

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 7.a.i

FROM: Dan W. Bartel

DATE: August 9, 2022

RE: Onyx Ranch Operations Report

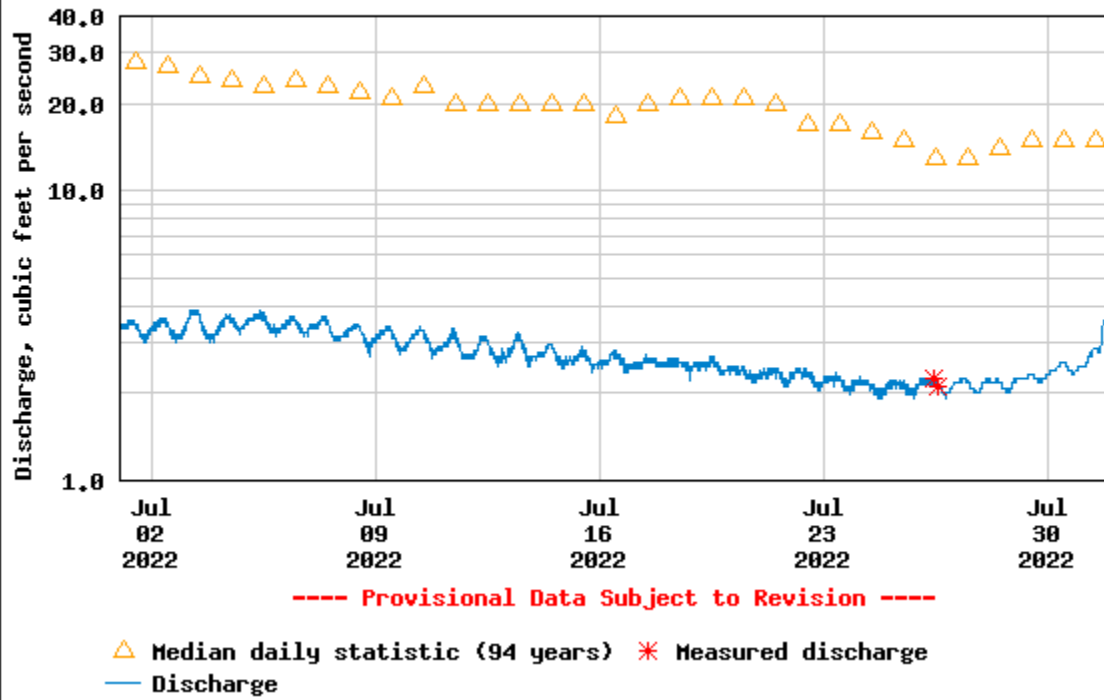
Discussion:

Staff has been working to implement the District's developing goals and objectives on the Ranch. Specifically, staff has:

- Continued operation of conveyance system
- Worked on stockwater systems projects. New piezometers have been drilled.
- Worked on planning for flow metering improvements of other right holders
- Working on planned summer/fall fencing and infrastructure replacement projects
- Worked on planning for Smith irrigation system replacements for summer/fall.
- Continued application process for Smith Ditch Lake and Streambed Alteration Permits.
- Inspected Smith Ditch and Diversion Box. Planning cleaning and replacement.
- The CEQA team distributed the FEIR including responses to comments on 12/30/2020 and the Board Certified the document on 1/12/2020. Staff continued coordination efforts with the Kern River Interests and began redirecting flows March 28 and implemented the Pilot Project April 1, 2022.
- Staff working closely with COB operations staff to coordinate operations. Staff sent correspondence to COB and Watermaster to coordinate upcoming late fall operations.

RRBWSD diverted 106 AF to the Landers for Ben Rudnick obligations and stockwater needs this month to the Onyx Ranch and redirected 0 AF to the reservoir (0-0 cfs), this resulted in **0 AF** of Net Project Water with an average flow of **0 cfs**. Flows dropped to a point on May 21 where there was very little if any flows at Patterson Lane so redirected flows ceased and the limited amount of water still available was diverted for stockwater purposes. Flow at Patterson was stream gaged 0 times and averaged 0 cfs. Wells were operated to supplement irrigation to the Boone field only. South Fork flows downstream of Bloomfield averaged 2.5 cfs plus calculated accretions of 0.4 cfs, for a total average of about 3 cfs.

USGS 11189500 SF KERN R NR ONYX CA



South Fork Kern River Monthly Measurement Report

July-2022

Daily values in SFD = Second Foot Days, Monthly total in AF = Acre-Feet

Date	South Fork				D.Prince (4,5,17,20-22,37)			Hafenfeld (5)			RRBWSD (1,3,6,7,12, Wirth1, 30,33, Boone)				J.Nicoll (3)	on ,5,9,Wirth1,17,18 (20-22,Wirth2,27,29,37)		Smith (Smith)	Total Diverted	South Fork		RRBWSD to Isabella	Isabella			
	Mean Flow	USGS - Onyx	Accretions	Doyle Ranch Road	Mill/Hillside	Miller	Prince	Miller	Landers	Cottonwood	Scodie/Mack	Landers	Nicoll	Redirected "Gross Project Water"	Nicoll	Cottonwood	Nicoll	Smith		Sierra Way "Flow"	Patterson "Flow"	"Net Project Water"	Mean Inflow	North Fork Flow	Difference	3 Day Avg
1		3	0								1.0		0.0				0.0	1	Yes	No	0	271	206	66	407	
2		3	0								1.0		0.0				0.1	1	Yes	No	0	200	191	9	202	
3		3	1								4.2		0.0				0.1	4	Yes	No	0	239	178	61	45	
4		3	1								4.1		0.0				0.1	4	Yes	No	0	197	166	31	34	
5		3	0								1.0		0.0				0.2	1	Yes	No	0	260	154	106	66	
6		3	0								1.0		0.0				0.0	1	Yes	No	0	216	150	66	68	
7		3	0								1.0		0.0				0.0	1	Yes	No	0	246	151	95	89	
8		3	0								1.0		0.0				0.1	1	No	No	0	208	145	63	75	
9		3	0								1.0		0.0				0.1	1	No	No	0	240	138	102	87	
10		3	2								2.9		0.0				2.3	5	No	No	0	218	134	84	83	
11		3	2								2.6		0.0				2.1	5	No	No	0	203	133	70	86	
12		3	0								1.0		0.0				0.1	1	No	No	0	180	130	50	68	
13		3	0								1.0		0.0				0.2	1	No	No	0	171	125	46	55	
14		2	2								2.2		0.0				1.9	4	No	No	0	188	120	68	55	
15		2	1								1.8		0.0				1.6	3	No	No	0	195	118	77	64	
16		2	0								1.0		0.0				0.2	1	No	No	0	163	121	42	62	
17		2	1								1.8		0.0				1.7	3	No	No	0	205	124	81	67	
18		2	1								1.7		0.0				1.7	3	No	No	0	175	141	34	52	
19		2	1								1.7		0.0				1.4	3	No	No	0	200	144	57	57	
20		2	0								1.8		0.0				0.2	2	No	No	0	198	152	46	45	
21		2	0								1.9		0.0				0.1	2	No	No	0	170	139	31	44	
22		2	0								1.8		0.0				0.5	2	No	No	0	90	126	-36	14	
23		2	0								1.7		0.0				0.2	2	No	No	0	189	121	68	21	
24		2	0								1.5		0.0				0.3	2	No	No	0	164	113	51	28	
25		2	0								1.1		0.0				0.4	1	No	No	0	154	106	49	56	
26		2	0								1.6		0.0				0.0	2	No	No	0	144	94	50	50	
27		2	0								1.9		0.0				0.0	2	No	No	0	129	94	35	44	
28		2	0								1.4		0.0				0.0	1	No	No	0	142	101	41	42	
29		2	0								2.0		0.0				0.0	2	No	No	0	176	137	39	39	
30		2	0								2.1		0.0				0.0	2	No	No	0	209	148	61	47	
31		3	1								2.0		0.0				0.0	2	No	No	0	187	141	46	49	
SFD	0	78	13		0	0	0	0	0	0	54	0	0	0	0	0	16	69	0	194	0	5,927	4,240		2,198	
AF	0	154	26		0	0	0	0	0	0	106	0	0	0	0	0	31	137	0	385	0	11,756	8,410		4,360	
		2.5	0.4				0		0					0		0	0.5	2		9.70		0.0				

Note:

Cottonwood via the Landers
 Redirected Historic Irrigation Demand Limit = 37
 Net Project Water = Gross Project water (Redirected) x 80% up to 5,000 AF/yr during pilot period.
 Saturday South Fork Doyle Ranch Flow measurement, value carries for next week Tuesday-Monday.
 Nork Fork Flow measured at Kernville. As Isabella Dam operator, COB to update. <https://www.spk-wc.usace.army.mil/reports/monthly.html>
 Inferred South Fork Flow on a 3 day running average. USGS SFork at 0500

Accumulated Net 0
Pilot Max Net 5000

**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT - ONYX RANCH
MONTHLY GROUNDWATER MONITORING RUN
JUL**

2022

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	8/1/2022	44.8	
Ranch HQ - Domestic	8/1/2022	29.2	
Landers Sand - Old Ag Well	8/1/2022	22.7	
Onyx Store - Old Ag Well	8/1/2022	23.4	
Mack Well	8/1/2022	28.5	
Nicoll Field - Old Ag Well	8/1/2022	21.5	
Mack Field West - Domestic	8/1/2022	18	
Gibboney-2 Piezo	8/1/2022	11.9	
Gibboney-3 Piezo	8/1/2022	10.5	
Boone Piezo	8/1/2022	10.8	
Lieb Piezo	8/1/2022	15	on
Pruitt Piezo	8/1/2022	17.6	
Scodie Well	8/1/2022	27.4	
Pruitt Well	8/1/2022	19.4	
Nicoll Well	8/1/2022	20.5	
Mack Piezo	8/1/2022	21.8	