

TECHNICAL MEMORANDUM

San Antonio Creek Valley Groundwater Basin Quarterly Groundwater Level Monitoring – Fourth Quarter 2023

To: Ms. Stephanie Bertoux, Executive Director, San Antonio Basin Groundwater

Sustainability Agency

From: Michael McAlpin, GSI Water Solutions, Inc.

Sydney Robertson, GSI Water Solutions, Inc. David O'Rourke, GSI Water Solutions, Inc.

Attachments: Tables:

Table 1. Fourth Quarter 2023 Groundwater Level Measurements – Depth to Water Table 2. Fourth Quarter 2023 Groundwater Level Measurements – Groundwater

Elevation

Figure:

Figure 1. Wells Included in the San Antonio Creek Valley Groundwater Basin

Groundwater Monitoring Network

Date: December 19, 2023

Introduction

On behalf of the San Antonio Basin Groundwater Sustainability Agency (SABGSA), GSI Water Solutions, Inc. (GSI) completed the fourth quarter 2023 (4Q2023) San Antonio Creek Valley Groundwater Basin (Basin) groundwater level monitoring event (monitoring event) on December 12th and 13th, 2023. Prior to each quarterly monitoring event, GSI contacts well owners/property managers to coordinate access to the wells and request that wells be shut off for at least 8 hours before the monitoring event so that a static measurement can be obtained. Well owners/property managers were notified on November 28, 2023.

GSI was able to successfully measure depth to water in all but one well with secured access agreements during the December 12th and 13th, 2023 monitoring event. The attached tables provide the status of current well access agreements, and the attached figure shows the well locations. The following paragraphs and attached tables summarize the results of the 4Q2023 monitoring event.

4Q2023 Water Level Monitoring Event Summary

The attached tables summarize the results of the Basin 4Q2023 monitoring event for the wells in the Basin Groundwater Level Monitoring Network (Monitoring Network). The tables include the status of current well access agreements, depth to water measurements, and calculated groundwater elevations for all wells that were able to be accessed during the monitoring event. Wells identified as Representative Monitoring Sites (RMS) in the Basin's Groundwater Sustainability Plan (GSP) are identified in Table 2 and denoted with the respective RMS's sustainable management criteria (i.e., minimum threshold and measurable objective). The following is a summary of observations from the 4Q2023 monitoring event:

- The only wells with an active well access agreement that did not have a groundwater level measurement collected during the 4Q2023 monitoring event were 2M1 and White Hawk 4.
 - No water level measurement was collected from well 2M1 due to the risk of the sounder becoming stuck in the well. Groundwater level monitoring at well 2M1 is planned to resume pending the installation of a sounding tube.
 - The SABGSA received a Well Verification Request for a proposed replacement water well in July 2023. The SABGSA verified the proposed well was consistent with the SABGSA's Well Verification Policy. The well to be replaced was determined to be White Hawk 4. During the 4Q2023 monitoring event, White Hawk 4 was observed being destroyed as required by the Well Verification Policy, and therefore no water level measurement was able to be collected.
- The continuous data recording pressure transducer (transducer) that is located in well 16C4 did not have data downloaded during the 4Q2023 monitoring event due to a malfunctioning cable. 16C4 water level data collected by the transducer since the 3Q2023 event will be downloaded during the 1Q2024 event.
- The water level reading device could not be retrieved from well 2R1 after the recording of a water level measurement. The device became caught during retrieval. The well owner/property manager has been notified and a coordinated effort to retrieve the device has been scheduled.
- The 13C1 wellhead had been removed prior to the 3Q and 4Q2023 monitoring events. Consequently, depth to water was measured from a different reference point elevation (RPE; 777.45 feet NAVD88) than previously reported.
- Well 4 is a new irrigation well that was added to the SABGSA monitoring network in 4Q2023. The well is located north of U.S. Highway 101 in the central uplands of the Basin. Well 4 was proposed as a replacement well for Mesa Vineyard in the Basin Monitoring Network. Mesa Vineyard is not equipped with a sounding tube, increasing the likelihood of a water level reading device becoming caught in the well. Mesa Vineyard and Well 4 are completed to similar depths and are constructed with multiple screened intervals. Water levels from the two wells will continue to be evaluated to determine if water levels in Well 4 are representative of water levels in Mesa Vineyard. Mesa Vineyard has a period of record of reported water levels from November 2019 to present.
- The air pressure measured at Stephen's Well during the 3Q and 4Q2023 events has been below historical levels. The 3Q and 4Q2023 calculated water levels are suspected to be pumping water levels. No receipt confirmation was received from the well owner/property manager in response to the 3Q and 4Q2023 monitoring event notifications.

Recommendations

- Consider the installation of a sounding tube in well 2M1.
- Perform well maintenance on wells 2N1 and Mesa Vineyard to clear rusty material. Well 2N1 and Mesa Vineyard have historically contained rusty material. Consequently, the sounder becomes coated when lowered into the well, occasionally blocking the sensor and preventing an accurate water level measurement.
- Continue public outreach to Basin stakeholders to discuss participation in the Basin's Monitoring Network.
- Consider the purchase and installation of additional transducers.
- Perform an RPE Survey for the wells included in the Basin Monitoring Network in accordance with the Sustainable Groundwater Management Act (SGMA) well elevation accuracy requirements.
- Perform well video surveys of wells included in the Basin Monitoring Network with outstanding well construction information (total depth and screened intervals).

- Purchase and replace transducer cable in well 16C4. This work and associated cost is included in the approved 2024 Quarterly Monitoring and Reporting scope of work and budget.
- Secure access agreement to the White Hawk 4 replacement well.
- Communicate with Stephen's Well owner/property manager and confirm contact information for monitoring even notification emails.

Table 1. Fourth Quarter 2023 Groundwater Level Measurements – Depth to Water

Table 1. Fourth Quarter 20	023 Groundwater Le	vei weasuremen	ts – Depth to Water			1	1		_	1	1		1					
														DTW on	DTW on			
							DTW on	3/15/23	6/20/2023	DTW on	DTW on							
			Water Level		Total		6/22/2021	9/14/2021	12/8/2021	3/10/2022	6/21/2022	9/15/2022	12/14/2022	3/16/23	6/21/2023	9/12/23	12/12/23	
			Measurement		Depth	Aquifer of	and	and	and	and	and							
State Well Number	Site Name	Well Type	Frequency/Type	Area	(feet bgs)	Completion	6/23/2021	9/15/2021	12/9/2021	3/11/2022	6/22/2022	9/16/2022	12/15/2022	3/23/23	6/28/2023	9/13/23	12/13/23	Notes on 12/12/23 amd 12/13/23
		Monitoring	Continuous/Transducer	West San Antonio Basin	90	Careaga Sand	73.40	73.55	73.68	73.79	73.93	74.07	74.20	74.43	74.34	74.06	73.86	, , , , , , , , , , , , , , , , , , , ,
			· ·			•	44.75	45.37	45.69	45.85	46.19	46.98	47.33		44.82	45.39	46.25	+
		Monitoring	Continuous/Transducer	West San Antonio Basin	65	Careaga Sand								46.37				<u> </u>
		Monitoring	Continuous/Transducer	West San Antonio Basin	90	Paso Robles Formation	62.06	63.68	63.25	62.89	64.50	66.88	65.72	64.18	62.18	62.31	61.81	
008N034W23H001S	SAHG	Monitoring	Continuous/Transducer	West San Antonio Basin	75	Paso Robles Formation	43.41	42.85	42.72	43.12	41.42	41.71	40.80	27.74	27.99	30.60	33.22	
008N033W22G001S	SALS	Monitoring	Continuous/Transducer	Central San Antonio Basin	70	Paso Robles Formation	39.04	38.73	39.73	39.50	39.44	39.34	39.69	31.15	29.29	28.64	29.83	
008N032W29L004S	SALA	Monitoring	Continuous/Transducer	Central San Antonio Basin	90	Paso Robles Formation	47.54	48.13	48.79	48.95	49.25	49.85	50.46	27.96	26.79	32.32	36.12	
		Monitoring	Continuous/Transducer	West San Antonio Basin	690	Careaga Sand	47.81	49.61	46.27	46.25	51.05	54.90	47.50		47.90	53.74	48.68	
		, ,						76.58			81.30			ļ	77.38		73.10	
			Quarterly/Discrete	West San Antonio Basin	540	Paso Robles Formation	81.41		75.51	78.76		83.33	72.58			79.39		<u> </u>
		Monitoring	Quarterly/Discrete	West San Antonio Basin	350	Paso Robles Formation	119.19	113.90	99.00	102.25	119.95	122.83	99.33		110.41	117.35	99.95	
008N033W19K005S	SACR 4	Monitoring	Quarterly/Discrete	West San Antonio Basin	220	Paso Robles Formation	96.07	95.93	94.72	94.07	95.70	97.73	96.15		90.53	91.87	92.38	
008N033W19K006S	SACR 5	Monitoring	Quarterly/Discrete	West San Antonio Basin	110	Paso Robles Formation	99.75	100.49	100.30	99.68	99.98	100.47	100.87	95.86	91.91	94.34	95.62	
008N032W19M001S	SACC 1	Monitoring	Continuous/Transducer	Central San Antonio Basin	980	Paso Robles Formation	227.45	237.35	229.72	235.35	236.20	241.70	220.97	214.99	224.04	232.96	222.72	
		Monitoring	Quarterly/Discrete	Central San Antonio Basin	720	Paso Robles Formation	217.18	219.00	215.05	217.05	217.45	222.83	215.17	210.04	212.87	219.52	214.50	
		Monitoring	**		530		220.53	224.73	220.42	219.40	220.10	223.35	213.49	208.65	213.21	219.74	213.49	
			Quarterly/Discrete	Central San Antonio Basin		Paso Robles Formation		1				1					1	
		Monitoring	Quarterly/Discrete	Central San Antonio Basin	325	Paso Robles Formation	171.01	173.62	172.79	173.70	175.70	177.90	175.98	172.58	174.52	177.45	176.87	
008N032W19M005S		Monitoring	Quarterly/Discrete	Central San Antonio Basin	120	Paso Robles Formation	107.25	107.20	107.13	107.10	107.05	107.30	107.20	107.01	106.94	106.50	105.82	
008N034W02M001S	2M1	Irrigation	Quarterly/Discrete	West San Antonio Basin	750	Paso Robles Formation	152.50	154.13	152.60	154.55							-	Temporarily discontinued due to risk of stuck sounder
	White Hawk 1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	560	Careaga Sand	123.12	124.03	124.03	112.73	125.50	126.50	125.10	123.96	123.96	124.58	123.29	
		-	,			J												Proposed Original Well in July 2023 Well Verification Request.
																		Well observed being destroyed as required by the SABGSA
000123114710046	14/12/11/14		0 1 1/0: 1		000		00.00	00.24	00.05	07.00	400 55	404.00	00.50	00.00	00.77	00.07		
008N32W17N001S		_	Quarterly/Discrete	Central San Antonio Basin	820	Careaga Sand	98.80	99.24	98.85	97.90	100.55	101.20	98.50	98.00	98.77	98.97		Well Verification Policy.
	Mesa Vineyard	Irrigation	Quarterly/Discrete	Central San Antonio Basin		Careaga Sand	216.50	217.10	218.08	218.80	219.50	220.50	216.10	215.85		219.17	216.91	Rusty material in well
008N033W02N001S	2N1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	980	Careaga Sand	226.50		224.65	227.10	226.20	228.00	225.50		224.23	228.06	224.33	Rusty material in well
008N033W02R001S	2R1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	370	Careaga Sand	192.82	185.22	119.42	118.75	173.55	120.50	120.45	120.30	120.61	120.94	121.02	
		•	Quarterly/Discrete	Central San Antonio Basin	1,000	Careaga Sand		-									122.50	
		•	Quarterly/Discrete	Central San Antonio Basin	490	Careaga Sand	25.15	27.82	27.67	27.09	65.90	68.00	28.61	25.59	27.53	30.39	29.48	
		•		 		•		1				1						
		Irrigation	Quarterly/Discrete	Central San Antonio Basin	349	Careaga Sand	97.71	94.80	95.05	96.10	96.59	98.10	96.11	94.82	98.01	98.79	97.63	4
		Monitoring	Quarterly/Discrete	Central San Antonio Basin	669	Careaga Sand	215.82	216.28	216.65	216.76	217.24	217.90	218.05	218.24	218.29	218.97	219.15	
008N034W14L001S	14L1	Monitoring	Quarterly/Discrete	West San Antonio Basin	593	Careaga Sand	70.93	70.82	68.99	68.12	71.18	73.70	69.95	68.24	70.85	74.84	72.16	
009N034W34P001S	34P1	Monitoring	Quarterly/Discrete	West San Antonio Basin	223	Careaga Sand	68.86	68.60	68.55	72.66	71.85	70.80	70.15	66.50		67.65	66.19	
008N034W17Q001S	17Q1	Monitoring	Quarterly/Discrete	West San Antonio Basin	48	Careaga Sand	13.85		14.78	14.80	15.40			13.31	13.72	14.80	15.21	
		Monitoring	Quarterly/Discrete	West San Antonio Basin	271	Careaga Sand	35.64	36.22	36.79	36.93	37.80	38.75	38.83	37.70	37.40	38.62	38.88	
		, ,	**	ł	60				6.98		7.13	7.30	7.40		7.30			
			Quarterly/Discrete	West San Antonio Basin		Careaga Sand				6.98		1		7.38		7.31	7.31	
		Monitoring	Quarterly/Discrete	West San Antonio Basin	89	Careaga Sand	21.40	21.76	22.03	22.20	22.28	22.35	22.38	19.72	19.44	20.26	20.67	4
008N034W16C002S	16C2	Monitoring	Continuous/Transducer	West San Antonio Basin	169	Careaga Sand	75.36	76.15	86.75	87.76	74.72	94.03	87.72	92.73	82.20	91.43	84.44	
008N034W16C004S	16C4	Monitoring	Continuous/Transducer	West San Antonio Basin	560	Careaga Sand	67.24	67.80	73.94	74.66	87.21	79.63	75.30	78.30	74.79	78.03	73.70	
008N034W17H001S	17H1	Monitoring	Quarterly/Discrete	West San Antonio Basin	61	Careaga Sand	15.68	16.54	17.20	16.97	17.81	18.81	18.90	13.24	13.94	15.65	16.43	
		•	Quarterly/Discrete	West San Antonio Basin	58	Careaga Sand	30.33	30.92	38.50	40.34	43.83	46.30	45.47	45.09	38.45	43.17	41.39	
		Monitoring	Quarterly/Discrete	West San Antonio Basin	56	Careaga Sand	48.84	49.00	49.31	49.86	50.52	51.17	51.85	52.36	52.47	52.40	52.65	
			•			<u> </u>		1		+		1		1				Malliand annual and DDF
008N033W13C001S	13C1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	1,070	Careaga Sand	195.00	-	188.10	188.90	190.20	188.00	187.30		188.40	186.08	185.94	Wellhead removed, new RPE
																		Measured with airline, suspected pumping during
008N033W07	Stephen's Well	Irrigation	Quarterly/Discrete	West San Antonio Basin	590	Careaga Sand		332.95	338.73	341.04	339.88	343.35	339.88		342.19	381.46	379.15	measurement
008N033W22K003S	22K3	Irrigation	Quarterly/Discrete	Central San Antonio Basin	250	Paso Robles Formation		-							79.65	82.59	79.45	
008N033W13Q001S		Irrigation		Central San Antonio Basin	295	Paso Robles Formation												
		Monitoring		Central San Antonio Basin	895	Paso Robles Formation												
				East San Antonio Basin	700									-				
		Irrigation				Careaga Sand		ļ		-		ļ	-					
		Unknown		East San Antonio Basin		Careaga Sand												
008N031W22N001S	22N1	Unknown		East San Antonio Basin	175	Paso Robles Formation												
008N031W22M001S	22M1	Unknown		East San Antonio Basin		Careaga Sand												
008N034W24E001S	24 E1	Monitoring	==	West San Antonio Basin	580	Careaga Sand												
		Irrigation		West San Antonio Basin		Paso Robles Formation												
	+			Central San Antonio Basin		1 aso nobies i orination												
		Unknown						1										
	1	Unknown		Central San Antonio Basin												-		
	HWY 101 CATTLE	Unknown		East San Antonio Basin														
008N032W27P003S	GUZMAN 2	Unknown		East San Antonio Basin														
008N032W30E005S	30E5	Unknown		Central San Antonio Basin	1,001	Paso Robles Formation												
		Unknown		Central San Antonio Basin	100	Paso Robles Formation												
	+							 								ļ		
		Unknown		East San Antonio Basin	524	Paso Robles Formation												
008N034W36R		Unknown		West San Antonio Basin	284	Careaga Sand										-		
009N034W27L001S	27L1	Unknown		West San Antonio Basin	405	Careaga Sand										-		Well Destroyed March 2021

Notes:	

Green highlighted cells indicate well access agreement has been acquired Yellow highlighted cells indicate well access agreement is pending Red highlighted cells indicate well access denied Gray highlighted cells indicate well access not applicable bgs = below ground surface

DTW = Depth to Water (feet below reference point elevation)

-- = unknown or not applicable

Table 2. Fourth Quarter 2023 Groundwater Level Measurements – Groundwater Elevation

Tuble 2: Tourth Quarter			ients Groundwater Lievath					1						$\overline{}$					1	1
												1 '			'	GWE on	GWE on			
									GWE on	GWE on	GWE on	GWE on	GWE on	GWE on	GWE on	3/15/23	6/20/2023	GWE on	GWE on	
			Makaalaaal		T-4-1		N AT	140												
			Water Level		Total		MT	MO	6/22/2021	9/14/2021	12/8/2021	3/10/2022	6/21/2022	9/15/2022	12/14/2022	3/16/23	6/21/2023	9/12/23	12/12/23	
			Measurement		Depth	Aguifer of	Elevation	Elevation	and	and	and	and	and	and	and	and	and	and	and	
					· ·	· ·														
State Well Number	Site Name	Well Type	Frequency/Type	Area	(feet NAVD88)	Completion	(feet NAVD88)	(feet NAVD88)	6/23/2021	9/15/2021	12/9/2021	3/11/2022	6/22/2022	9/16/2022	12/15/2022	3/23/23	6/28/2023	9/13/23	12/13/23	Notes on 12/12/23 and 12/13/23
009N034W34N002S	SAHC	Monitoring	Continuous/Transducer	West San Antonio Basin	363	Careaga Sand	358		381.94	381.79	381.66	381.55	381.41	381.27	381.14	380.91	381.00	381.28	381.48	
		ŭ			_	-														
008N034W21A002S	SASA	Monitoring	Continuous/Transducer	West San Antonio Basin	245	Careaga Sand			267.06	266.44	266.12	265.96	265.62	264.83	264.48	265.44	266.99	266.42	265.56	
008N034W14L002S	SAGR	Monitoring	Continuous/Transducer	West San Antonio Basin	240	Paso Robles Formation			267.49	265.87	266.30	266.66	265.05	262.67	263.83	265.37	267.37	267.24	267.74	
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008N034W23H001S	SAHG	Monitoring	Continuous/Transducer	West San Antonio Basin	246	Paso Robles Formation			280.20	280.76	280.89	280.49	282.19	281.90	282.81	295.87	295.62	293.01	290.39	
008N033W22G001S	SALS	Monitoring	Continuous/Transducer	Central San Antonio Basin	390	Paso Robles Formation	397		420.22	420.53	419.53	419.76	419.82	419.92	419.57	428.11	429.97	430.62	429.43	
							337													
008N032W29L004S	SALA	Monitoring	Continuous/Transducer	Central San Antonio Basin	506	Paso Robles Formation			548.83	548.24	547.58	547.42	547.12	546.52	545.91	568.41	569.58	564.05	560.25	
008N033W19K002S	SACR 1	Monitoring	Continuous/Transducer	West San Antonio Basin	-327	Careaga Sand	291		314.01	312.21	315.55	315.57	310.77	306.92	314.32		313.92	308.08	313.14	
		ŭ	· ·			+	231	=												
008N033W19K003S	SACR 2	Monitoring	Quarterly/Discrete	West San Antonio Basin	-177	Paso Robles Formation			280.41	285.24	286.31	283.06	280.52	278.49	289.24		284.44	282.43	288.72	
008N033W19K004S	SACR 3	Monitoring	Quarterly/Discrete	West San Antonio Basin	13	Paso Robles Formation	233		242.62	247.91	262.81	259.56	241.86	238.98	262.48		251.40	244.46	261.86	
		ŭ	**				233													
008N033W19K005S	SACR 4	Monitoring	Quarterly/Discrete	West San Antonio Basin	143	Paso Robles Formation			265.75	265.89	267.10	267.75	266.12	264.09	265.67		271.29	269.95	269.44	
008N033W19K006S	SACR 5	Monitoring	Quarterly/Discrete	West San Antonio Basin	252	Paso Robles Formation			265.49	264.75	264.94	265.56	265.26	264.77	264.37	269.38	273.33	270.90	269.62	
008N032W19M001S	SACC 1	Monitoring	Continuous/Transducer	Central San Antonio Basin	-394	Paso Robles Formation	348		357.59	347.69	355.32	349.69	348.84	343.34	364.07	370.05	361.00	352.08	362.32	
0000102210/10040025	SACC 2	Monitoring	Quarterly/Discrete	Control Can Antonio Basin	124	Dasa Bablas Formation			267.02	266.01	260.06	267.06	267.56	262.10	260.94	274.07	272.14	26E 40	270 E1	
008N032W19M002S	SACC 2	Monitoring	Quarterly/Discrete	Central San Antonio Basin	-134	Paso Robles Formation			367.83	366.01	369.96	367.96	367.56	362.18	369.84	374.97	372.14	365.49	370.51	
008N032W19M003S	SACC 3	Monitoring	Quarterly/Discrete	Central San Antonio Basin	56	Paso Robles Formation			364.52	360.32	364.63	365.65	364.95	361.70	371.56	376.40	371.84	365.31	371.56	
008N032W19M004S	SACC 4	-	**	Central San Antonio Basin	261				413.98		412.20	411.29	409.29	407.09	409.01	412.41	410.47	407.54	408.12	
		Monitoring	Quarterly/Discrete			Paso Robles Formation	+			411.37										
008N032W19M005S	SACC 5	Monitoring	Quarterly/Discrete	Central San Antonio Basin	466	Paso Robles Formation			478.83	478.88	478.95	478.98	479.03	478.78	478.88	479.07	479.14	479.58	480.26	
008N034W02M001S	2M1	Irrigation	·	West San Antonio Pasin	-331		244	286	267.51	265.88	267.41									Tomporarily discontinued due to rick of stuck sounder
0081903499021910015		Irrigation	Quarterly/Discrete	West San Antonio Basin	_	Paso Robles Formation	244	286				265.46								Temporarily discontinued due to risk of stuck sounder
	White Hawk 1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	241	Careaga Sand			679.24	678.33	678.33	689.63	676.86	675.86	677.26	678.40	678.40	677.78	679.07	
		0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		#						$\overline{}$									Dranged Original Well in July 2022 Well Verification
																				Proposed Original Well in July 2023 Well Verification
																				Request. Well observed being destroyed as required by the
000012214/17810046	M/hiko Uzzala 4	luuimatis :-	Overterly/Disease	Control Con Astaula Basi	20	Coron Cd			C02.07	C02.42	682.82	C02 77	C01 13	C0C 47	C02.47	C02 C7	C02.00	682.70		
008N32W17N001S	White Hawk 4	Irrigation	Quarterly/Discrete	Central San Antonio Basin	-39	Careaga Sand			682.87	682.43	682.82	683.77	681.12	680.47	683.17	683.67	682.90	682.70		SABGSA Well Verification Policy.
	Mesa Vineyard	Irrigation	Quarterly/Discrete	Central San Antonio Basin		Careaga Sand			590.29	589.69	588.71	587.99	587.29	586.29	590.69	590.94		587.62	589.88	Rusty material in well
		-	**			<u> </u>				1						550.5 .				
008N033W02N001S	2N1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	-153	Careaga Sand			600.75		602.60	600.15	601.05	599.25	601.75		603.02	599.19	602.92	Rusty material in well
008N033W02R001S	2R1	Irrigation	Quarterly/Discrete	Central San Antonio Basin	406	Careaga Sand			584.58	592.18	657.98	658.65	603.85	656.90	656.95	657.10	656.79	656.46	656.38	
000110001102110010			The state of the s			+			50 1.50	1			1	050.50	030.55	037.120		050.10		
	Well 4	Irrigation	Quarterly/Discrete	Central San Antonio Basin	1,000	Careaga Sand									, - ,		-		596.57	
008N033W10	4-Deer Field	Irrigation	Quarterly/Discrete	Central San Antonio Basin	149	Careaga Sand			614.21	611.54	611.69	612.27	573.46	571.36	610.75	613.77	611.83	608.97	609.88	
						-														
008N033W03L001S	4-Deer Highway	Irrigation	Quarterly/Discrete	Central San Antonio Basin	340	Careaga Sand			591.97	594.88	594.63	593.58	593.09	591.58	593.57	594.86	591.67	590.89	592.05	
	Schaff Well	Monitoring	Quarterly/Discrete	Central San Antonio Basin	-71	Careaga Sand			383.68	383.22	382.85	382.74	382.26	381.60	381.45	381.26	381.21	380.53	380.35	
		-	**			-	+													
008N034W14L001S	14L1	Monitoring	Quarterly/Discrete	West San Antonio Basin	-264	Careaga Sand			259.49	259.60	261.43	262.30	259.24	256.72	260.47	262.18	259.57	255.58	258.26	
009N034W34P001S	34P1	Monitoring	Quarterly/Discrete	West San Antonio Basin	230	Careaga Sand	361	386	386.10	386.36	386.41	382.30	383.11	384.16	384.81	388.46		387.31	388.77	
								1		1										
008N034W17Q001S	17Q1	Monitoring	Quarterly/Discrete	West San Antonio Basin	222	Careaga Sand			261.15		260.22	260.20	259.60			261.69	261.28	260.20	259.79	
008N034W21A001S	21A1	Monitoring	Quarterly/Discrete	West San Antonio Basin	30	Careaga Sand			268.13	267.55	266.98	266.84	265.97	265.02	264.94	266.07	266.37	265.15	264.89	
	_	-	**			-			200.13											
008N034W17K002S	17K2	Monitoring	Quarterly/Discrete	West San Antonio Basin	200	Careaga Sand					257.32	257.32	257.17	257.00	256.90	256.92	257.00	256.99	256.99	
008N034W17E001S	17E1	Monitoring	Quarterly/Discrete	West San Antonio Basin	154	Careaga Sand			225.70	225.34	225.07	224.90	224.82	224.75	224.72	227.38	227.66	226.84	226.43	
		-	**			-	+													
008N034W16C002S	16C2	Monitoring	Continuous/Transducer	West San Antonio Basin	160	Careaga Sand			254.80	254.01	243.41	242.40	255.44	236.13	242.44	237.43	247.96	238.73	245.72	
008N034W16C004S	16C4	Monitoring	Continuous/Transducer	West San Antonio Basin	-231	Careaga Sand			262.75	262.19	256.05	255.33	242.78	250.36	254.69	251.69	255.20	251.96	256.29	
			Continuous/Transducer	West San Antonio Basin		Careaga Sanu														
008N034W17H001S	17H1	Monitoring	Quarterly/Discrete	West San Antonio Basin	199	Careaga Sand			248.92	248.06	247.40	247.63	246.79	245.79	245.70	251.36	250.66	248.95	248.17	
008N034W16F001S	16F1	Monitoring	Quarterly/Discrete	West San Antonio Rasin	219	Caroaga Sand			250.14	249.55	241.97	240.13	236.64	234.17	235.00	235.38	242.02	237.30	239.08	
		Monitoring	Quarterly/Discrete	West San Antonio Basin		Careaga Sand														
008N034W16G003S	16G3	Monitoring	Quarterly/Discrete	West San Antonio Basin	239	Careaga Sand	226	244	248.64	248.48	248.17	247.62	246.96	246.31	245.63	245.12	245.01	245.08	244.83	
008N033W13C001S	13C1	Irrigation		Central San Antonio Basin	-293	Careaga Sand	565	597	582.75		589.65	588.85	587.55	589.75	590.45		589.35	591.37	591.81	Wellhead removed, new RPE
000140334413C0013	1301	ii i igatiUII	Quarterly/Discrete	Central San Antonio Dasiil	-233	Careaga Sariu	505	337	302.73		303.03	300.03	307.33	303.73	330.43		303.33	331.37	331.01	· ·
																				Measured with airline, suspected pumping during
008N033W07	Stephen's Well	Irrigation	Quarterly/Discrete	West San Antonio Basin	83	Careaga Sand				341.06	335.29	332.98	334.13	330.67	334.13		331.82	292.55	294.86	measurement
			**			-				1			1	330.07		-				measurement
008N033W22K003S	22K3	Irrigation	Quarterly/Discrete	Central San Antonio Basin	203	Paso Robles Formation	344	370									373.68	370.74	373.88	
008N033W13Q001S	13Q1	Irrigation		Central San Antonio Basin	367	Paso Robles Formation														
		-																		
008N032W30D001S	30D1	Monitoring		Central San Antonio Basin	-355	Paso Robles Formation	345	388												
008N032W25D001S	25D1	Irrigation		East San Antonio Basin	65	Careaga Sand	634	661												
								1			$\overline{}$									
008N031W22J001S	22J1	Unknown		East San Antonio Basin		Careaga Sand														
008N031W22N001S	22N1	Unknown		East San Antonio Basin	1,026	Paso Robles Formation														
			+		· · · · · · · · · · · · · · · · · · ·		+		ļ			1	+							
008N031W22M001S	22M1	Unknown		East San Antonio Basin		Careaga Sand														
008N034W24E001S	24 E1	Monitoring		West San Antonio Basin	-230	Careaga Sand	220	257												
		ŭ				· · · · · · · · · · · · · · · · · · ·				1			+							
008N033W20Q002S	20Q2	Irrigation		West San Antonio Basin		Paso Robles Formation	298	335												
	VERNAS 1	Unknown		Central San Antonio Basin		_														
	VERNAS 2	Unknown		Central San Antonio Basin																
		Unknown		East San Antonio Basin																
					4				-			'						-		
008N032W27P003S	GUZMAN 2	Unknown		East San Antonio Basin																
					450	Paso Robles Formation														
008N032W30E005S	30E5	Unknown		Central San Antonio Basin	-458															
008N033W25B005S	25B5	Unknown		Central San Antonio Basin	426	Paso Robles Formation														
	_									-	-									
008N032W28P004S	28P4	Unknown		East San Antonio Basin	99	Paso Robles Formation														
0000102414/2CD	Careaga Lease	Unknown		West San Antonio Basin	344	Careaga Sand														
UUXNU34W 36K				I St Gall / III. Gillo Basili									+							Well Besture 124 1 2004
008N034W36R																				
009N034W27L001S	27L1	Unknown		West San Antonio Basin	110	Careaga Sand								\						Well Destroyed March 2021



Green highlighted cells indicate well access agreement has been acquired Yellow highlighted cells indicate well access agreement is pending Red highlighted cells indicate well access denied Gray highlighted cells indicate well access not applicable Minimum Threshold (MT) exceeded Measurable Objective (MO) exceeded NAVD88 = North American Vertical Datum of 1988 GWE = Groundwater Elevation (feet NAVD88)
-- = unknown or not applicable

