

**Albuquerque Bernalillo County Water Utility Authority
Voluntary Occurrence Monitoring for Pharmaceuticals and Personal Care Products**

**Table 5a: Blank Corrected Results for AXYS Method MLA-075 (EPA Method 1694) Detected Substances
at San Juan Chama Drinking Water Project Water Treatment Plant (WTP) Monitoring Locations (ng/L)**

Substance	Raw Water Pump Station (RWPS)												San Juan Chama Drinking Water Project Water Treatment Plant Filter Inflow (FI)								San Juan Chama Drinking Water Project Water Treatment Plant Finished Water (WTPEP01)										Field Blank				Classification		
	Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Apr-11		Jun-11										
	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL							
2-hydroxy-ibuprofen	U	83.7	U	88.3	U	86.7	U	88.2	U	78.6	U	80.1	U	99.9	363	88.4	224 (N)	81.6	336	104	U	76.7	414	367	545 (N)	250	128	88.2	U	77.9	U	78.6	U	84	U	81.3	Anti-inflammatory
Albuterol	U	0.32	1.01	0.324	U	0.3	U	0.3	U	14.7	U	0.309	U	0.340	U	0.323	U	0.300	U	0.304	U	0.292	U	0.32	U	0.299	U	0.3	U	0.302	U	0.307	U	0.306	U	0.297	Antiasthmatic
Amphetamine	1.68	1.6	U	1.61	U	4.11	U	1.5	U	0.292	3.37	1.87	U	1.70	2.14	1.61	U	1.5	1.56	1.52	U	1.46	U	1.6	1.8	1.52	U	1.5	5.41	1.51	U	1.53	U	1.53	U	1.49	Stimulant
Atenolol	1.71	0.639	4.78	0.645	2.84	0.6	0.731	0.599	1.11	0.696	0.859	0.62	U	0.680	1.08	0.645	0.819	0.600	U	0.609	U	0.585	U	0.641	U	0.599	U	0.682	U	0.659	U	0.955	U	0.612	U	1.44	Antihypertensive
Bisphenol A	U	2620	U	2760	U	2710	U	551	U	491	U	501	U	3120	U	2760	U	2550	11400	650	U	2400	U	11500	U	7800	U	547	U	487	U	491	U	525	U	508	Used to make plastics
Caffeine	U	15.7	U	16.6	U	16.2	U	16.5	U	14.7	U	15	19.5	18.7	194	16.6	U	15.3	U	19.5	U	14.4	U	68.8	U	15.6	U	16.4	U	14.6	U	14.7	U	15.7	U	15.3	Stimulant
Carbamazepine	5.85	1.57	8.18	1.66	6.62	1.62	U	1.65	3.17	1.47	U	1.5	U	1.87	U	1.66	U	1.53	U	1.95	U	1.44	U	6.88	U	1.56	U	1.64	U	1.46	U	1.47	U	1.57	U	1.53	Anticonvulsant
Cimetidine	U	0.32	1.08	0.489	1.11	0.6	U	0.599	U	0.584	0.637	0.62	U	0.340	U	0.323	U	0.600	U	0.609	NQ	NQ	U	0.326	NQ	NQ	U	0.682	U	0.603	U	0.614	U	0.612	U	0.595	Anti-acid reflux
Cotinine	5.99	1.6	2.61	1.61	9.98	1.5	3.75	1.5	2.63	1.46	U	1.54	4.78	1.7	2.84	1.61	5.86	1.50	1.55	1.52	U	1.46	U	1.6	27.2	1.5	U	1.7	U	1.51	U	1.53	U	1.53	U	1.49	Nicotine metabolite
Diltiazem	U	0.314	0.833	0.331	0.677	0.325	U	0.331	0.361	0.295	U	0.3	U	0.375	U	0.332	0.306	U	0.390	U	0.288	U	1.38	U	0.312	U	0.328	U	0.292	U	0.295	U	0.315	U	0.305	Antihypertensive	
Diphenhydramine	U	0.628	U	0.663	U	0.65	U	0.661	U	0.59	U	0.601	U	0.749	U	0.663	U	0.612	1.65	0.781	U	0.684	U	2.75	U	0.624	U	0.657	U	0.584	U	0.589	U	0.63	U	0.61	Antihistamine
Erythromycin anhydrate	0.38	0.314	1.88	0.331	2.08	0.325	0.641	0.331	0.725	0.295	0.667	0.03	U	0.375	U	0.332	U	0.306	U	0.390	U	0.288	U	1.38	U	0.312	U	0.328	U	0.292	U	0.295	U	0.315	0.351	0.31	Macrolide antibiotic
Furosemide	148	74.6	U	67.8	U	43.3	U	45.7	U	39.3	U	40	U	49.9	U	57.7	U	61.1	U	64.5	U	67.7	U	183	U	125	NQ	NQ	U	38.9	U	39.3	U	42	U	40.7	Diuretic
Gemfibrozil	U	1.57	1.97	1.66	14.5	1.62	U	1.65	3.85	1.47	U	1.5	U	1.87	U	1.66	U	1.53	U	1.95	U	1.44	U	6.87	13.7	4.68	U	1.64	U	1.46	U	1.47	U	1.57	U	1.53	Antilipemic
Ibuprofen	U	15.7	U	16.6	U	16.2	U	16.5	U	14.7	U	15	U	18.7	U	16.6	U	15.3	U	19.5	U	14.4	U	68.7	50.8	46.8	U	16.4	U	14.6	U	14.7	U	15.7	U	15.3	Analgesic
Metformin	NQ	NQ	U	32.3	U	30	52	8.64	114	3.41	69.2	8.89	U	110	U	32.3	U	30.0	33.2	10.1	U	104	U	32	U	29.9	U	11.7	10.6	3.58	U	6.66	U	3.06	U	3.56	Anti-diabetic drug
Naproxen	U	3.14	5.04	3.31	U	3.25	U	3.31	U	2.95	U	3	U	3.75	U	3.33	U	3.06	U	3.9	U	2.88	U	13.7	210	9.36	NQ	NQ	U	2.92	U	2.95	U	3.15	U	3.05	Non-steroidal anti-inflammatory drug
Oxycodone	0.997	0.639	U	0.882	2.68	0.6	U	1.61	U	1.07	U	0.618	U	0.680	U	1.33	U	0.600	U	0.609	U	0.585	U	0.988	U	0.599	U	0.682	U	0.603	U	0.614	U	0.612	U	0.595	Narcotic pain reliever
Ranitidine	U	0.709	1.92	0.829	1.44	0.6	U	0.599	U	0.584	U	0.618	U	0.704	U	0.803	U	0.600	U	0.609	U	0.664	U	0.701	U	0.599	U	0.682	U	0.603	U	0.654	U	0.612	U	0.595	Anti-acid reflux
Sulfamethoxazole	14.7	0.937	20.2	0.663	17.3	0.65	4.98	2.01	17.8	1.97	6.76	0.60	U	0.749	U	0.663	U	0.612	U	0.781	U	0.575	U	2.75	U	0.624	U	1.86	U	1.95	U	0.809	U	2.1	U	0.61	Sulfonamide antibiotic
Triamterene	U	0.32	3.1	0.323	2.85	0.3	1.29	0.38	2.3	1.14	1.26	0.68	U	0.340	U	0.323	U	0.300	U	0.304	U	0.292	U	0.32	U	0.299	U	0.341	U	1.05	U	0.58	U	1.24	U	0.473	Diuretic
Trimethoprim	U	1.57	U	1.66	2.97	1.62	U	1.65	U	1.47	U	1.5	U	1.87	U	1.66	U	1.53	U	1.95	U	1.44	U	6.88	U	1.56	U	1.64	U	1.46	U	1.47	U	1.57	U	1.53	Pyrimidine antibiotic

DL = Detection Level
K = Peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration
N = Percent Recovery was slightly above nominal method upper control limit
NQ = Not Quantifiable
U = Not Detected

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Voluntary Occurrence Monitoring for Pharmaceuticals and Personal Care Products**

**Table 5b: Blank Corrected Results for AXYS Method MLA-068 (EPA Method 1698) Detected Substances
at San Juan Chama Drinking Water Project Water Treatment Plant (WTP) Monitoring Locations (ng/L)**

Substance	Raw Water Pump Station (RWPS)										San Juan Chama Drinking Water Project Water Treatment Plant Inflow (FI)					San Juan Chama Drinking Water Project Water Treatment Plant Finished Water (WTPEP01)										WTPEP01 Dup01		WTPEP01 Dup02		Field Blank				Classification							
	Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Dec-09		Dec-09		Apr-11		Jun-11										
	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL									
17 alpha-Ethinyl-Estradiol	U	1.28	U	1.20	U	0.708	1.52 (K)	0.367	U	0.439	0.5	0.476	U	0.719	U	0.977	U	0.563	1.49 (K)	0.69	2.27 (K)	0.889	U	2.56	U	1.77	U	1.26	U	0.376	U	0.324	U	2.36	U	1.96	U	0.300	U	0.188	Ovulation inhibitor
17 beta-Estradiol	U	0.831	U	0.463	U	0.350	0.692 (K)	0.412	U	0.203	U	0.424	U	0.476	U	0.336	U	0.434	0.767 (K)	0.263	0.827 (K)	0.735	U	1.61	U	1.14	1.31 (K)	0.557	U	0.145	U	0.346	U	1.69	U	1.20	0.17	0.161	U	0.146	Sex Hormone
Androstenedione	U	24.0	U	14.2	9.04 (K)	6.43	U	9.41	U	10.1	U	14.4	U	14.4	U	12.9	U	5.64	U	12.9	U	12.0	U	10.6	U	7.12	U	10.0	U	13.8	U	12.6	U	10.9	U	15.8	U	16.8	U	9.62	Anabolic agent
Androsterone	U	0.132	U	0.0934	U	0.447	U	0.129	U	0.888	U	5.88	U	0.154	U	0.115	U	0.265	U	0.089	0.167 (K)	0.0983	U	0.104	U	0.0956	U	0.127	U	0.601	U	0.973	U	0.150	U	0.145	U	0.271	U	0.503	Hormone metabolite
beta-Sitosterol	316	3.30	186	0.904	5280	0.897	172	2.47	170.0	1.4	161.9	1.02	97.4	1.77	223	1.46	201	0.807	86	2.72	232	3.54	140	4.39	462	0.736	U	2.60	237.0	1.43	39.3	0.941	9.00	3.65	88.0	0.89	102.0	1.31	40.4	1.02	Plant sterol
beta-Stigmastanol	27.7	5.95	3.61	0.987	34.7	0.674	4.00	2.21	6.0	1.08	3.9	0.985	U	3.92	3.76	1.33	1.09	0.599	U	2.07	22.4	2.63	11.3 (K)	5.16	4.49	0.684	U	2.66	7.5	1.29	U	0.718	U	4.28	3.35 (K)	0.983	1.8	1.16	U	0.943	Plant sterol
Campesterol	42.5	6.27	6.30	2.07	61.0	3.44	6.40	3.27	14.4	2.49	12.2	1.87	U	3.52	3.62	2.63	U	3.66	U	2.81	23.9	4.94	U	14.2	U	3.72	U	3.58	10.9	2.62	U	1.95	U	14.2	U	6.48	4.9	2.67	U	2.45	Plant sterol
Cholesterol	13.5	2.48	3.62	0.717	10.8	1.96	5.71	2.06	6.6	0.634	6.5	0.597	U	1.37	U	0.703	U	1.37	U	1.49	79.8	2.04	2.67	1.99	1.14	0.57	U	2.39	2.3	0.569	U	0.482	U	1.13	U	1.72	U	0.632	U	0.6	Sterol
Cholesterol	206	9.35	U	3.27	U	3.97	29.5	3.97	122.4	1.47	U	1.95	U	4.02	U	3.54	U	4.34	U	3.24	4060	8.18	U	19.1	U	4.41	U	4.84	97.4	2.19	U	1.66	81.0	15.5	U	6.87	U	1.62	U	2.18	Sterol
Coprostanol	10.6 (K)	6.31	4.45	1.34	5.13	2.43	U	2.44	U	1.19	1.0	0.988	U	2.47	2.31	2.06	U	2.45	U	2.06	17.2	5.56	U	17.0	U	2.43	U	3.08	U	1.19	U	0.954	U	11.5	8.60	6.32	U	1.09	U	1.29	Sterol
Desmosterol	40.1 (K)	12.9	7.79	3.83	13.6	6.27	U	10.4	6.5	1.92	5.6	2.92	U	4.86	U	4.46	U	5.29	U	7.26	22.8	8.60	U	22.6	U	5.02	U	11.3	3.1	2.73	U	3.26	U	20.8	U	11.5	2.0	1.87	2.6	2.21	Sterol
Desogestrel	U	0.872	1.34	0.542	U	0.483	U	0.532	U	0.992	U	6	U	0.445	0.806	0.469	U	0.456	U	0.377	U	0.458	U	0.419	U	0.443	U	0.372	U	0.832	U	1.99	U	0.508	0.972	0.669	U	0.625	U	1.39	Ovulation inhibitor
Epilcoprostanol	U	6.99	U	1.5	U	2.7	U	2.59	U	1.16	U	1.05	U	2.74	U	2.30	U	2.72	U	2.18	U	6.11	U	19.1	U	2.70	U	3.26	U	1.15	U	1.01	U	13.0	8.74 (K)	7.11	U	1.05	U	1.37	Sterol
Equilin	U	2.56	U	2.55	U	1.38	U	1.69	U	1.06	U	3.84	U	1.62	U	1.80	U	1.74	U	1.03	4.90 (K)	2.57	U	6.43	U	4.92	U	2.55	U	0.877	U	1.68	U	5.53	U	4.46	U	0.446	U	0.639	Hormone replacement
Ergosterol	53.5	6.63	3.32	1.55	U	3.41	U	3.85	U	0.937	U	1.36	U	3.80	U	1.43	U	4.31	U	4.03	U	4.04	U	7.18	U	2.53	U	5.20	U	1.44	U	1.17	U	6.52	U	3.11	U	1.18	U	1.62	Sterol
Estrin	U	2.35	U	2.19	U	1.12	U	1.92	U	1.17	U	1.41	U	1.72	U	2.03	U	0.866	U	1.48	U	0.543	U	1.03	0.425 (K)	0.18	U	1.03	U	0.727	U	0.644	U	1.31	U	1.93	U	0.674	U	0.618	Sex Hormone
Mestranol	U	2.46	U	1.49	U	1.12	U	2.25	U	0.718	U	2.06	U	1.26	U	1.91	U	1.13	U	2.06	U	1.32	U	2.37	U	1.58	U	1.80	U	1.21	3.27	3.14	U	1.87	U	2.92	U	0.624	U	0.92	Oral Contraceptive
Stigmasterol	174 (N)	4.09	28.5	2.00	1150 (N)	1.19	57.0	3.93	49.9	1.85	55.2	1.73	31.4 (N)	1.46	44.9	2.01	51.8 (N)	0.971	28.0	3.31	50.9	4.82	U	5.78	114 (N)	1.30	U	3.37	58.7	2.19	9.5	1.77	U	5.34	23.6	1.30	25.4	1.84	9.1	1.8	Plant sterol
T testosterone	U	11.8	U	5.01	U	3.55	U	7.04	U	2.93	U	4.1	6.29 (K)	3.16	U	5.09	U	3.96	8.29	4.66	14.4	5.03	U	5.22	U	3.86	23.3	10.7	U	2.10	U	2.98	U	4.19	U	11.9	U	2.32	U	3.18	Sex Hormone

* Analysis for the sample collected in December 2009 at WTPEP01 was repeated in triplicate due to the complex nature of the matrix. The results reported above as WTPEP01 Dup1 and WTPEP01 Dup 2.

DL = Detection Level

K = Peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

N = Percent Recovery was slightly above nominal method upper control limit

NQ = Not Quantifiable

U = Not Detected.

**Albuquerque Bernalillo County Water Utility Authority
Voluntary Occurrence Monitoring for Pharmaceuticals and Personal Care Products**

**Table 5c. Blank Corrected Results for
AXYS Method MLA-075 (EPA Method 1694) Detected Substances at SWRP Monitoring Locations (ng/L)**

Substance	TP2.3												TP2.7												Classification
	Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		
	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	
1,7-Dimethylxanthine (p-Xanthine)	26100	942	30900	1590	42000	1870	40500	543	47700	1480	30800	1080	U	169	U	172	832	450	204	122	202	117	U	123	Antispasmodic, caffeine metabolite
2-Hydroxy-ibuprofen	85600 (N)	947	67200	5730	88600 (N)	244	24800	139	80700	149	102000	1290	U	89.9	U	91.6	1190 (N)	240	U	162	U	156	U	164	Anti-inflammatory
4-Epianhydrotetracycline (EATC)	74.1	62.8	250	238	U	70.3	U	25.9	U	109	U	34.8	86.4	26.3	130	55.9	U	61.1	U	30.4	U	54	U	30.7	Chlorotetracycline degradate
4-Epitetracycline [ETC]	24.3	23.7	U	22.6	10.2	7.83	U	13.8	U	11.2	42.5	13	U	7.16	U	7.49	U	18	U	12.2	U	11.7	U	12.3	Tetracycline degradate
Acetaminophen	149000	3400	202000	2090	209000	2650	114000	250	164000	7240	111000	4920	U	67.4	U	68.7	U	180	U	30.4	U	29.3	U	30.7	Antipyretic, Analgesic
Albuterol	20.0	1.18	18.2	2.13	28.2	0.332	11.3	0.585	34.1	1.28	23.6	2	10.9	0.326	8.64	0.356	18.9	1.19	11.7	0.605	20.7	0.596	12.5	0.65	Antiasthmatic
Amphetamine	672	5.88	609	14.5	1650	6.76	812	10.1	514	46.2	639	11.4	33.6	1.63	23.7	2.15	22.7	5.96	23.7	3.03	U	8.93	28.9	5.64	Stimulant
Atenolol	1590	2.35	1990	11.6	2050	3.09	1960	3.21	1830	2	1640	6.21	752	0.651	688	1.56	1310	2.40	819	2.37	885	2.76	496	1.56	Antihypertensive
Atorvastatin	65.2	34.2	65.0	19.7	17.4	15.0	41.2	2.93	60.8	3.49	21.7	2.9	U	9.64	U	6.36	U	59.6	U	3.03	3.15	2.98	U	3.21	Lowers blood cholesterol
Azithromycin	744	5.92	268	5.64	289	4.29	179	8.74	1130	15.2	58.4	16.3	713	1.69	1030	1.72	181	4.50	353	9.27	442	2.93	25.2	3.07	Macrolide Antibiotic
Bisphenol A	U	29600	U	9410	U	7620	1640	863	U	933	U	1090	U	2810	U	2860	U	7510	U	1010	U	978	U	1020	Used to make plastics
Caffeine	70300	59.2	90300	56.4	105000	210	73100	25.9	96300	280	90600	163	U	16.9	18.3	17.2	323	45.0	U	30.4	41.1	29.3	U	30.7	Stimulant
Carbamazepine	955	5.92	768	5.64	731	1.52	903	2.59	719	4.12	408	16.3	709	1.69	635	1.72	646	4.50	620	3.04	512	2.95	150	3.07	Anticonvulsant
Cimetidine	579	1.18	546	1.07	582	0.880	550	8.91	464	3.58	334	1.64	3.13	0.326	0.533	0.356	U	2.39	U	1.21	296	3.57	167	1.28	Anti-acid reflux
Ciprofloxacin	292	23.7	475	22.6	262	36.1	174 (N)	14.6	226	153	148	65.2	103	8.19	89.5	8.50	145	18.0	41.5 (N)	23.3	120	23.9	117	84	Quinolone antibiotic
Clarithromycin	140	5.92	25.2	5.64	574	1.52	U	2.59	432	3.15	157	16.3	45.9	1.69	90.6	1.72	324	4.50	36.0	3.04	94.9	2.93	25.4	3.07	Macrolide antibiotic
Codeine	282	11.8	237	45.8	265	3.00	250	5.85	226	18.9	173	14.8	U	48.1	U	31.1	69.0	11.9	13.2	6.05	83.2	8.25	25.2	10.3	Opiate
Cotinine	2890	5.88	2590	37	3090	1.50	3570	2.93	3130	2.98	3090	2.63	70.0	1.75	25.3	1.78	28.8	5.96	28.8	5.33	75.6	8.93	45.1	3.21	Nicotine metabolite
Dehydronifedipine	5.67	2.45	10.6	2.26	3.37	0.610	6.41	1.6	3.96	3.2	U	6.52	3.11	0.674	4.40	0.687	5.71	1.80	8.64	1.22	5.67	1.41	4.7	1.23	Nifedipine metabolite

DL = Detection Level
K = Peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration
N = Percent Recovery was slightly above nominal method upper control limit
NQ = Not Quantifiable
U = Not Detected

**Albuquerque Bernalillo County Water Utility Authority
Voluntary Occurrence Monitoring for Pharmaceuticals and Personal Care Products**

**Table 5c. Blank Corrected Results for
AXYS Method MLA-075 (EPA Method 1694) Detected Substances at SWRP Monitoring Locations (ng/L) (continued)**

Substance	TP2.3												TP2.7												Classification
	Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		
	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	
Digoxin	U	59.2	U	56.4	U	15.2	36.6	17.1	U	11.2	U	65.2	U	16.9	U	17.2	U	45.0	U	12.2	U	11.7	U	12.3	Cardiac glycoside
Diltiazem	310	1.30	325	3.07	394	0.746	449	1.92	535	6.19	172	4	57.4	0.337	34.7	0.344	123	0.901	54.8	0.609	113	0.587	33.5	0.73	Antihypertensive
Diphenhydramine	267	2.37	1250	4.87	549	0.610	888	1.04	933	1.12	82.9	6.52	264	0.803	463	0.687	376	1.80	72.4	1.22	354	1.17	40.4	1.23	Antihistamine
Doxycycline	39.7	23.7	73.8	23.2	27.1	15.0	U	10.4	U	37.3	50.5	14.4	U	6.74	U	11.1	27.4	20.7	U	12.5	U	39.1	U	12.3	Tetracycline antibiotic
Enalapril	16.5	1.18	18.1	1.47	172	0.300	17.1	0.585	10.4	6.41	18.6	2.83	U	0.430	U	0.405	U	1.19	U	0.605	U	3.93	U	1.13	Treats hypertension
Erythromycin anhydrate	311	1.18	363	5.72	298	0.305	252	0.518	255	0.56	234	3.26	239	0.337	270	0.344	226	0.901	191	0.609	171	0.59	120	0.61	Macrolide antibiotic
Fluoxetine	9.52	5.92	38.4	5.64	20.2	2.84	18.4	2.59	9.54	2.84	U	16.3	26.4	1.69	28.8	1.72	38.6	4.50	29.6	3.04	23.6	2.93	10.2	3.07	SSRI Antidepressant
Furosemide	725	166	1070	464	1540	129	1640	87.1	1650	146	2260	101	259	134	508	183	838	146	441	125	759	78.2	286	81.9	Diuretic
Gemfibrozil	4060	17.7	4810	9.28	5890	11.8	24.1	8.38	4000	30	3820	24.4	94.2	1.69	27.5	1.72	590	4.50	110	3.04	345	2.93	50.2	3.07	Antilipemic
Glipizide	U	71	25.8	22.6	42.9	18.3	25.5	10.4	27.6	11.2	34.6	13	11.8	6.74	U	6.87	U	18.0	U	12.2	U	11.7	U	12.3	Glucose control
Glyburide	U	35.5	30.0	11.3	29.6	9.15	446	5.18	19.4	5.6	33.4	19.5	17.2	3.37	18.9	3.44	9.49	9.01	19.4	6.09	8.05	5.87	U	6.14	Glucose control
Hydrochlorothiazide	1240	237	904	75.2	756	61.0	80100	34.5	807	37.3	487	43.4	667	22.5	708	22.9	927	60.1	393	40.6	692	39.1	240	40.9	diuretic
Hydrocodone	U	66	110	10.6	78.2	2.15	112	2.93	72.9	4.32	U	36.3	85.2	1.63	76.2	1.78	65.2	5.96	67.8	3.03	69.6	2.98	76.3	3.21	Narcotic pain reliever
Ibuprofen	35300	177	23600	84.1	31900	46.4	12400	84	25500	160	27100	365	48.7	16.9	38.6	17.2	194	45.0	78.8	30.4	76.1	29.3	U	30.7	Analgesic
Lincomycin	51.3	27.6	41.2	26.4	57.3	14.6	21.1	9.46	60.7	13.3	37.9	32.6	U	7.87	U	8.02	U	21.0	7.21	6.09	28.5	5.87	6.75	6.14	Lincosamide antibiotic
Metformin	62300	741	166000	722	NQ	NQ	85900	543	120000	63.8	85500	129	9800	646	10300	787	5080	235	3740	34.2	14800	13.1	4060	26.2	Anti-diabetic drug
Miconazole	27.6	6.35	44.5	5.64	9.11	3.94	U	8.87	12.6	7.25	U	16.3	1.78	1.69	U	1.72	U	4.50	U	3.04	U	2.93	U	3.07	Antifungal agent
Naproxen	19000	35.5	13600	15	15200	9.15	194	5.18	14500	5.6	14300	41	284	7.51	67.6	3.62	198	10.7	91.1	6.09	278	5.87	30	15.8	Non-steroidal anti-inflammatory drug
Ofloxacin	U	59.2	U	56.4	23.1	15.2	6.11 (N)	2.59	14.3	4.62	U	16.3	U	16.9	U	17.2	U	45.0	4.60 (N)	3.04	16.1	2.93	16.2	4.59	Quinolone antibiotic
Oxycodone	204	3.64	174	2.13	222	1.92	296	1.17	297	10.2	178	16.2	147	0.651	104	14.9	157	4.61	160	15.5	188	1.58	190	1.28	Narcotic pain reliever

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N = Percent Recovery was slightly above nominal method upper control limit
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**Albuquerque Bernalillo County Water Utility Authority
Voluntary Occurrence Monitoring for Pharmaceuticals and Personal Care Products**

**Table 5c. Blank Corrected Results for
AXYS Method MLA-075 (EPA Method 1694) Detected Substances at SWRP Monitoring Locations (ng/L) (continued)**

Substance	TP2.3												TP2.7												Classification
	Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		
	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	
Penicillin G	U	4.73	U	4.51	U	1.22	U	6.17	U	5.6	U	32.6	1.79	1.35	U	1.37	U	3.60	U	6.09	U	5.87	U	6.14	β-lactam antibiotics
Penicillin V	40.8	11.8	U	11.3	68.1	13.5	U	13.9	17.6	13	U	109	U	3.37	U	3.44	U	30.0	U	6.09	U	5.87	U	24.7	β-lactam antibiotics
Ranitidine	1620	8.78	2700	7.16	792	5.53	871	5.32	2410	9.88	375	7.94	16.0	1.01	4.94	1.08	25.8	2.47	5.68	1.21	799	3.54	139	2.34	Anti-acid reflux
Sulfadiazine	30.0	5.92	43.3	5.64	106	2.61	U	2.59	45	4.36	U	16.3	8.75	1.69	17.2	1.72	10.1	4.50	U	3.04	12.8	2.93	U	3.07	Sulfonamide antibiotic
Sulfadimethoxine	U	1.18	U	1.13	U	7.34	26.4	1.85	27.3	3.21	U	6.16	U	0.337	U	0.344	U	0.901	U	0.629	1.27	0.94	U	0.878	Sulfonamide antibiotic
Sulfamerazine	11.1	5.06	U	3.15	U	3.82	U	1.04	U	10.7	U	6.52	U	0.900	U	1.47	U	5.33	U	1.22	U	2.04	U	1.23	Sulfonamide antibiotic
Sulfamethazine	U	2.37	10.3	9.29	U	19	U	1.85	U	1.12	U	21.7	U	0.674	3.44	2.69	U	1.8	7.63	2.93	U	1.17	U	5.09	Sulfonamide antibiotic
Sulfamethizole	U	4.18	U	4.06	7.11	5.50	U	6.46	U	1.12	U	21.7	U	0.674	U	1.04	U	5.01	U	6.33	U	1.17	U	4.09	Sulfonamide antibiotic
Sulfamethoxazole	2170	5.29	1890	9.55	2050	13.4	2070	5.25	1910	11.2	1080	14	607	1.26	475	0.687	585	7.02	829	3.42	812	6.14	492	1.63	Sulfonamide antibiotic
Sulfanilamide	U	59.2	U	56.4	U	15.2	U	25.9	U	28	U	163	27.7	16.9	30.7	17.2	U	45.0	71.4	30.4	U	29.3	U	30.7	Sulfonamide antibiotic
Tetracycline (TC)	55.6	23.7	46.6	22.6	13.8	6.46	U	13.6	16.9	11.2	44.8	13	U	6.74	U	7.35	U	18.0	U	12.2	U	11.7	U	12.3	Tetracycline antibiotic
Thiabendazole	14.1	5.92	29.2	5.64	24.5	1.63	19.0	5.52	33.8	4.38	U	16.3	14.1	1.69	23.0	1.72	21.1	4.50	21.7	3.04	31.7	2.93	13.2	3.07	Fungicide and parasiticide
Triamterene	172	1.79	512	7.19	401	0.644	264	1.07	284	9.52	105	2.01	223	0.326	357	0.427	371	1.19	302	0.605	233	5.96	242	2.1	Diuretic
Triclocarbon	741	35.5	1080	11.3	202	9.15	1740	7.67	125	18.5	366	44.4	19.1	3.37	34.6	3.44	28.4	9.01	89.8	6.09	7.11	5.87	24.7	6.14	Antimicrobial, disinfectant
Triclosan	2430	710	3910	226	1630	183	6.42	2.76	923	346	1330	403	U	67.4	U	68.7	U	180	U	122	U	121	U	126	Antimicrobial, disinfectant
Trimethoprim	470	31.1	623	10.3	579	4.31	601	4.27	506	8.92	254	16.3	38.7	5.80	26.2	3.09	364	4.50	109	3.04	343	2.93	45.8	3.19	Pyrimidine antibiotic
Virginiamycin	U	127	1050	441	U	21.1	U	32.1	U	39	U	103	U	37.2	U	68.4	U	12.1	U	6.09	U	6.15	U	10.1	Macrolide antibiotic
Warfarin	U	17.7	U	5.64	4.99	4.57	U	2.59	U	8.4	8.12	3.26	U	1.69	U	1.72	U	4.50	U	3.04	5.24	2.93	3.1	3.07	Anticoagulant

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NQ = Not Quantifiable
U = Not Detected

**Albuquerque Bernalillo County Water Utility Authority
Voluntary Occurrence Monitoring for Pharmaceuticals and Personal Care Products**

**Table 5d. Blank Corrected Results for
AXYS Method MLA-068 (EPA Method 1698) Detected Analytes at SWRP Monitoring Locations (ng/L)**

Substance	TP2.3												TP2.7												Classification
	Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		Sep-09		Dec-09		Mar-10		Jun-10		Apr-11		Jun-11		
	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	
17a-Dihydroequilin	U	6.76	U	42.9	U	28.1	U	13.7	U	15.2	U	61.5	U	5.23	48.9	17.0	U	8.24	U	5.14	U	5.99	25.7	13.2	Sterol
17 alpha-Estradiol	U	11.0	34.1	24.4	149	60.9	40	15.0	9.7	7.5	771.0	176.0	U	1.31	U	2.44	U	2.69	U	1.44	U	0.762	U	1.16	Sex Hormone
17 alpha-Ethinyl-Estradiol	10.7 (K)	5.68	U	14.9	U	8.74	U	7.28	U	10.3	U	18.6	U	1.31	U	3.94	U	2.11	U	0.776	U	1.2	U	2.9	Ovulation inhibitor
17 beta-Estradiol	12.5 (K)	8.93	37.7 (K)	19.2	U	47.9	U	11.7	9.84	7.2	U	154	U	1.15	U	2.09	U	2.12	U	1.04	U	0.727	U	1.02	Sex Hormone
Androstenedione	236	108	U	435	U	593	U	73.7	163.8	49.3	U	8040	U	20.6	U	49.2	U	39.6	U	18.3	U	13	U	25.2	Hormone metabolite
Androsterone	1450	0.765	1530	14.9	NQ	NQ	677	3.67	690.589	25.8	1950	16	U	0.325	U	0.589	U	0.436	U	0.336	U	6.48	U	6.82	Hormone metabolite
beta-Sitosterol	9270	23.5	3350	1990	9570	10.5	4950	13.0	9271.0	48.0	35930.0	52.6	861	2.68	169	1.91	17600	67.5	5050	41.9	681	76.3	U	32	Plant sterol
beta-Stigmastanol	948	13.8	133	124	1450	15.9	610	50.4	1005.7	40.3	3786.1	42.9	173	7.92	15.1	1.38	260	60.0	U	70.2	U	50.8	U	28.8	Plant sterol
Campesterol	4240 (K)	59.6	836	50.6	2480	11.9	1360	114	3727.2	45.3	13478	76.2	198	5.70	18.1	2.19	426	112	U	109	59.7	58.7	U	41.2	Plant sterol
Cholestanol	2310	18.7	451	49.7	1780	12.7	911	95.7	1489	20.5	5530	23.7	415	2.49	36.2	0.884	101 (K)	18.5	U	83.7	66	29.9	91.3	13.9	Sterol
Cholesterol	101000	86.7	18100	1990	36900	43.2	28500	122	46791	53.1	169396	135	3850	10.2	331	4.03	371	124	280	129	1361	41.5	626	36.5	Sterol
Coprostanol	63500	51.6	1180	124	28600	20.1	17900	61.4	24374	14.4	114000	27.3	3820	6.48	236	2.10	178 (K)	73.1	168 (K)	40.2	266	23.8	322	26.5	Sterol
Desmosterol	583 (K)	279	U	353	1450	334	U	591	U	217	1210	206	73.9 (K)	13.2	22.8	6.55	U	355	U	361	U	97.5	67.4	65.3	Sterol
Desogestrel	U	1.56	U	14.9	U	87.3	66.8 (K)	8.58	U	40.3	U	67.8	U	2.81	4.29	2.32	U	2.77	U	4.11	U	26.9	U	41.2	Ovulation inhibitor
Epicoprostanol	3890	48.8	U	124	359	17.0	334	65.1	1304.8	14	2310	29	140	7.19	10.3	2.35	U	84.8	U	42.6	U	23.1	43.4	28.1	Sterol
Equilenin	15.92	10.6	U	36.3	U	NQ	U	23.0	U	10.5	U	39.7	U	2.69	U	7.53	U	12.6	U	3.39	U	1.39	U	3.04	Hormone replacement
Ergosterol	U	84.6	U	124	183	10.8	U	165	148	32.4	104	97.9	283	10.8	33.1	3.10	U	163	U	186	328	43.9	32.4	25	Sterol
Estriol	737	17.6	359	64.2	NQ	NQ	145	10.7	241	18.4	428	19.3	U	2.85	U	7.80	U	2.72	U	2.55	U	16.9	U	2.88	Sex Hormone
Estrone	70.8 (K)	29.1	153 (K)	116	U	159	U	87.3	42.02	35.8	U	1070	8.30 (K)	5.08	U	12.3	26.6	7.89	7.15 (K)	3.45	14.32	4.31	7.42	5.82	Sex Hormone
Mestranol	18.3	16.6	U	25.9	NQ	NQ	U	29.8	U	12.8	U	333	U	2.63	16.6	14.1	U	8.03	U	3.93	U	8.62	U	8.95	Ovulation inhibitor
Norethindrone	2960 (K)	1020	U	265	NQ	NQ	956 (K)	147	U	159	U	1100	U	4.13	U	13.5	U	12.9	48.2	22.2	U	24.2	U	26.9	Ovulation inhibitor
Norgestrel	2065 (K)	204	408	390	U	44.1	U	73.1	U	124	U	1060	U	11.0	U	28.6	U	13.4	U	13.8	U	55.6	U	30.8	Ovulation inhibitor
Progesterone	348 (K)	167	852 (K)	473	U	134	56.3 (K)	52.0	U	200.0	U	514.0	U	12.6	U	38.1	U	16.8	U	7.71	U	6.36	U	28.8	Sex Hormone
Stigmastanol	2170	53.0	974	49.7	2270 (N)	3.87	1150	50.1	2032	62.2	8200	92.1	306 (N)	5.22	56.6	2.75	4740	101	270	121	215	103	U	54.7	Plant sterol
Testosterone	1370	125	1080	224	NQ	NQ	2230	233	1340	119	2640	1880	U	13.0	U	28.9	U	22.0	U	20.5	U	12.6	U	46.9	Sex Hormone

DL = Detection Level

K = Peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration

N = Percent Recovery was slightly above nominal method upper control limit

NQ = Not Quantifiable

U = Not Detected