

130 TUNNEL ANALYSIS - ESTIMATED WATER USAGE PER CAR

(BASED ON 160 CARS PER HOUR CHAIN SPEED)

Prepared For: MISTER CAR WASH
 Location: New Build (130' CONVEYOR LENGTH)
 Prepared By: Rob Heisterman
 Date: 11/03/2022 (Updated)

APPLICATION NUMBER	FUNCTION	WATER TYPE	JET			RUN TIME IN SECONDS	FLOW RATE AVG. CAR	WATER PER CAR			
			SIZE	QUANTITY	GPM			RECLAIM WATER/CAR	SOFT WATER	R.O.	BLENDED REJECT/CITY
1	TRENCH FLUSH	RECLAIM		1	25	30	12.5	12.5			
2	PRESOAK - SYSTEM GREEN / RED	SOFT		1	4.5	30	2.3		2.3		
3	FRAGRANCE - FRESH	SOFT		1	0.5	6	0.1		0.1		
4	WHEEL CLEANER - SYSTEM SILVER	SOFT		1	2.25	6	0.2		0.2		
5	WRAP AROUND WATER #1	BLENDED		1	1	20	0.3				0.3
6	TOP BRUSH WATER #1	BLENDED		1	1	20	0.3				0.3
7	WRAP AROUND WATER #2	BLENDED		1	1	20	0.3				0.3
8	WRAP FOAMER #1	BLENDED		1	4.5	30	2.3				2.3
9	WRAP AROUND WATER #2	BLENDED		1	1	20	0.3				0.3
10	WRAP AROUND WATER #3	BLENDED		NA	1	NA					
11	ROCKER BRUSH WATER	BLENDED		1	3	20	1.0				1.0
12	UNDERCARRIAGE WASH	RECLAIM		1	5	30	2.5	2.5			
13	SPINNERS	RECLAIM		1	10	30	5.0	5.0			
14	OMNI TOP	BLENDED		1	4	30	2.0				2.0
15	OMNI SIDES	RECLAIM		1	8	30	4.0	4.0			
16	HOTSHINE WAX	BLENDED		1	9	30	4.5				4.5
17	SYSTEM YELLOW	BLENDED		1	3.25	30	1.6				1.6
18	TOP BRUSH WATER #2	BLENDED		1	0.8	20	0.3				0.3
19	SEALER WAX	BLENDED		1	2.25	30	1.1				1.1
20	PROTECTANT	BLENDED		1	2.25	30	1.1				1.1
21	WHEEL PROTECTANT	BLENDED		1	2	6	0.2				0.2
22	MAIN RINSE	BLENDED		1	3	30	1.5				1.5
23	DRYING AGENT	BLENDED		1	1.5	30	0.8				0.8
24	SPOT FREE	RO		1	6	30	3.0			3.0	
25	PREP UNIT	BLENDED		1	0.2	30	0.1				0.1

47.3

GALLONS PER CAR:	24.00	2.53	3.0	18	
GALLONS PER CAR	TOTAL WATER 44.30	RECLAIMED WATER 24.00	CITY WATER 23.30	WATER LOSS/ EVAP PER CAR 3.5	DISCHARGE TO SEWER 19.80