

ASHLEY VALLEY WATER RECLAMATION FACILITY

ANNUAL PLANT PERFORMANCE SUMMARY

2005

MONTH	PLANT FLOW MG		AVG. EFF.	AVG. EFF.	AVG. EFF.	AVG. EFF.	AVG. EFF.	AVG. EFF.	COLIFORM AVG.		INFLUENT BOD (lbs.)	EFFLUENT BOD (lbs.)	BOD (lbs.) REMOVED	REMOVAL %	INFLUENT TSS (lbs.)	EFFLUENT TSS (lbs.)	TSS (lbs.) REMOVED	REMOVAL %	INFLUENT NH3 (lbs.)	EFFLUENT NH3 (lbs.)	NH3 (lbs.) REMOVED	REMOVAL %
	DAILY AVG	TOTAL	pH	BOD mg/l	TSS mg/l	NH3 mg/l	Se mg/l	D.O. mg/l	FECAL	TOTAL												
JANUARY	2.6	81.3	7.58	5	5	0.40	0.003	8.56	2	10	88,145	3,390	84,755	96.2	109,165	3,390	105,775	96.9	10,849	271	10,578	97.5
FEBRUARY	2.4	68.5	7.6	5	6	0.40	0.0037	8.71	2	37	68,555	2,856	65,699	95.8	147,964	3,428	144,536	97.7	8,798	229	8,569	97.4
MARCH	2.30	71.2	7.60	5	6	0.40	0.0019	8.38	2	25	77,195	2,969	74,226	96.2	127,075	3,563	123,512	97.2	8,823	238	8,585	97.3
APRIL	2.20	66.8	7.61	6	5	0.40	0.0021	8.18	2	20	75,767	3,343	72,424	95.6	113,094	2,786	110,308	97.5	9,575	223	9,352	97.7
MAY	2.60	79.3	7.62	6	4	0.40	0.0020	7.65	2	19	70,766	3,968	66,798	94.4	105,818	2,645	103,173	97.5	10,642	265	10,377	97.5
JUNE	2.50	74.7	7.6	6	5	0.40	0.0020	7.35	5	19	68,530	3,738	64,792	94.5	99,680	3,115	96,565	96.9	9,345	249	9,096	97.3
JULY	2.40	74.8	7.6	6	6	0.40	0.0028	6.95	5	17	59,888	3,743	56,145	93.8	108,547	3,743	104,804	96.6	9,295	250	9,045	97.3
AUGUST	2.40	75.6	7.62	5	4	0.40	0.0021	6.73	7	40	61,159	3,153	58,006	94.8	121,687	2,522	119,165	97.9	9,205	252	8,953	97.3
SEPTEMBER	2.40	71.0	7.64	5	5	0.40	0.0021	7.02	2	8	40,858	2,961	37,897	92.8	118,428	2,961	115,467	97.5	8,349	237	8,112	97.2
OCTOBER	2.30	72.5	7.65	5	4	0.40	0.0017	7.18	1	18	84,046	3,023	81,023	96.4	110,651	2,419	108,232	97.8	9,191	242	8,949	97.4
NOVEMBER	2.20	66.5	7.64	5	5	0.40	0.0010	7.67	2	8	78,200	2,773	75,427	96.5	114,804	2,773	112,031	97.6	8,763	222	8,541	97.5
DECEMBER	2.10	64.9	7.6	7	6	0.40	0.0012	8.11	2	8	87,144	3,789	83,355	95.7	116,913	3,248	113,665	97.2	9,039	217	8,822	97.6
AVERAGE	2.37	72.3	7.61	5.5	5.1	0.40	0.0021	7.71	3	19	71,688	3,309	68,379	95.4	116,152	3,049	113,103	97.4	9,323	241	9,082	97.4
TOTALS	X	867.1	X	X	X	X	X	X	X	X	860,253	39,706	820,547	95.4	1,393,826	36,592	1,357,234	97.4	111,874	2,893	108,981	97.4

EFFLUENT PERMIT PARAMETERS	
INFLUENT FLOW	4.7 MGD DESIGN CAPACITY
pH	6.5 -9.0
BOD	20 mg/L MAX
TSS	25 mg/L MAX
AMMONIA -NH3	1.6 mg/L MAX SUMMER
AMMONIA -NH3	1.8 mg/L MAX FALL/SPRING
AMMONIA -NH3	2.2 mg/L MAX WINTER
SELENIUM	0.0055 mg/L MAX
DISSOLVED OXYGEN	5.5 mg/L MIN
FECAL COLIFORM	200 / 100 mL MAX
TOTAL COLIFORM	2000 / 100 mL MAX

LEGEND	
INF.	PLANT INFLUENT
EFF.	PLANT EFFLUENT
MG	MILLION GALLONS
MGD	MILLION GALLONS per DAY
lbs.	POUNDS
mg/L	MILLIGRAMS PER LITER
mL	MILLILITERS
pH	ACID / ALKALINITY SCALE (7.0 NEUTRAL)
BOD	BIO-CHEMICAL OXYGEN DEMAND (ORGANIC STRENGTH)
TSS	TOTAL SUSPENDED SOLIDS (FILTER CAPTURED SOLIDS)
NH3	NITROGEN AMMONIA
Se	SELENIUM
FECAL COLIFORM	PATHOGENIC INDICATING BACTERIA (FOUND IN HUMAN FECES)
TOTAL COLIFORM	PATHOGENIC INDICATING BACTERIA (FOUND IN FECES & OTHER SOURCES)

MONTH	INFLUENT Se (lbs.)	EFFLUENT Se (lbs.)	Se (lbs.) REMOVED	REMOVAL %
JANUARY	2.51	2.03	0.48	19.0
FEBRUARY	1.94	2.11	-0.17	-9.0
MARCH	2.08	1.13	0.95	45.8
APRIL	1.95	1.17	0.78	40.0
MAY	2.05	1.32	0.73	35.5
JUNE	1.87	1.25	0.62	33.4
JULY	2.31	1.75	0.56	24.4
AUGUST	1.64	1.32	0.32	19.3
SEPTEMBER	2.01	1.24	0.77	38.1
OCTOBER	1.33	1.03	0.30	22.7
NOVEMBER	0.94	0.55	0.39	41.0
DECEMBER	1.3	0.65	0.65	50.0
AVERAGE	1.83	1.30	0.53	29.0
TOTAL	21.93	15.56	6.37	29.0