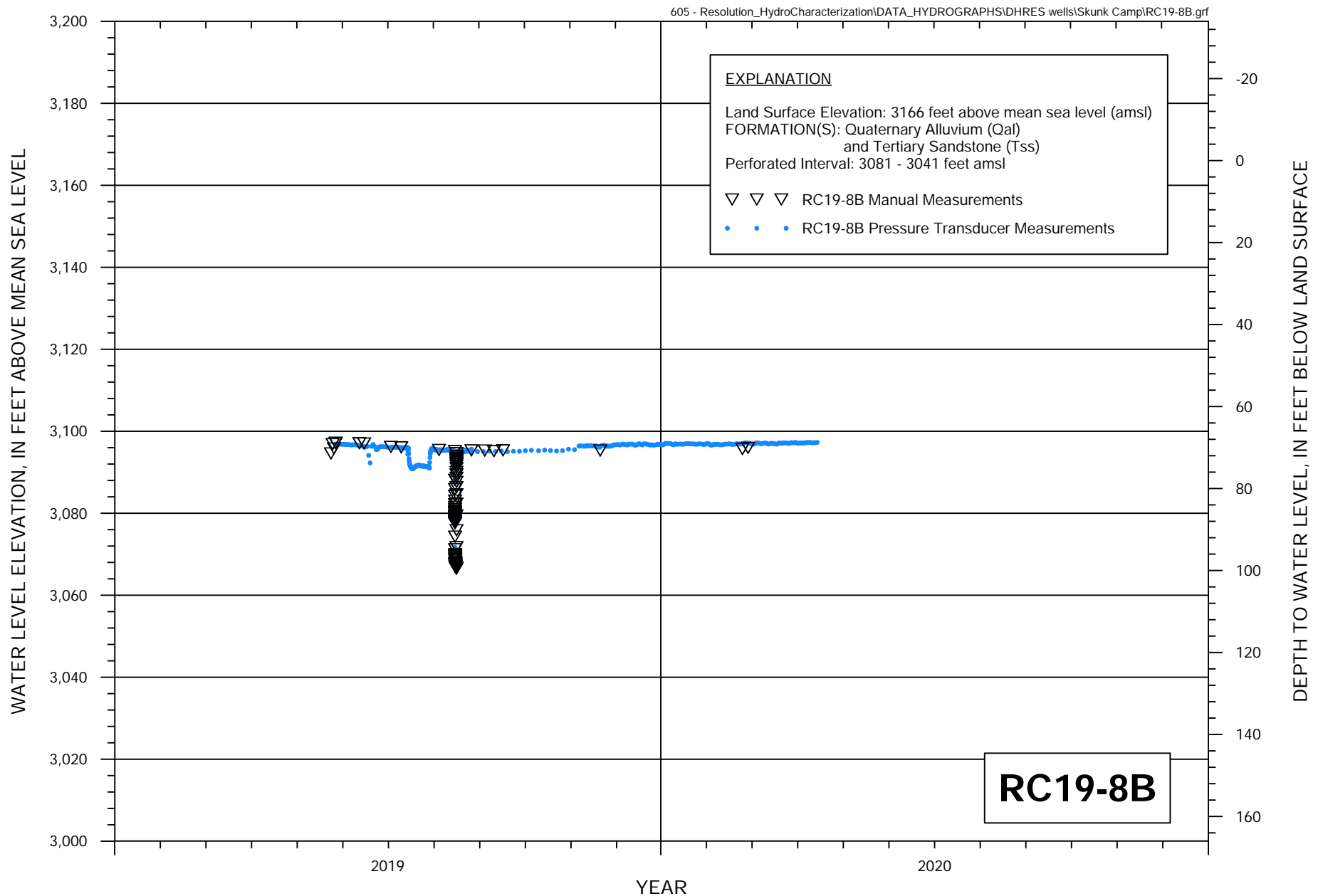
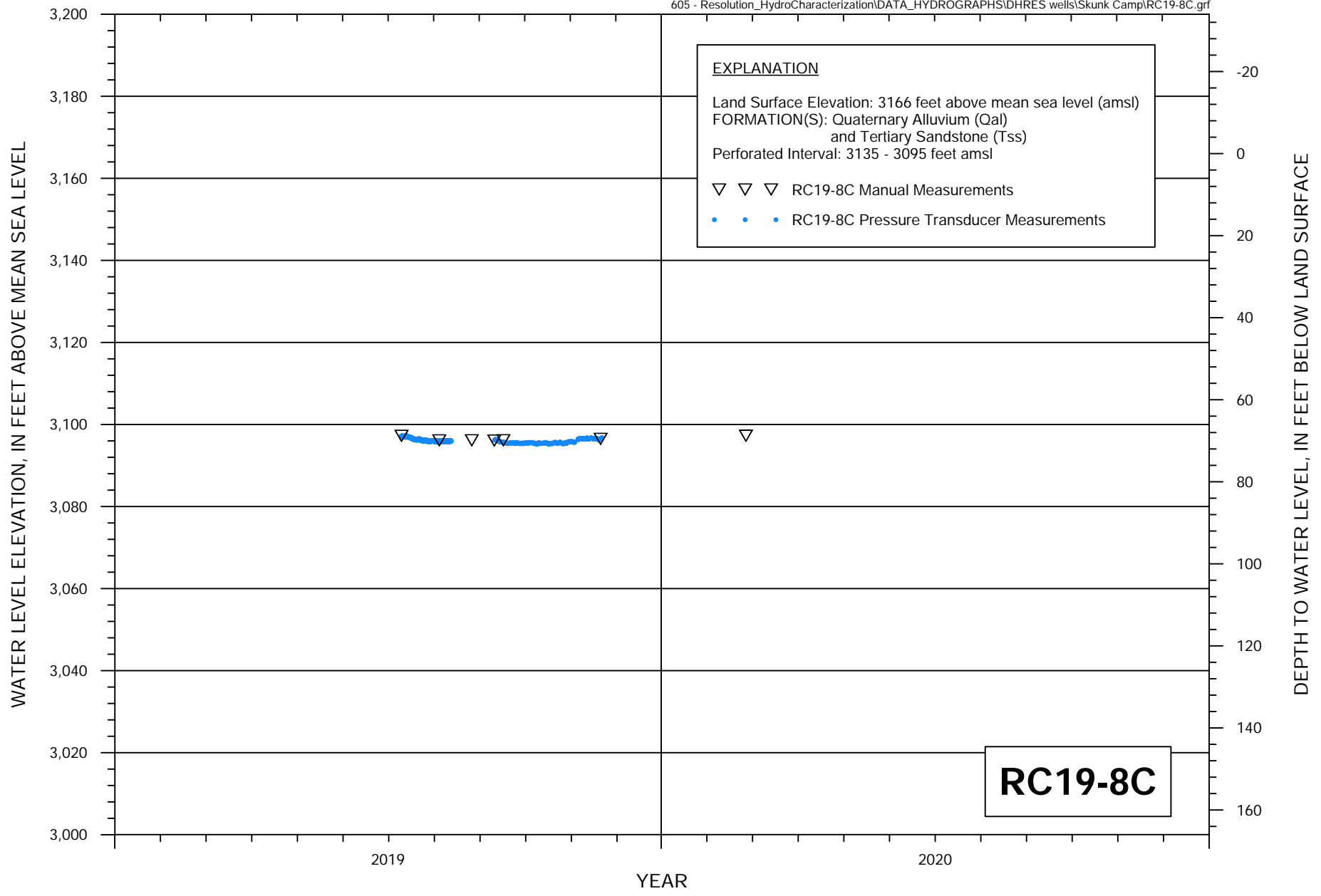


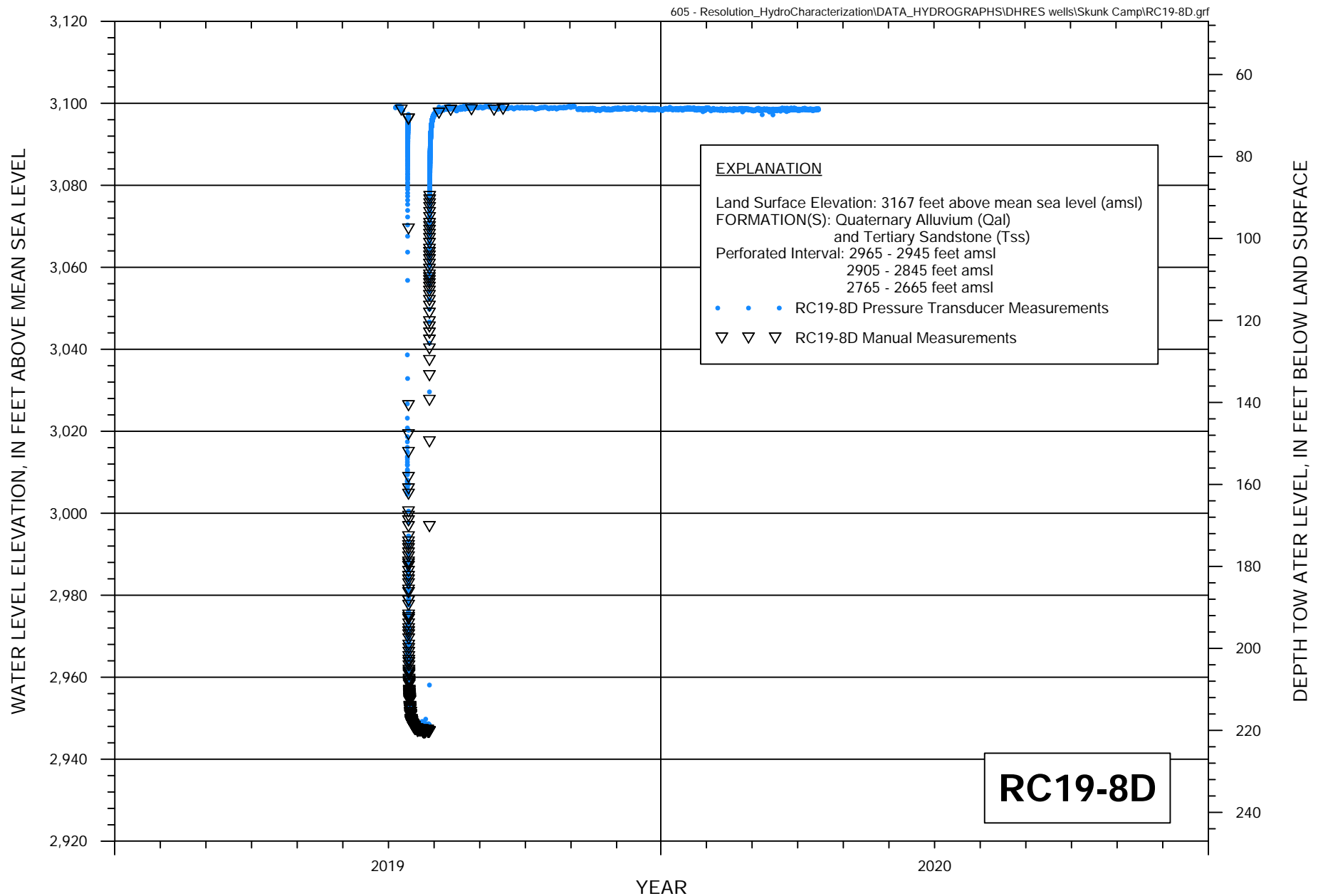
FIGURE B-11. HYDROGRAPH OF WATER LEVEL AND TOTAL HYDRAULIC HEAD AT HYDROLOGIC TEST WELL RC19-8A



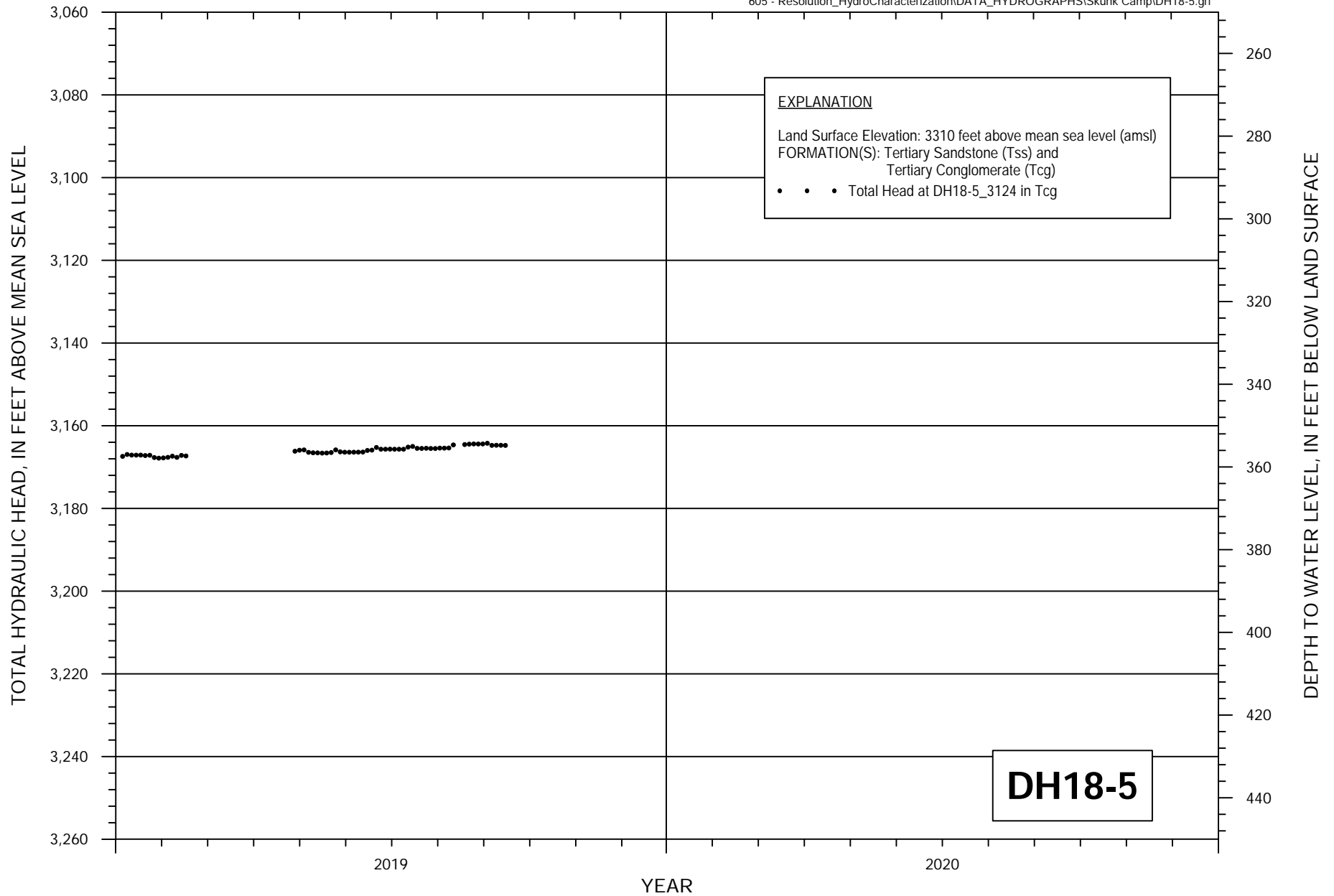
**FIGURE B-12. HYDROGRAPH OF WATER LEVEL ELEVATION
AT HYDROLOGIC TEST WELL RC19-8B**



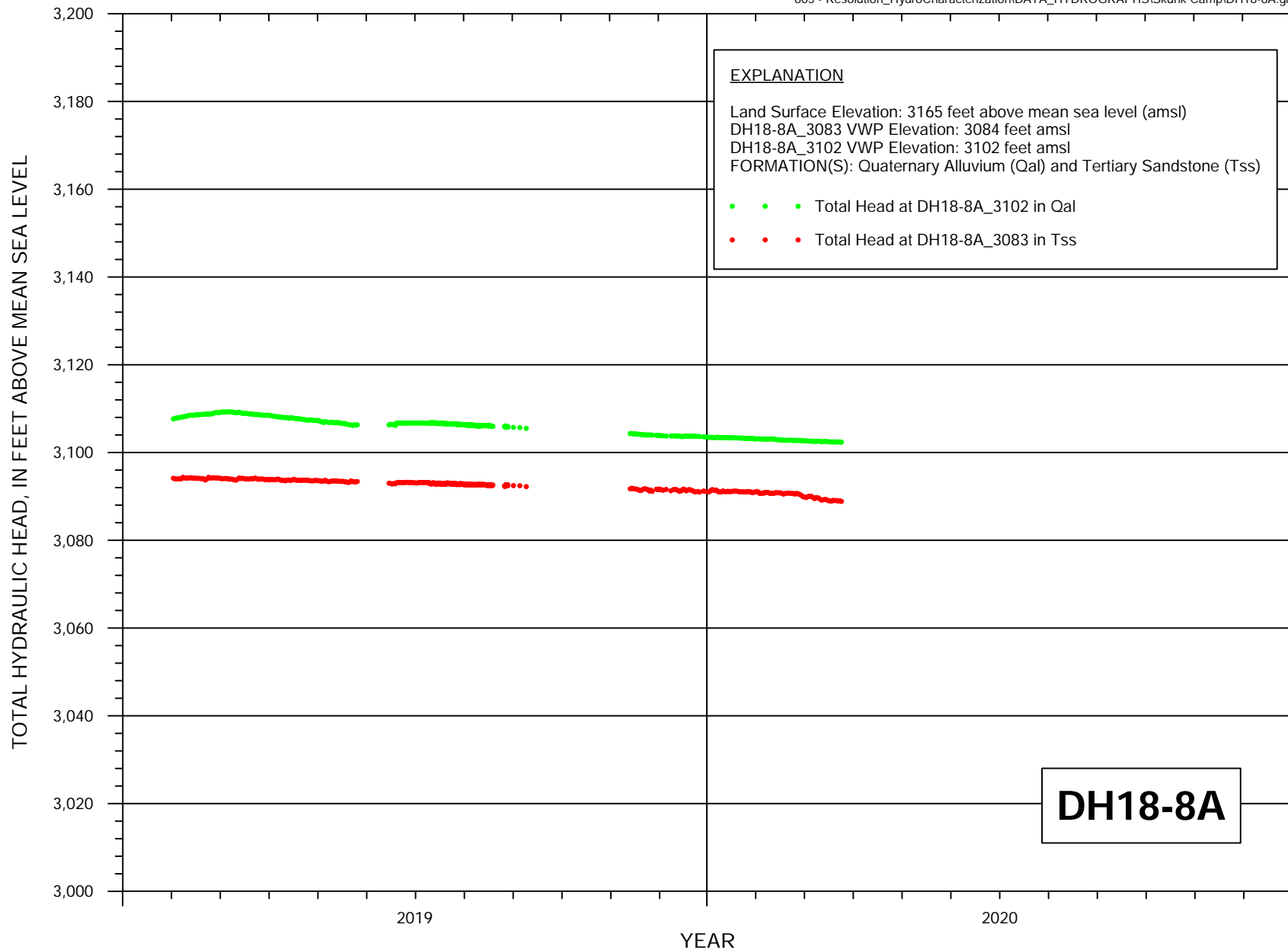
**FIGURE B-13. HYDROGRAPH OF WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-8C**



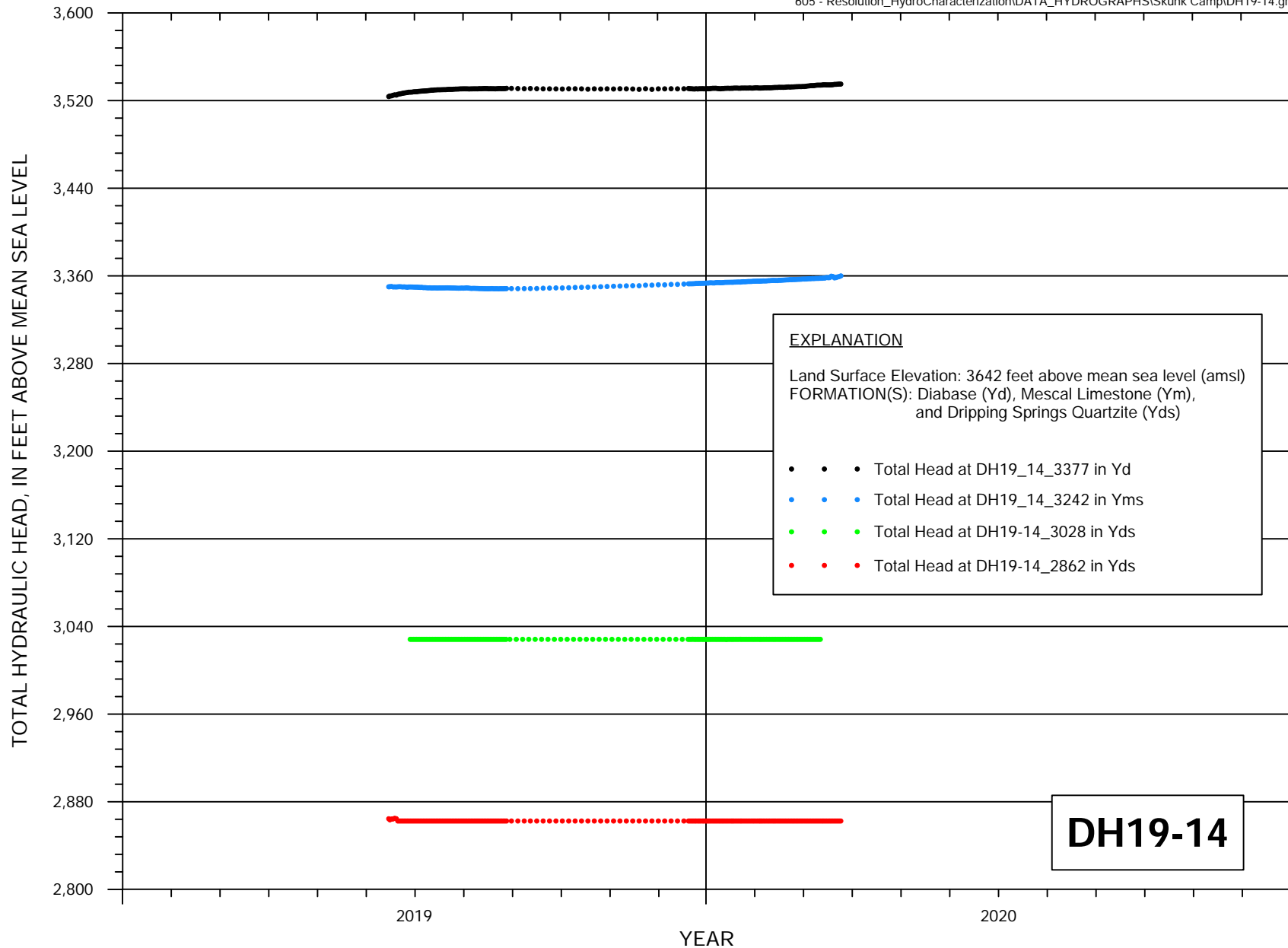
**FIGURE B-14. HYDROGRAPH OF WATER LEVEL
AT HYDROLOGIC TEST WELL RC19-8D**



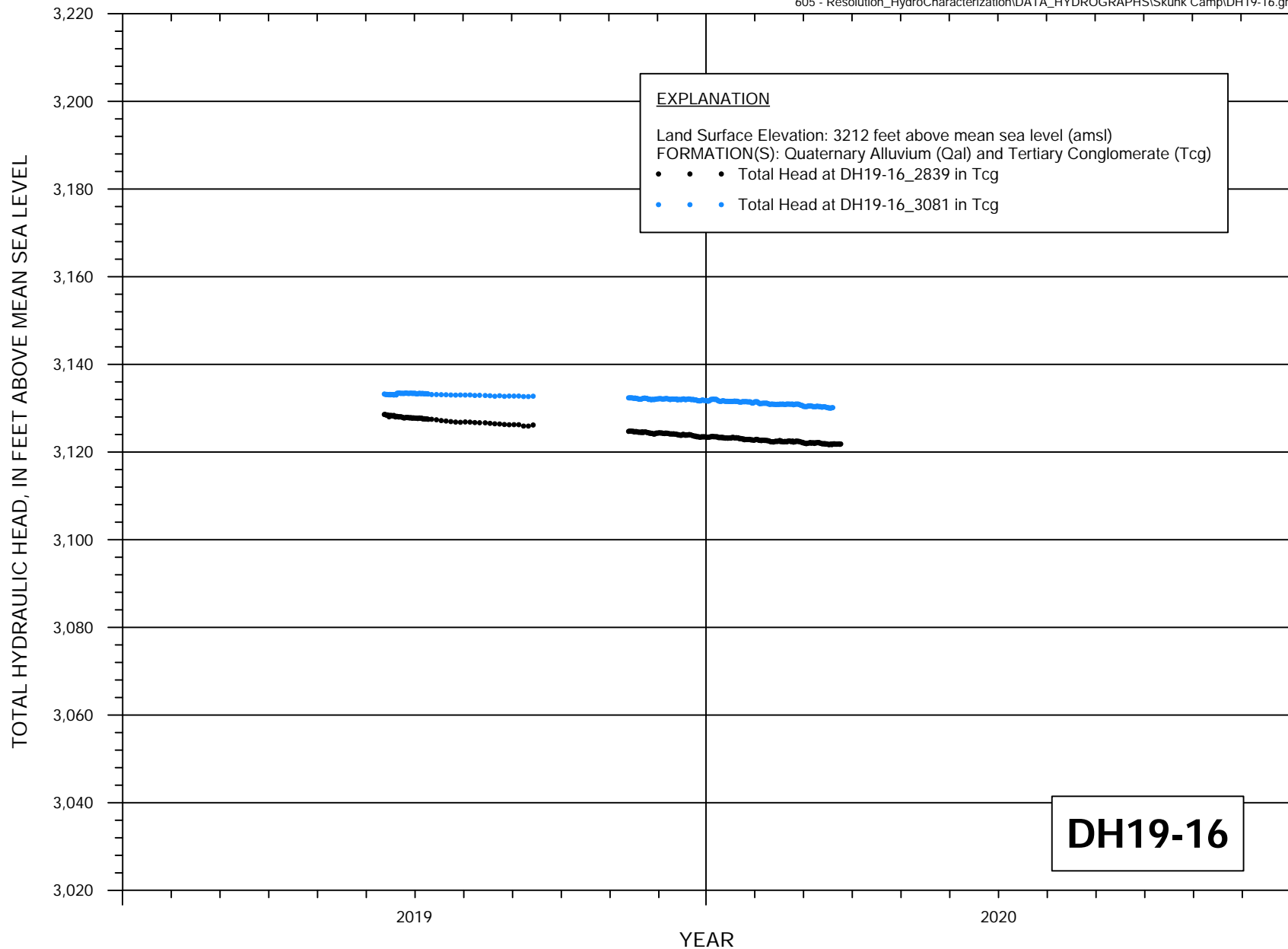
**FIGURE B-16. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
AT HYDROLOGIC TEST WELL DH18-5**



**FIGURE B-17. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
AT HYDROLOGIC TEST WELL DH18-8A**



**FIGURE B-18. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
 AT HYDROLOGIC TEST WELL DH19-14**



**FIGURE B-19. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
AT HYDROLOGIC TEST WELL DH19-16**

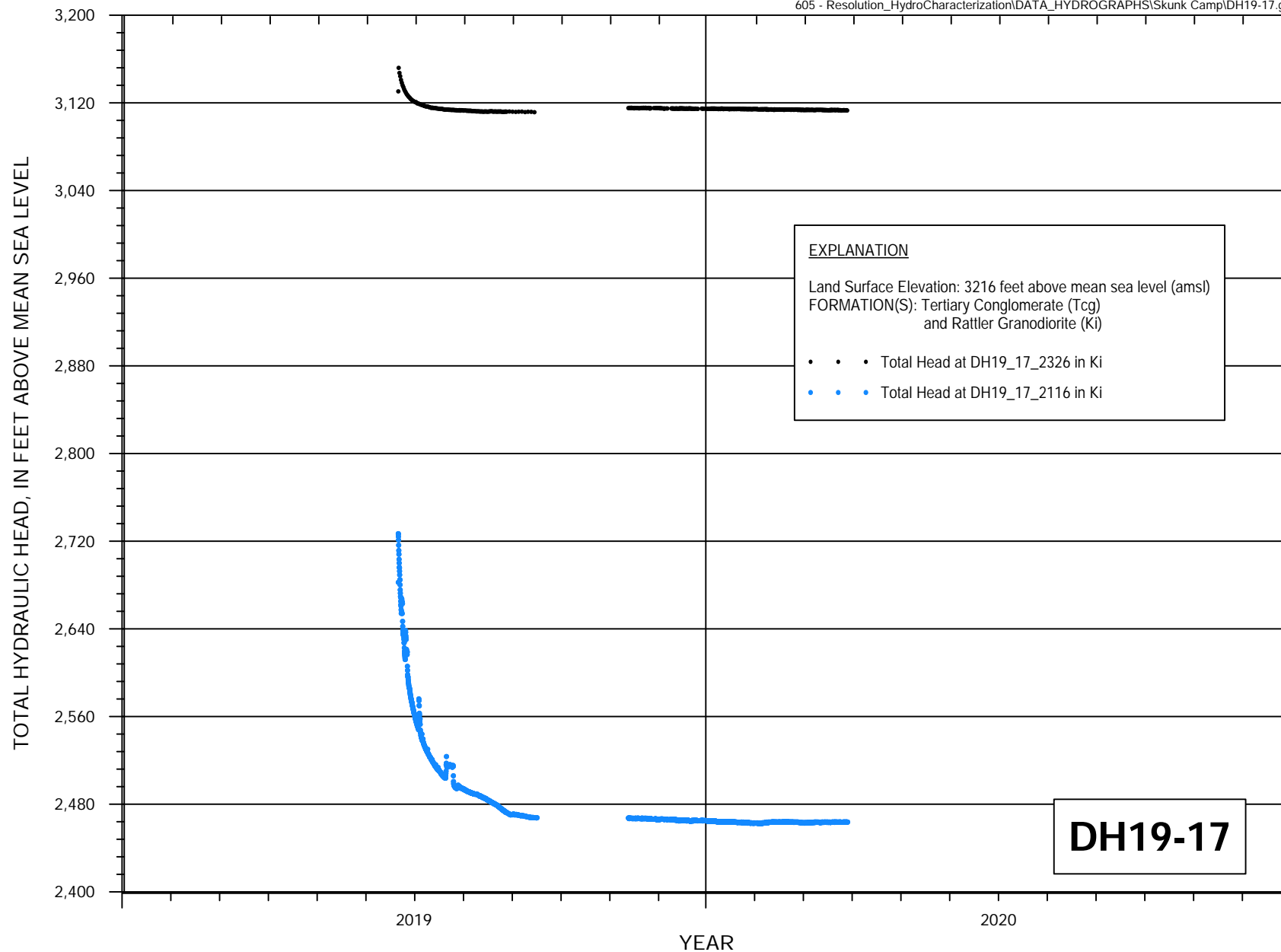
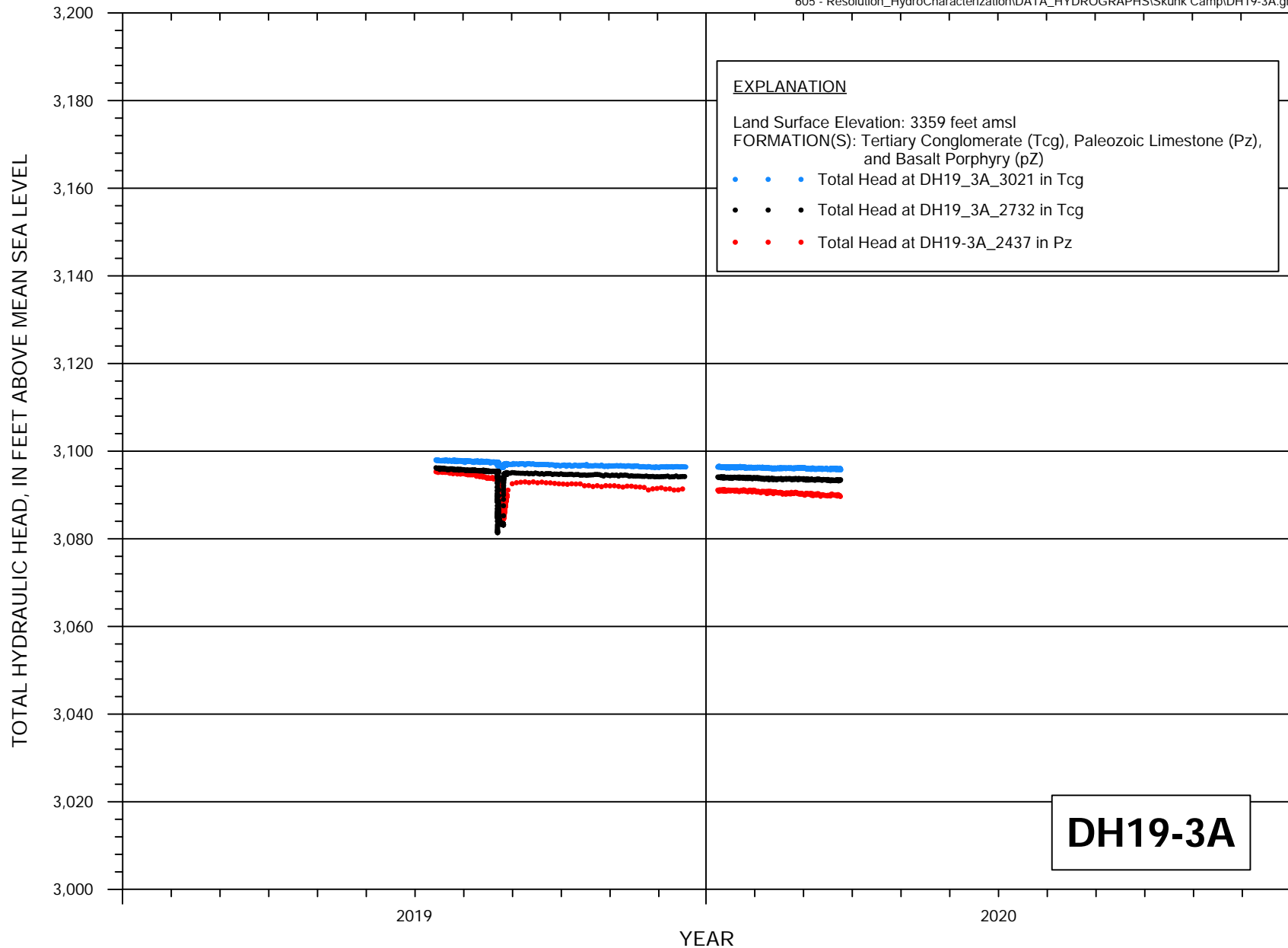
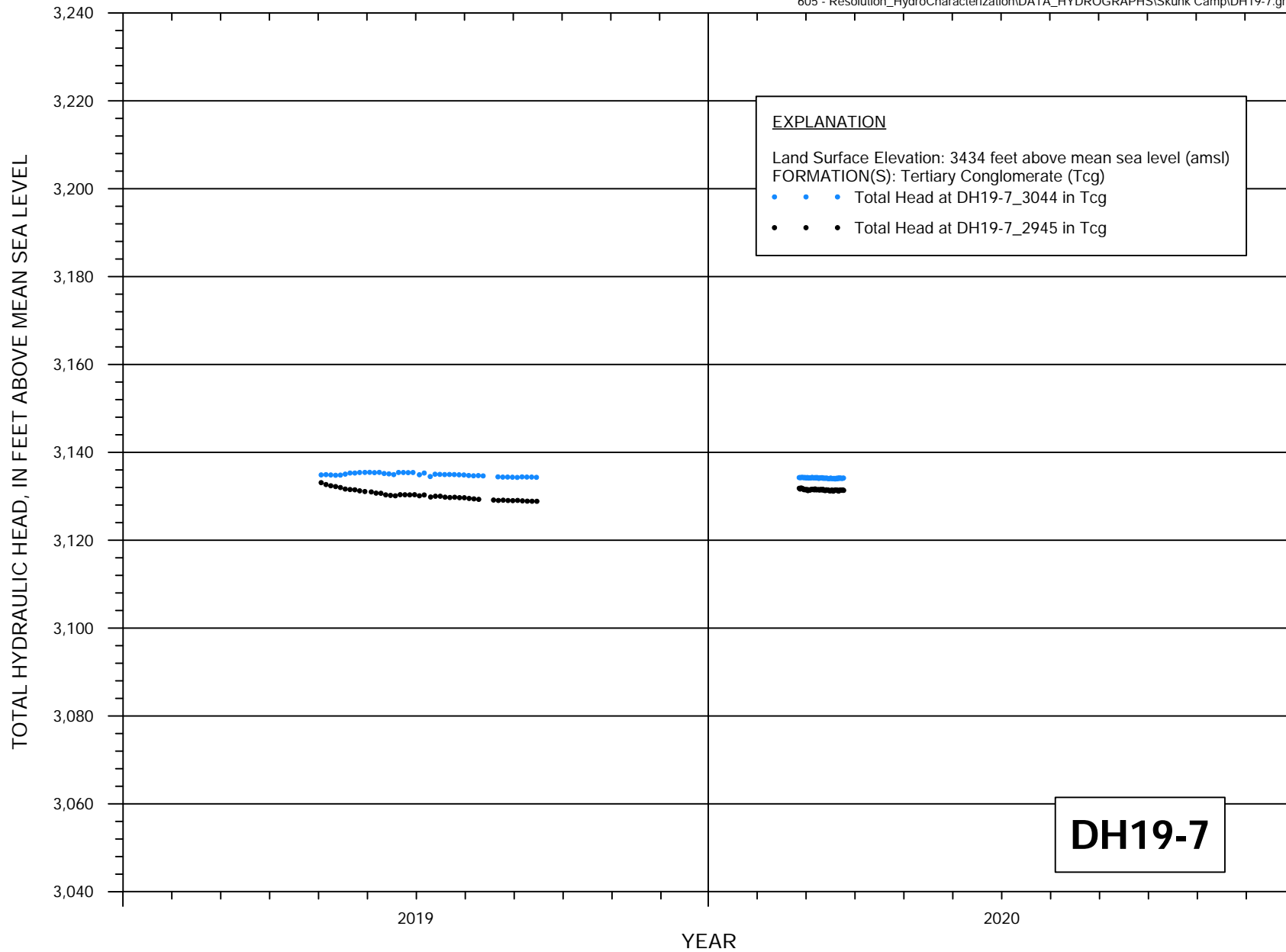


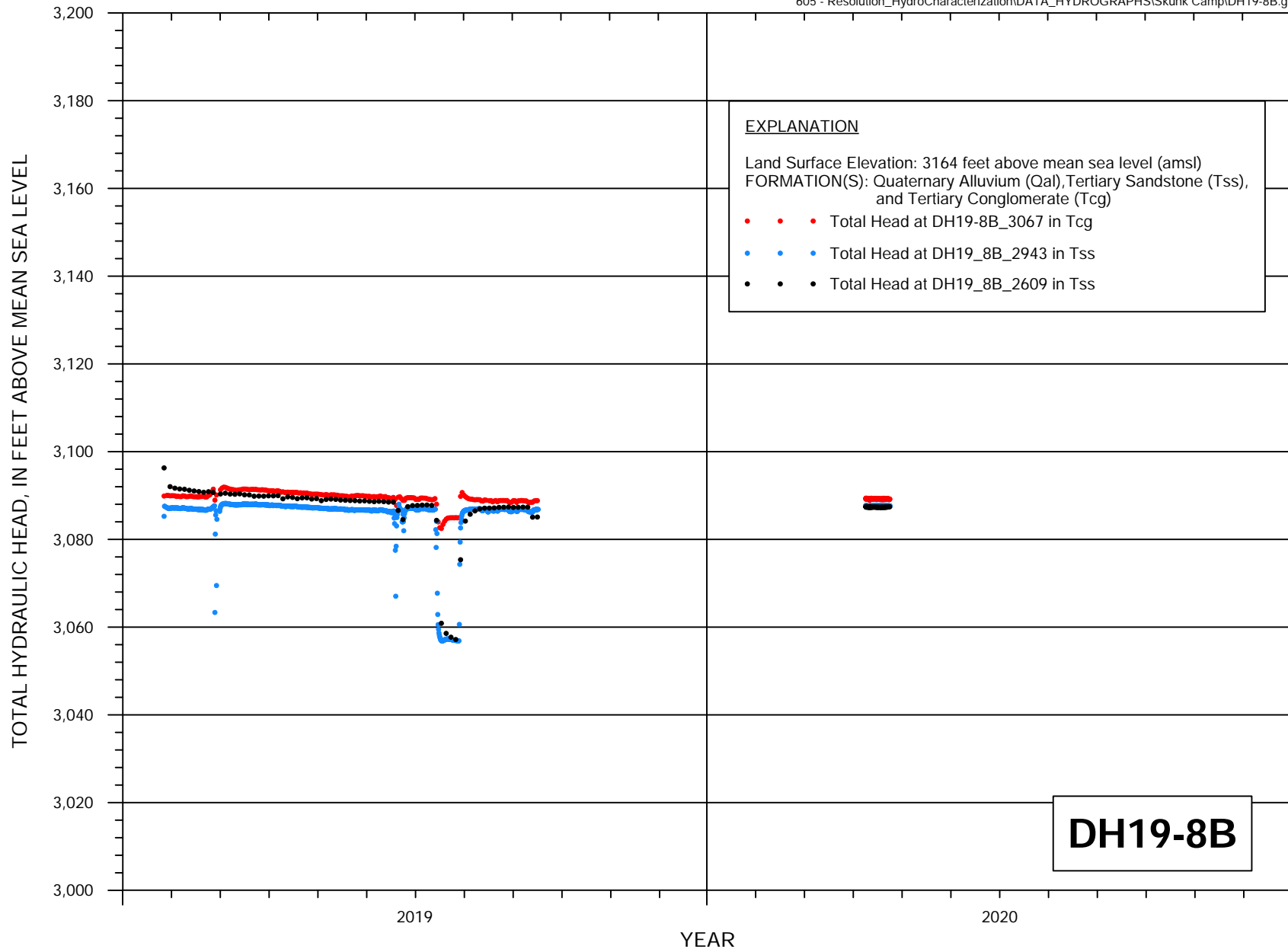
FIGURE B-20. HYDROGRAPH OF TOTAL HYDRAULIC HEAD FOR GROUTED PIEZOMETERS AT HYDROLOGIC TEST WELL DH19-17



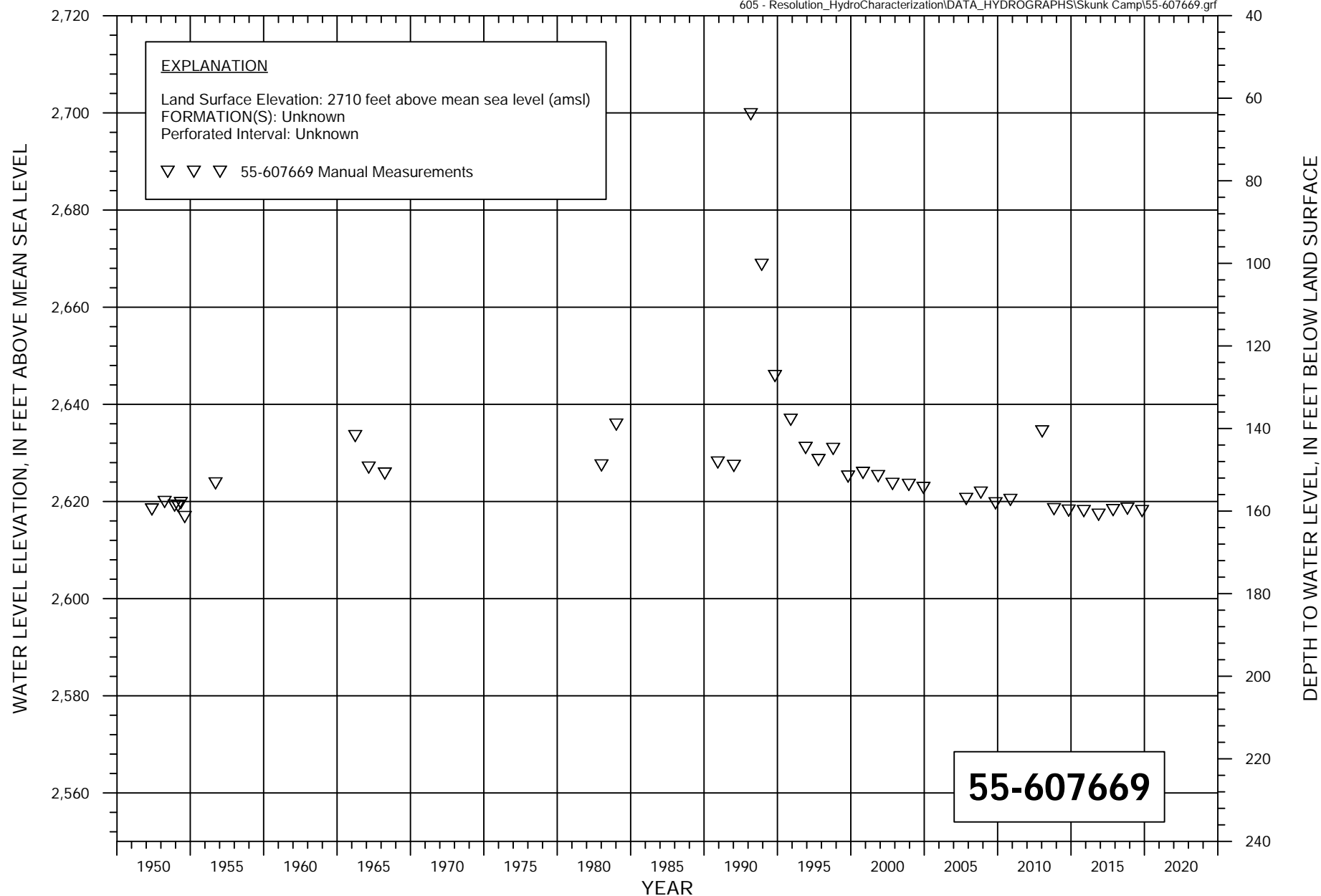
**FIGURE B-21. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
AT HYDROLOGIC TEST WELL DH19-3A**



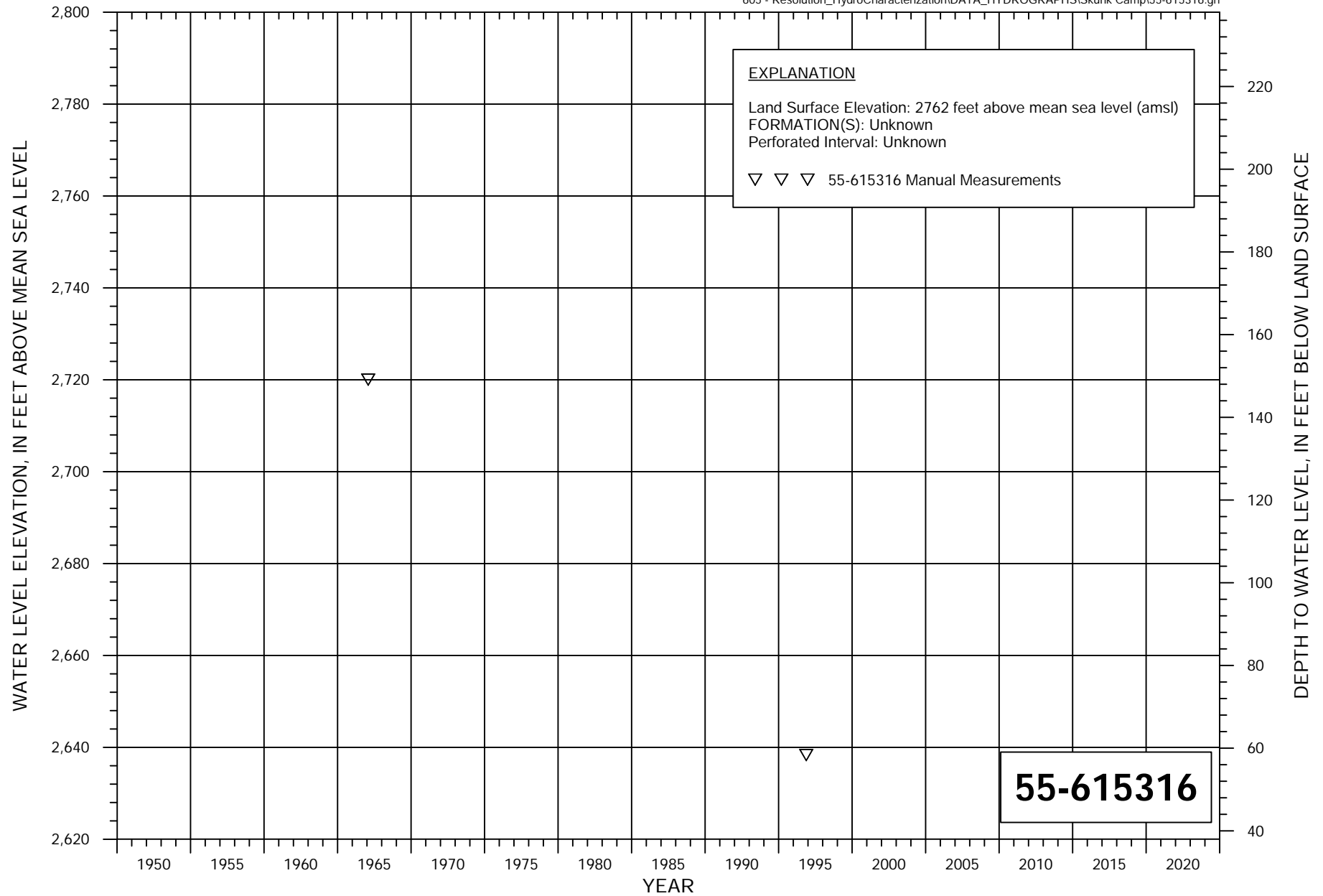
**FIGURE B-22. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
 AT HYDROLOGIC TEST WELL DH19-7**



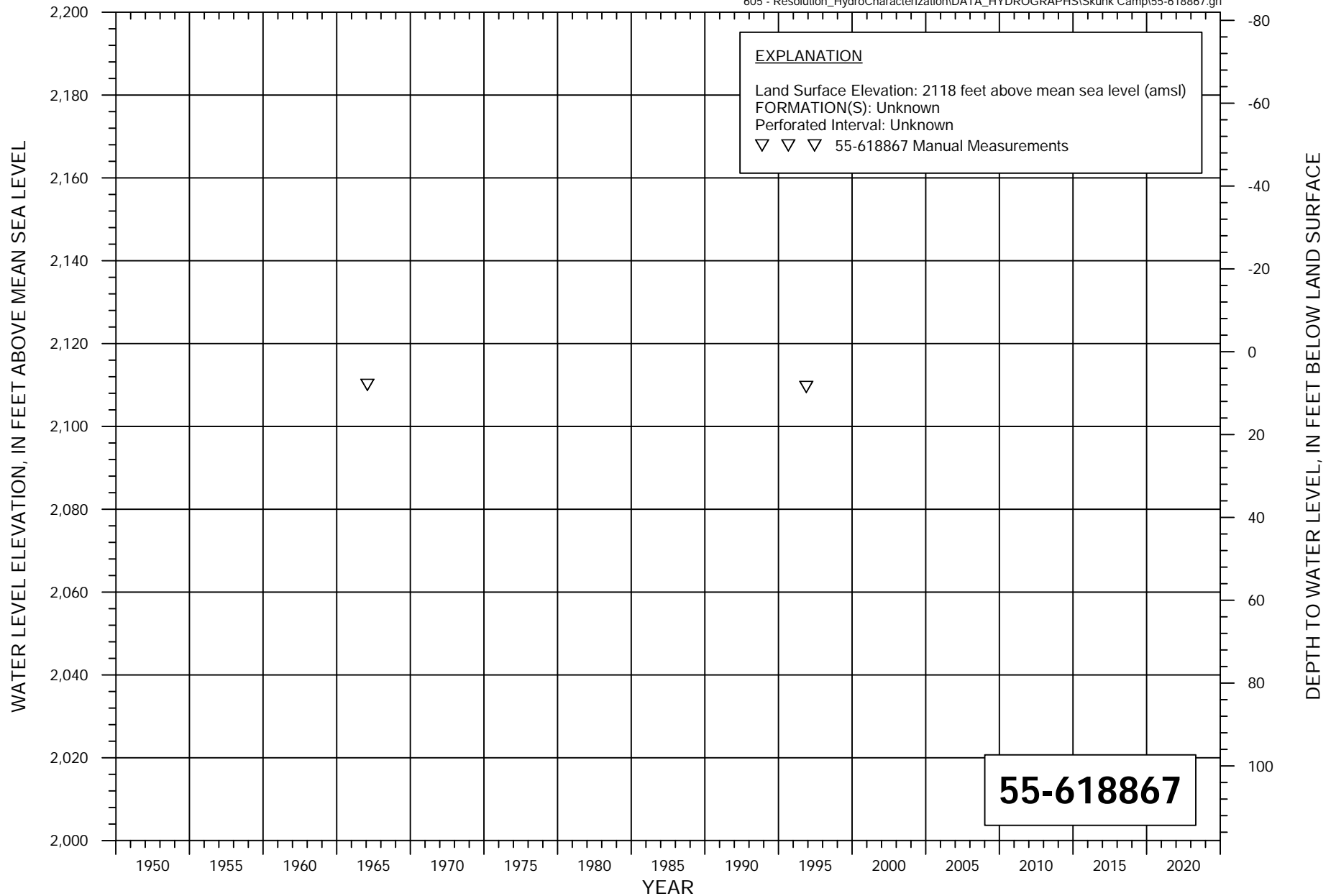
**FIGURE B-23. HYDROGRAPH OF TOTAL HYDRAULIC HEAD
 AT HYDROLOGIC TEST WELL DH19-8B**



**FIGURE B-24. HYDROGRAPH OF WATER LEVEL
AT WELL 55-607669**



**FIGURE B-25. HYDROGRAPH OF WATER LEVEL
AT WELL 55-615316**



**FIGURE B-26. HYDROGRAPH OF WATER LEVEL
AT WELL 55-618867**

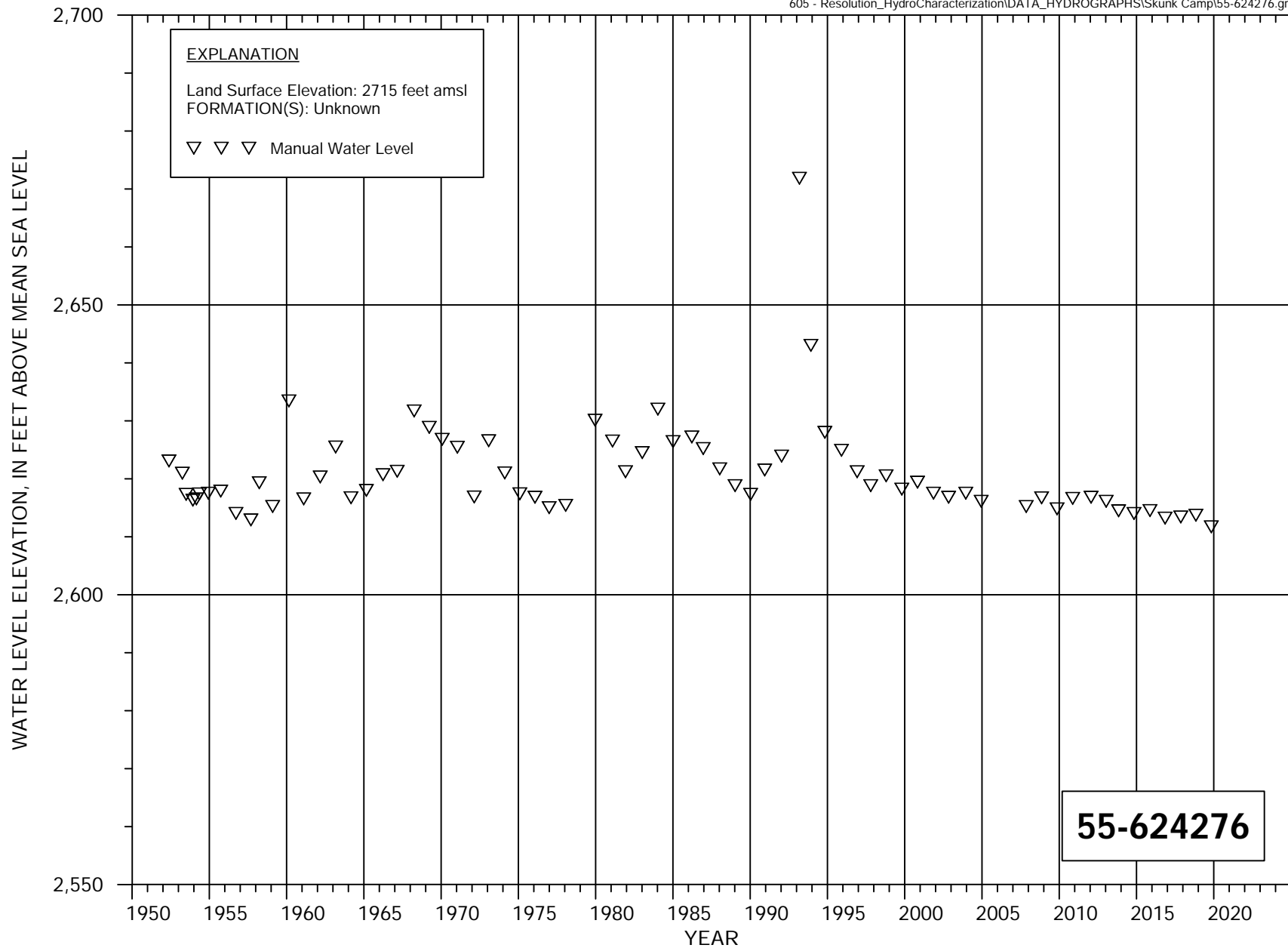
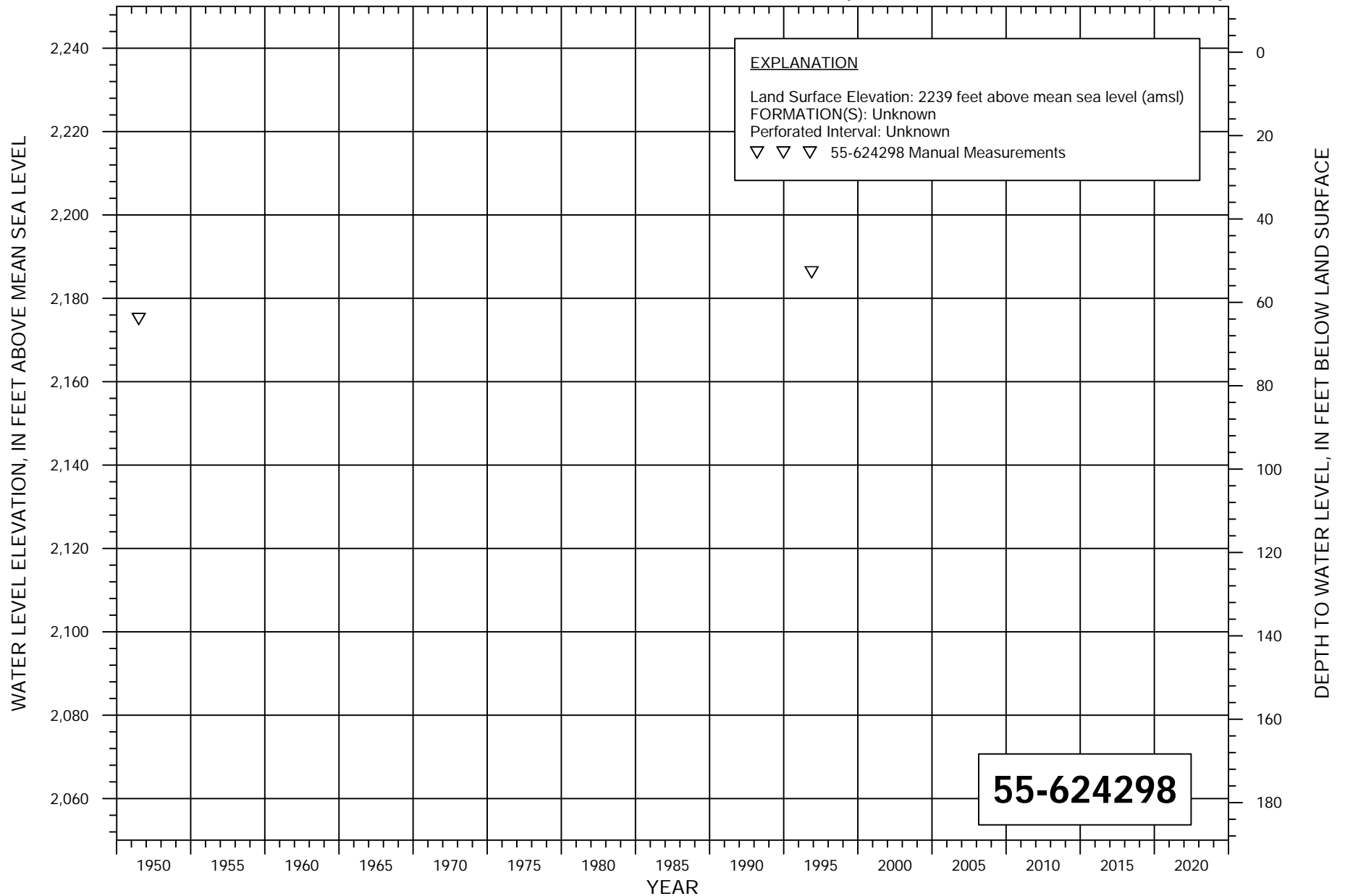


FIGURE B-27. HYDROGRAPH OF WATER LEVEL
AT WELL 55-624276



**FIGURE B-28. HYDROGRAPH OF WATER LEVEL
AT WELL 55-624298**

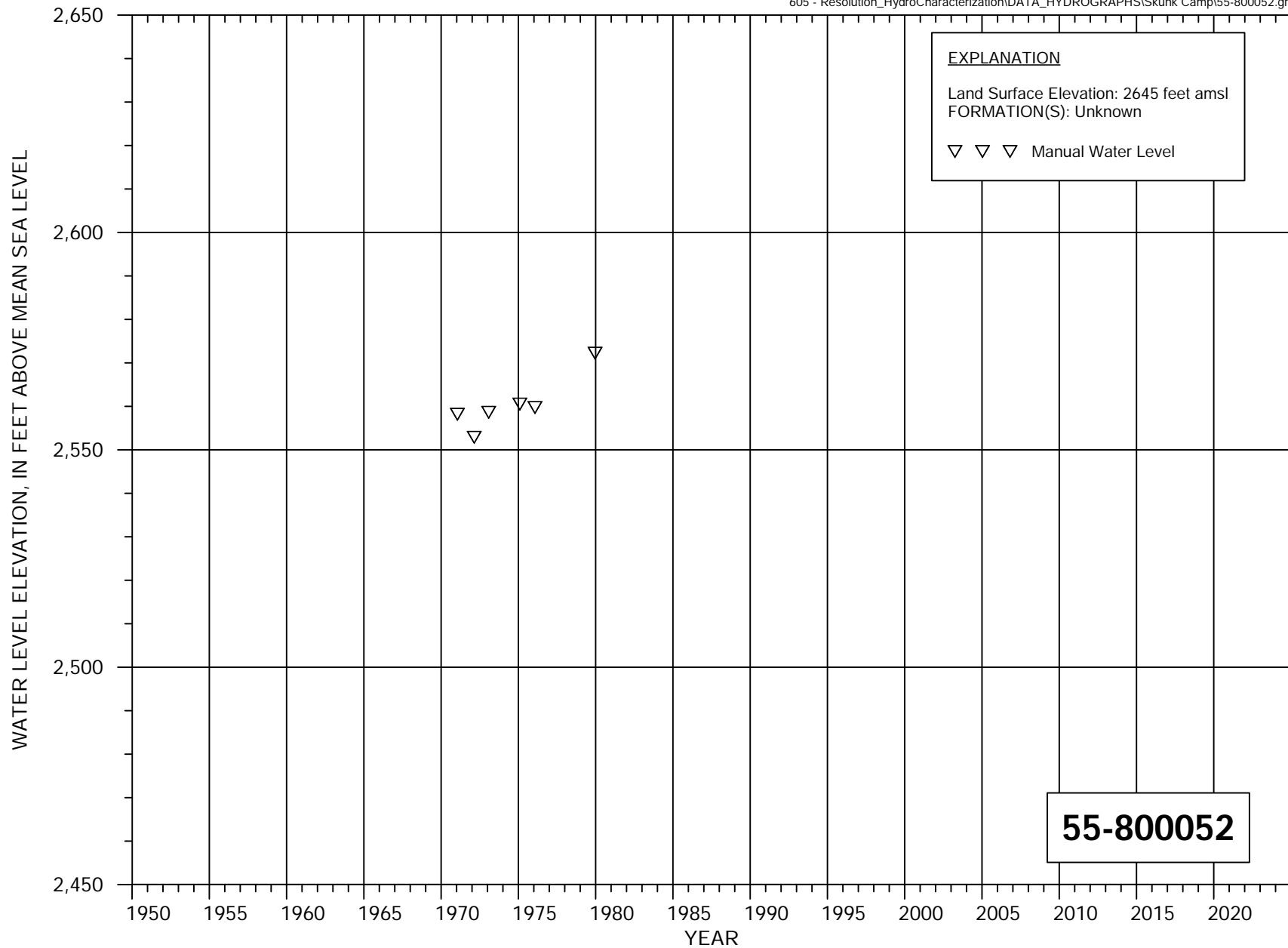


FIGURE B-29. HYDROGRAPH OF WATER LEVEL
AT WELL 55-800052

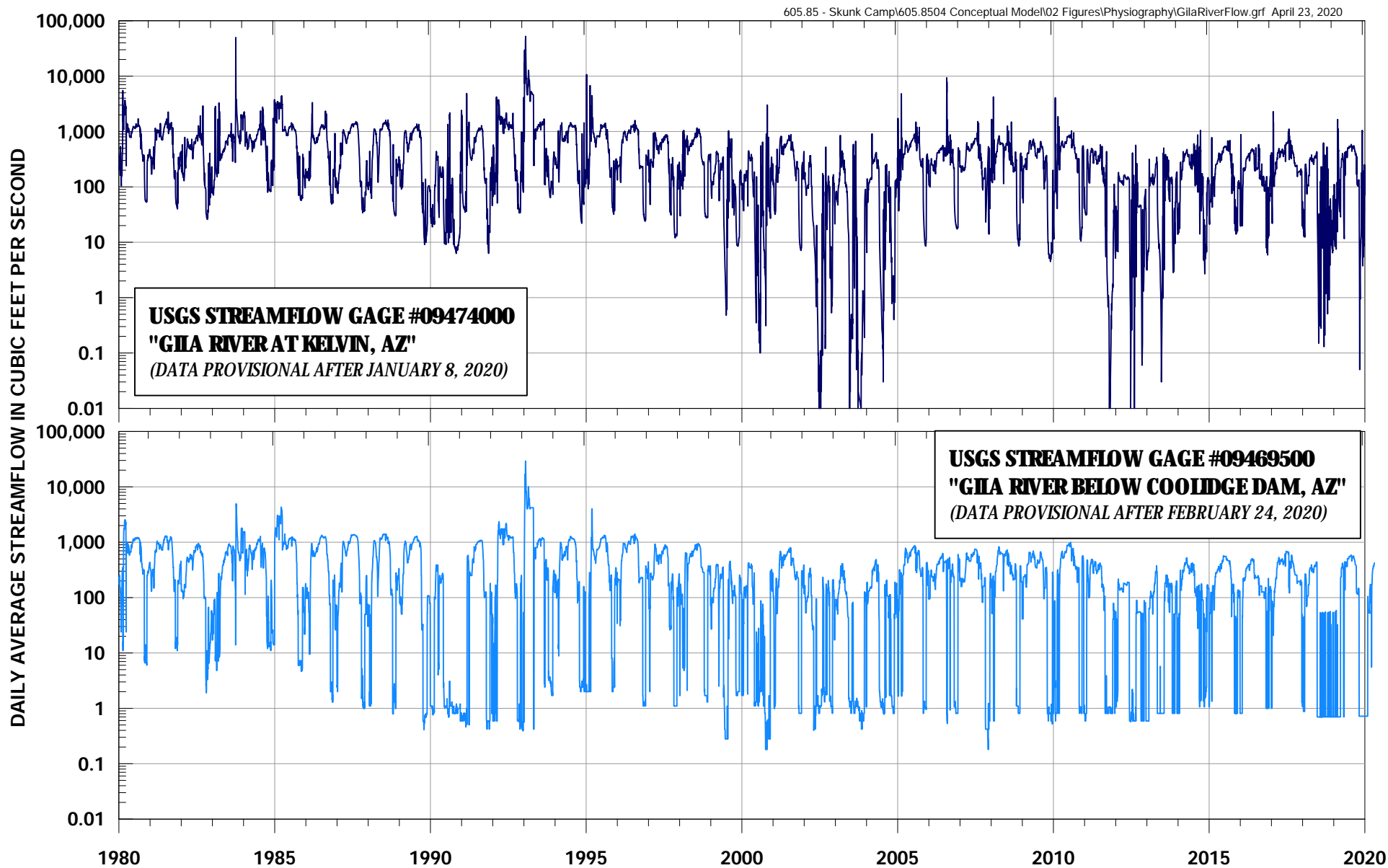


FIGURE C-1. DAILY AVERAGE STREAMFLOW FOR THE GILA RIVER AT KELVIN AND BELOW COOLIDGE DAM