

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

FROM: Dan W. Bartel

DATE: July 12, 2022

RE: Onyx Ranch Operations Report

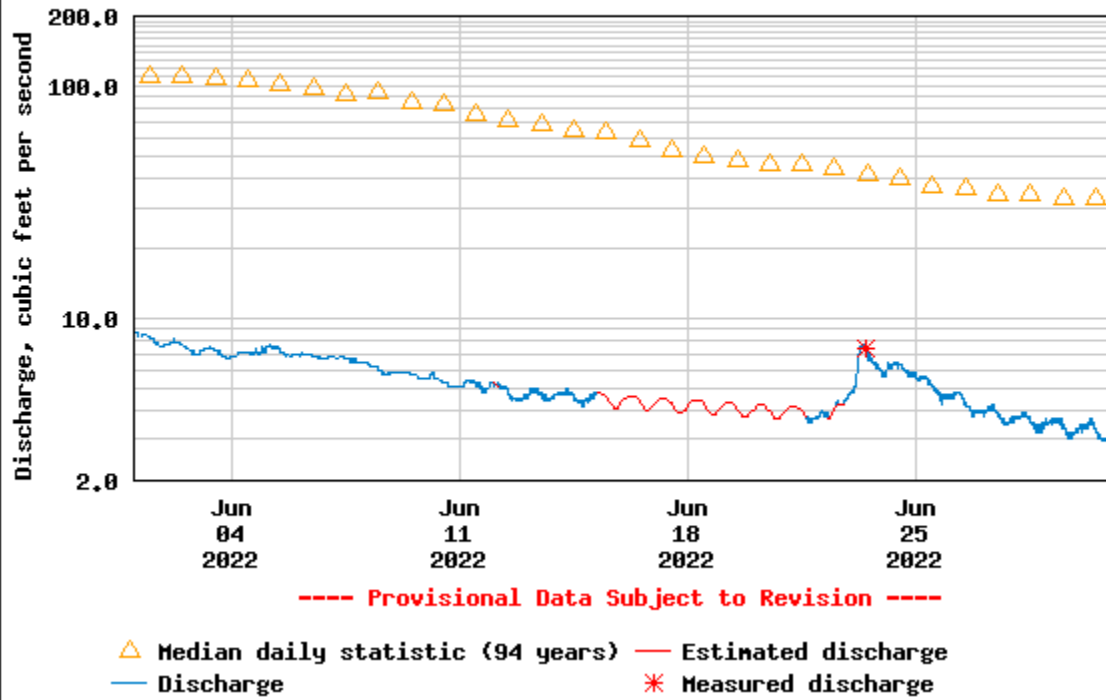
Discussion:

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

- Continued operation of conveyance system
- Worked on stockwater systems projects
- Worked on planning for flow metering improvements of other right holders
- Worked on planning for 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
- 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.

RRBWSD diverted 156 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 5 cfs plus calculated accretions of 1 cfs, for a total average of 6 cfs.

USGS 11189500 SF KERN R NR ONYX CA



South Fork Kern River Monthly Measurement Report

June-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)			RRBWSO (1,3,6,7,12, Wirth1, 30,33, Boone)				J.Nicoll (3)	In (5,9,Wirth1,17,18) (20-22,Wirth2,27,29,37)		Smith (Smith)	Total Diverted	South Fork		RRBWSO 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
W 1		8	0									2.3	0.0				5.0	7	Yes	No	0	485	415	70	409	
R 2		7	2								4.0		0.0				4.7	9	Yes	No	0	476	407	69	224	
F 3		7	1								3.3		0.0				4.3	8	Yes	No	0	421	436	-15	41	
S 4		7	0								3.3		0.0				4.2	7	Yes	No	0	467	455	12	22	
S 5		7	1								3.5		0.0				4.7	8	Yes	No	0	495	463	32	10	
M 6		7	1								3.3		0.0				4.8	8	Yes	No	0	548	474	74	40	
T 7		6	2								3.3		0.0				4.6	8	Yes	No	0	528	470	58	55	
W 8		6	1								2.6		0.0				4.8	7	Yes	No	0	508	457	51	61	
R 9		6	1								3.0		0.0				4.5	7	Yes	No	0	501	473	28	46	
F 10		5	1								2.0		0.0				3.9	6	Yes	No	0	493	472	21	33	
S 11		5	2								3.0		0.0				4.0	7	Yes	No	0	523	470	53	34	
S 12		5	3								4.1		0.0				3.8	8	Yes	No	0	459	480	-21	18	
M 13		5	2								3.9		0.0				3.5	7	Yes	No	0	434	467	-33	0	
T 14		4	2								2.0		0.0				3.5	5	Yes	No	0	415	426	-11	-22	
W 15		4	1								2.0		0.0				3.0	5	Yes	No	0	391	349	42	-1	
R 16		4	1								2.0		0.0				2.5	4	Yes	No	0	347	316	31	21	
F 17		4	0								2.0		0.0				2.4	4	Yes	No	0	250	307	-57	5	
S 18		4	0								1.5		0.0				2.5	4	Yes	No	0	309	299	11	-5	
S 19		4	2								4.1		0.0				2.2	6	Yes	No	0	303	268	35	-4	
M 20		4	1								3.5		0.0				1.8	5	Yes	No	0	313	233	80	42	
T 21		4	0								0.3		0.0				0.3	1	No	No	0	267	208	49	55	
W 22		4	0								1.5		0.0				0.3	2	Yes	No	0	271	198	73	67	
R 23		6	0								1.5		0.0				1.0	3	Yes	No	0	375	360	15	46	
F 24		6	0								1.5		0.0				0.5	2	Yes	No	0	408	369	39	43	
S 25		5	0								-		0.0				0	0	Yes	No	0	335	310	25	27	
S 26		4	0								3.9		0.0				0.3	4	Yes	No	0	357	293	64	43	
M 27		4	1								5.0		0.0				0.3	5	Yes	No	0	285	268	17	35	
T 28		4	0								4.0		0.0				0.2	4	Yes	No	0	294	245	50	43	
W 29		3	0								1.0		0.0				0.1	1	Yes	No	0	290	232	58	41	
R 30		3	0								1.0		0.0				0.0	1	Yes	No	0	261	213	48	52	
SFD	0	153	25		0	0	0	0	0	0	76	2	0	0	0	0	77	155	0	0	0	11,799	10,831		1,479	
AF	0	303	50		0	0	0	0	0	0	151	5	0	0	0	0	153	308	0	0	0	23,403	21,483		2,934	

Note: Cottonwood via the Landers 5
 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.
 North 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 averaged a day later
Bold numbers under Patterson Lane signifies CBK flowtracking
 Signifies estimate at Landers meter

0.0
Accumulated Net 1,114
Pilot Max Net 5000

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

2022

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	7/1/2022	44.2	
Ranch HQ - Domestic	7/1/2022	20.4	
Landers Sand - Old Ag Well	7/1/2022	22.1	
Onyx Store - Old Ag Well	7/1/2022	22.8	
Mack Well	7/1/2022	25.1	
Nicoll Field - Old Ag Well	7/1/2022	19	
Mack Field West - Domestic	7/1/2022	16.8	
Gibboney-2 Piezo	7/1/2022	10.8	
Gibboney-3 Piezo	7/1/2022	8.8	
Boone Piezo	7/1/2022	9.9	
Lieb Piezo	7/1/2022	11.9	
Pruitt Piezo	7/1/2022	16.7	
Scodie Well	7/1/2022	27.1	
Pruitt Well	7/1/2022	18.2	
Nicoll Well	7/1/2022	19.2	
Mack Piezo	7/1/2022	20.6	