



INVERNESS PUBLIC UTILITY DISTRICT

FIRE DEPARTMENT • WATER SYSTEM

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MARCH 2023 – WATER SYSTEM REPORT

/ **End of March Stream-Flows** \

End of MARCH Statistics	Mar. 2023	Mar. 2022	DIVERSION	2023 GPM	2023 GPD	Mar 2022 GPM
RAINFALL @ F1	Recorded at F1	(@ F1)	D1	190	273,600	19
Monthly total (in inches “)	12.49”	1.74”	D2	270	388,800	24
For Year 7/01 -> to date (March 01)	46.26”	27.20”	D3	220	316,800	24
Avg. yearly since 1925 (inches)	37.26”	37.32”	D4	210	302,400	35
*Compare End Mo Streamflow	Jan 2023	Feb 2023	D5	200	288,000	38
<i>*upper diversions total gpm</i>	gpd-> 856,800	1,000,800	D6	260	374,400	37
<i>*Oct21-Dec22: 251;165;975;455;255;224;218;127;92;82;55;60;58;71;660</i>	595 gpm	695 gpm	D7	220	316,800	31
3-MONTH Production-Use trend:	Jan 2023	Feb 2023	D8	50	72,000	@ 16
Dec 2022: 1,364,800 gallons	1,396,700 gal	1,260,800	TOTALS--	1,620	2,332,800	224
44,026 Avg. gallons per day 30.6 Average gpm usage*	45,055 gpd* 31.3 gpm	45,029 gpd 31.3 gpm	MARCH PRODUCTION & SYSTEM USAGE PATTERNS			
SOURCES USED	(Mar 2023)	(Mar 2022)	USE BY	ZONE	2023	2022
1 st Valley High Intakes (D 3)	82 %	50 %	Colby	706,300+	47%	41%
2 nd Valley High Intakes (D)	0.0 % -	31 %	Tenney	481,700 +-	32 %	35%
3 rd Valley Intakes (D 7)	18 % -	19 %	Conner	22,700 -	2 %	4%
1st Valley lower intake (L1)	0 %	0 %	Stockstill	163,700+	11 %	12%
2 nd Valley lower (L2)	0 %	0 %	Sea Haven	116,300-	8 %	8 %
Wells (W1,W2,.W3 nil)	0 %	nil %	MARCH PROD	1,490,700	100 %	100 %
TOTAL	100 %	100.0 %				

(* gpd = gallons per day; gpm = gallons per minute; ppm=parts per million)

MARCH AVERAGE 48,087 gal/day = 33.4 avg gpm

[Trending Note: daily usage up from previous months]

• Water Quality

All sources Ultra and Nano filtered; chlorine and turbidity correct continuously; no positive coliform bacteria samples from distribution sample grabs. Samples of distribution water tested twice monthly and influent raw water are being collected once a month for lab analysis of coliform content. March Average CL₂ dose at F1→ 0.62 parts per million (ppm); average CL₂ at F3→ >@0.67 ppm

• Major Activities

- Monthly reports sent to CA RWQCB / DHS. / TOC Grabs 1st, 2nd, and 3rd valleys
- D3 and D7 on line and producing; all other diversions presently off-line
- Regular flushing of 4” iron line on Via de la Vista & Escondido 2” PVC lines, weather & power failures permitting
- F1: F1 chlorinator suction failed/ Repaired same day
 - Flushed D6-F1 raw water line @ Wright’s slide, 2nd Valley BO and to F1
 - F1 break tank transducer having intermittent glitches (rapid tank too-high/too-low signals, {seasonal issue})
- F3: Nano filter CIP-cleaned. Cleaned Ultra pre-filter and y-screen;
 - Finish water turbidimeter having occasional intermittent light bulb glitches
 - CEB 4-way valve on Chlorine CEB pump failed // repaired
 - Flushed D7 --> F3 raw intake line
- Watershed roads and trails: Brush & tree clearing & chipping; filling potholes and re-establishing water bars
- Leak discovered 115 Forres Way (found saddle bolts completely broken (rusted away) removed old rusted saddle and replaced with all new brass saddle & corporation-stop
- Daylight “savings” time change