

Appendix D
 Cost of Compliance with a Lower Arsenic MCL in New Mexico
 Kelly A. Bitner
 September, 2000

Community Water System (larger than 0.2 mgd)	MCL=5 ug/L Ion Exchange				MCL = 5 ug/L Activated Alumina				MCL = 5 ug/L Coagulation/Microfiltration				MCL=10 ug/L Ion Exchange				Total Capital Treatment
	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	
Alamogordo Domestic Water Supply	7.67	0.23	11600	6.456242	9.87	0.95	11600	13.00658	6.33	0.15	11600	5.0422489	0	0	11600	0	
Albuquerque	250.68	8.17	182000	13.74796	261.09	9.16	182000	14.61682	189.86	4.8	182000	9.7769891	149.16	4.8	182000	8.15225	149.39
Angel Fire Services	3.97	0.42	1400	45.60265	4.44	0.29	1400	40.30365	4.03	0.32	1400	39.96164	1.87	0.19	1400	21.014	2.07
Anthony W&SD	14.84	1.21	2800	74.51861	16.22	1.17	2800	76.90895	14.14	0.87	2800	62.583211	9.18	0.74	2800	45.844	10.04
Artesia Domestic Water System	8.83	0.16	5200	14.90134	14.97	1.21	5200	40.30704	12.32	0.16	5200	19.777551	22.26	1.87	5200	61.0695	23.58
Artesia Rural Water Cooperative	28.78	2.45	5200	79.47411	30.4	2.48	5200	82.21833	25.09	1.62	5200	61.017174	0	0	5200	0	0
Aztec Domestic Water Supply	2.39	0.19	3120	10.64028	2.78	0.2	3120	11.81555	2.33	0.14	3120	9.1650921	0	0	3120	0	0
Belen Water System	2.81	0.05	3912	6.283867	3.23	0.25	3912	11.32429	2.63	0.04	3912	5.7365489	0	0	3912	0	0
Berino MDWCA	4.14	0.28	657.2	81.2723	4.55	0.3	657.2	88.34091	4.14	0.21	657.2	72.396264	3.95	0.26	657.2	76.6358	4.36
Bernalillo Water System	14.13	1.2	3000	67.55345	14.73	1.19	3000	68.72875	12.32	0.79	3000	51.781089	12.46	1.05	3000	59.3424	13.05
Berrendo Cooperative WUA	4.53	0.05	1288	28.78805	5.35	0.47	1288	60.58746	3.9	0.03	1288	23.940314	0	0	1288	0	0
Big Mesa Water CO-OP	2.11	0.17	480	61.45145	2.32	0.15	480	61.15785	2.1	0.13	480	54.355642	1.98	0.16	480	57.7476	2.18
Bloomfield Water Supply System	2.28	0.18	2520	12.52585	2.63	0.19	2520	13.86563	2.24	0.14	2520	11.087778	0	0	2520	0	0
Bosque Farms Water Supply	7.01	0.12	1600	38.08161	7.78	0.64	1600	68.66142	6.22	0.08	1600	32.410974	0	0	1600	0	0
Capitan Water Association	2.34	0.04	542.8	37.46206	2.71	0.2	542.8	66.97853	2.29	0.03	542.8	35.257561	0	0	542.8	0	0
Carlsbad Municipal Water System	24.18	4.59	10400	53.67094	26.78	1.75	10400	32.73088	24.41	1.46	10400	28.751489	1.92	0.36	10400	4.22592	2.13
Carrizozo Water System	2.18	0.04	456.8	41.9701	2.48	0.17	456.8	70.45731	2.16	0.03	456.8	39.827715	0	0	456.8	0	0
Casitas de Santa Fe	1.93	0.15	400	66.30564	2.16	0.14	400	68.39992	1.98	0.11	400	58.880479	0	0	400	0	0
CBG Water Company	2.12	0.09	458	50.00586	2.37	0.16	458	66.70823	2.11	0.07	458	46.208215	0	0	458	0	0
Clayton Municipal Supply	1.99	0.58	960.4	65.38058	2.2	0.14	960.4	28.79069	2.01	0.44	960.4	53.384167	1.91	0.56	960.4	63.04	2.11
Columbus Water System	8.94	0.3	908	99.06699	9.64	0.66	908	137.7077	8.71	0.53	908	118.33529	8.8	0.3	908	97.9468	9.51
Country Club Gardens Mobile Home Par	2.02	0.08	440	48.50638	2.27	0.15	440	65.89204	2.11	0.06	440	46.204612	0	0	440	0	0
Deming Municipal Water System	4.46	0.63	6600	12.86421	5.1	0.36	6600	10.15964	4.41	0.47	6600	10.788963	0	0	6600	0	0
Desert Sands MDWCA	6.41	0.18	514.8	119.6024	7.02	0.47	514.8	175.1552	6.35	0.38	514.8	151.13066	2.3	0.07	514.8	43.7914	2.47
Dona Ana MDWCA	4.38	0.43	3878	17.44607	4.97	0.34	3878	16.61745	4.34	0.32	3878	15.007368	0	0	3878	0	0
El Dorado Utilities	1.95	1.6	1800	81.94494	2.15	0.14	1800	15.15962	1.98	1.23	1800	64.936403	1.9	1.55	1800	79.4283	2.1
Entranosa Water and Waste	2.05	0.33	2310	18.35243	2.32	0.15	2310	12.70812	2.07	0.25	2310	15.529327	0	0	2310	0	0
Espanola Water System	6.75	1.07	4400	31.41096	7.39	0.51	4400	21.86169	6.59	0.4	4400	18.45737	4.27	0.67	4400	19.7402	4.68
Eunice Water Supply System	13.25	0.09	1070.4	96.94205	14.91	1.12	1070.4	188.3975	12.5	0.78	1070.4	145.56961	0	0	1070.4	0	0
Farmington Water System	7.37	0.66	15000	7.236408	8.41	0.79	15000	8.462366	5.94	0.41	15000	5.1548828	0	0	15000	0	0
Flora Vista Water Users Association	1.96	0.28	1321.6	28.43035	2.15	0.14	1321.6	20.64718	1.99	0.21	1321.6	24.181431	1.95	0.28	1321.6	28.3754	2.14
Fort Sumner Municipal Water System	2.44	0.03	532	38.02184	2.84	0.21	532	71.68004	2.36	0.02	532	35.362876	0	0	532	0	0
Gallup Water System	2.01	0.09	8000	2.762936	2.26	0.15	8000	3.61498	2.03	0.07	8000	2.5727661	0	0	8000	0	0
Garfield MDWCA	1.98	0.77	1056	74.38655	2.18	0.14	1056	26.04666	2.01	0.59	1056	60.388404	1.92	0.74	1056	71.6063	2.13
Hacienda Acres Water System	6.17	0.22	848.4	74.44714	6.86	0.45	848.4	102.9476	6.19	0.37	848.4	89.35203	1.99	0.07	848.4	23.9174	2.2
Hatch Water Supply System	2.12	0.17	1032.8	28.63028	2.33	0.16	1032.8	29.30069	2.1	0.13	1032.8	25.262111	1.96	0.15	1032.8	25.891	2.17
Hobbs Municipal Water Supply	71.16	5.86	12800	78.54222	80.01	5.99	12800	84.41193	67.51	4.2	12800	65.663147	4.26	0.34	12800	4.63156	4.69
Hurley Water Supply System	2.09	0.19	640	48.46571	2.32	0.15	640	45.86839	2.09	0.14	640	41.955293	0	0	640	0	0
Jal Water Supply System	6.48	0.15	862.4	69.08615	7.25	0.49	862.4	108.4272	6.43	0.39	862.4	91.856017	0	0	862.4	0	0
Jemez Springs Domestic WUA	2.24	0.18	557.6	56.08776	2.42	0.16	557.6	55.44412	2.18	0.13	557.6	47.833468	2.19	0.18	557.6	55.4363	2.37
La Luz MDWCA	2.12	0.2	800	40.08669	2.36	0.16	800	38.09965	2.11	0.15	800	34.787536	0	0	800	0	0
Lakeshore Sanitation District	2.27	0.13	570	47.94005	2.49	0.17	570	56.5922	2.221	0.09	570	41.467527	2.03	0.11	570	41.957	2.24
Las Cruces	13.12	0.39	4682.8	27.29612	14.62	0.34	4682.8	28.7336	6.02	0.48	4682.8	17.881995	0	0	4682.8	0	0
City of Las Vegas	2.48	0.42	7600	6.976083	2.9	0.21	7600	5.074962	2.39	0.3	7600	5.574256	0	0	7600	0	0
Los Alamos Municipal Water	7.26	0.38	10000	8.441359	7.89	0.56	10000	10.39908	6.95	0.43	10000	8.6327979	4.63	0.24	10000	5.36389	5.01
Los Lunas Water System	11.94	0.45	4462	27.84605	12.34	1.03	4462	39.32958	10.17	0.66	4462	28.88599	10.5	0.39	4462	24.3807	10.94
Lovington Municipal Water System	34.77	2.79	3800	127.6628	38.67	2.64	3800	131.8299	34.4	2.08	3800	111.38518	2.24	0.18	3800	8.23014	2.44
Lower Valley Water Users Association	2.36	0.19	2979.2	11.06999	2.74	0.2	2979.2	12.27642	2.3	0.14	2979.2	9.5250822	0	0	2979.2	0	0

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	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	
Magdalena Village of	2.02	0.08	468	45.60429	2.28	0.15	468	62.10502	2.05	0.06	468	42.50877	0	0	468	0	
Meadow Lake Water System	2.64	0.07	694	36.04328	2.95	0.22	694	57.30016	2.49	0.05	694	32.071404	0	0	694	0	
Mesquite MDWCA	10.38	0.26	1355.6	71.61529	11.67	0.78	1355.6	110.4953	10.42	0.62	1355.6	93.960098	0	0	1355.6	0	
Monterey Water Company Inc.	5.74	0.3	420	158.8178	6.39	0.4	420	189.9032	5.89	0.35	420	171.33326	0	0	420	0	
Morningstar Water Supply System	2.07	0.16	1269.6	22.34778	2.35	0.16	1269.6	23.95011	2.08	0.12	1269.6	19.779511	0	0	1269.6	0	
National Utilities	6.17	0.36	1192	62.77485	6.86	0.45	1192	73.27245	6.2	0.37	1192	63.656809	0	0	1192	0	
New Mexico American Water	26.13	1.42	12400	24.85312	29.37	2.1	12400	31.32139	25.3	1.55	12400	25.24046	4.25	0.23	12400	4.03586	
New Mexico Utilities	22.02	0.45	5600	35.26508	23.27	1.99	5600	59.8035	18.54	1.22	5600	42.208481	12.21	0.25	5600	19.5614	
North Star Water Users Association	2.07	0.17	780	37.44369	2.33	0.16	780	38.79712	2.08	0.13	780	33.263333	0	0	780	0	
Pecos Water System	2.1	0.05	440	44.14555	2.39	0.16	440	69.76745	2.11	0.04	440	42.416733	0	0	440	0	
Picacho Hills Utility Company	6.86	0.05	448.8	120.3374	7.75	0.55	448.8	227.5854	6.71	0.41	448.8	184.75404	0	0	448.8	0	
Polvadera MDWCA	6.01	0.2	680	88.72327	6.7	0.44	680	125.5073	6.08	0.36	680	109.07902	0	0	680	0	
Portales Water System	32.77	1.04	5600	57.99185	36.5	2.5	5600	84.55733	32.38	1.96	5600	71.176344	4.43	0.14	5600	7.8308	
Questa Water Works	2.44	0.11	720	37.35317	2.69	0.19	720	49.13514	2.34	0.08	720	32.871863	0	0	720	0	
Raton Domestic Water System	2.72	0.23	5120	7.603242	3.22	0.25	5120	8.638276	2.58	0.16	5120	6.2652555	0	0	5120	0	
Rio Grande Utilities	8.35	0.08	2040	33.00632	8.98	0.76	2040	63.02783	7.13	0.05	2040	27.435827	3.34	0.03	2040	13.1208	
Rio Rancho	55.88	1.61	18000	30.00879	56.28	1.71	18000	30.6332	47.03	0.89	18000	23.10329	37.58	1.07	18000	20.1223	
Riverside Subdivision	2.12	0.17	438	67.50993	2.32	0.15	438	67.0223	2.1	0.13	438	59.567827	2.04	0.16	438	64.2803	
Ruidoso Water System	13.16	0.27	4000.4	29.52527	12.89	1.26	4000.4	49.65784	9.71	0.16	4000.4	20.968035	11.01	0.23	4000.4	24.7872	
Sangre de Cristo Water Company	32.97	2.7	24000	19.35587	37.33	2.76	24000	20.88408	31.47	1.94	24000	16.262889	0	0	24000	0	
Santa Rosa Water Supply	2.27	0.07	1000	22.32583	2.62	0.19	1000	34.86873	2.24	0.06	1000	21.274533	0	0	1000	0	
Santa Teresa Water System	16.02	0.11	960	130.7903	17.04	1.34	960	245.2806	14.31	0.91	960	187.29317	13.51	0.09	960	110.058	
Silver City Water System	5.11	0.13	5600	8.564217	6.44	0.59	5600	17.13499	4.39	0.09	5600	7.0348534	0	0	5600	0	
Socorro Water System	16.6	0.54	3680	45.00161	17.75	1.33	3680	65.16154	15.32	0.96	3680	51.985376	12.81	0.42	3680	34.8016	
Southside Water Users Association	2.09	0.16	574.4	49.64842	2.32	0.15	574.4	51.10684	2.09	0.12	574.4	43.845266	0	0	574.4	0	
Sunland Park Water System	12.68	0.32	1840	64.56095	13.71	0.99	1840	98.97221	11.98	0.74	1840	80.818673	9.53	0.24	1840	48.4997	
Taos Municipal Water System	2.83	0.07	1800	14.66359	3.36	0.26	1800	25.59915	2.66	0.05	1800	13.051486	0	0	1800	0	
Tierra West Estates Mobile Home Park	4.75	0.11	560	77.99535	5.18	0.37	560	122.2646	4.57	0.08	560	71.195751	2.26	0.05	560	36.7616	
Truth or Consequences	3.98	0.11	3932	9.685408	4.91	0.43	3932	18.18579	3.53	0.07	3932	8.0061684	0	0	3932	0	
Tularosa Water System	1.98	0.58	1280	48.99911	2.2	0.14	1280	21.60202	2.01	0.44	1280	40.054808	0	0	1280	0	
University Estates Water System	4.01	0.32	1202.4	46.40801	4.49	0.29	1202.4	47.2292	4.06	0.25	1202.4	41.85872	0	0	1202.4	0	

MCL=10 ug/L Activated Alumina			MCL=10 ug/L Coagulation/Microfiltration			MCL=20 ug/L Ion Exchange			MCL=20 ug/L Activated Alumina			MCL=20 ug/L Coagulation/Microfiltration							
Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	
0	11600		0	0	11600		0	0	11600		0	0	11600		0	0	11600		0
5.04	182000	8.27132	115.23	2.86	182000	5.90949	68.67	2.19	182000	3.74404	68.22	2.23	182000	3.7444	54.23	1.32	182000	2.7692503	
0.13	1400	18.4805	1.93	0.15	1400	18.9445	0	0	1400		0	0	1400		0	0	1400		0
0.7	2800	46.885	8.92	0.54	2800	39.217	0	0	2800		0	0	2800		0	0	2800		0
1.85	5200	62.5933	19.89	1.26	5200	47.9825	2.34	0.19	5200	6.31431	2.52	0.18	5200	6.40555	2.26	0.14	5200	5.4012516	
0	5200		0	0	5200		0	0	5200		0	0	5200		0	0	5200		0
0	3120		0	0	3120		0	0	3120		0	0	3120		0	0	3120		0
0	3912		0	0	3912		0	0	3912		0	0	3912		0	0	3912		0
0.28	657.2	83.7044	4.01	0.2	657.2	69.6911	0	0	657.2		0	0	657.2		0	0	657.2		0
1.01	3000	59.6601	11.15	0.71	3000	46.7254	6.45	0.54	3000	30.6206	6.65	0.52	3000	30.5495	5.71	0.36	3000	23.82851	
0	1288		0	0	1288		0	0	1288		0	0	1288		0	0	1288		0
0.14	480	57.3027	2	0.12	480	51.1059	0	0	480		0	0	480		0	0	480		0
0	2520		0	0	2520		0	0	2520		0	0	2520		0	0	2520		0
0	1600		0	0	1600		0	0	1600		0	0	1600		0	0	1600		0
0	542.8		0	0	542.8		0	0	542.8		0	0	542.8		0	0	542.8		0
0.13	10400	2.52968	1.97	0.12	10400	2.33778	0	0	10400		0	0	10400		0	0	10400		0
0	456.8		0	0	456.8		0	0	456.8		0	0	456.8		0	0	456.8		0
0	400		0	0	400		0	0	400		0	0	400		0	0	400		0
0	458		0	0	458		0	0	458		0	0	458		0	0	458		0
0.13	960.4	27.2422	1.96	0.43	960.4	52.1382	0	0	960.4		0	0	960.4		0	0	960.4		0
0.64	908	134.832	8.62	0.52	908	116.697	8.51	0.29	908	94.7085	9.24	0.61	908	129.918	8.42	0.51	908	114.1793	
0	440		0	0	440		0	0	440		0	0	440		0	0	440		0
0	6600		0	0	6600		0	0	6600		0	0	6600		0	0	6600		0
0.17	514.8	62.3781	2.22	0.14	514.8	53.9936	2.16	0.06	514.8	40.1968	2.34	0.16	514.8	58.9246	2.13	0.13	514.8	51.104644	
0	3878		0	0	3878		0	0	3878		0	0	3878		0	0	3878		0
0.13	1800	14.4948	1.95	1.2	1800	63.4264	0	0	1800		0	0	1800		0	0	1800		0
0	2310		0	0	2310		0	0	2310		0	0	2310		0	0	2310		0
0.31	4400	13.599	4.23	0.25	4400	11.7196	0	0	4400		0	0	4400		0	0	4400		0
0	1070.4		0	0	1070.4		0	0	1070.4		0	0	1070.4		0	0	1070.4		0
0	15000		0	0	15000		0	0	15000		0	0	15000		0	0	15000		0
0.14	1321.6	20.5922	1.98	0.21	1321.6	24.1265	1.93	0.27	1321.6	27.6349	2.12	0.13	1321.6	19.8517	1.97	0.21	1321.6	24.071482	
0	532		0	0	532		0	0	532		0	0	532		0	0	532		0
0	8000		0	0	8000		0	0	8000		0	0	8000		0	0	8000		0
0.13	1056	24.9135	1.97	0.57	1056	58.5349	0	0	1056		0	0	1056		0	0	1056		0
0.14	848.4	32.5914	2.02	0.12	848.4	29.0855	0	0	848.4		0	0	848.4		0	0	848.4		0
0.14	1032.8	26.5614	1.99	0.12	1032.8	23.6814	0	0	1032.8		0	0	1032.8		0	0	1032.8		0
0.31	12800	4.68032	4.23	0.25	12800	4.0286	0	0	12800		0	0	12800		0	0	12800		0
0	640		0	0	640		0	0	640		0	0	640		0	0	640		0
0	862.4		0	0	862.4		0	0	862.4		0	0	862.4		0	0	862.4		0
0.16	557.6	54.7926	2.15	0.13	557.6	47.4426	2.09	0.17	557.6	52.6388	2.28	0.15	557.6	52.1254	2.08	0.12	557.6	45.035988	
0	800		0	0	800		0	0	800		0	0	800		0	0	800		0
0.15	570	50.4816	2.05	0.08	570	37.8259	0	0	570		0	0	570		0	0	570		0
0	4682.8		0	0	4682.8		0	0	4682.8		0	0	4682.8		0	0	4682.8		0
0	7600		0	0	7600		0	0	7600		0	0	7600		0	0	7600		0
0.35	10000	6.55664	4.48	0.27	10000	5.50491	2.31	0.12	10000	2.67831	2.49	0.17	10000	3.22576	2.23	0.14	10000	2.7868546	
0.88	4462	34.2485	9.17	0.59	4462	25.9504	5.23	0.19	4462	12.0644	5.56	0.41	4462	16.7105	4.88	0.3	4462	13.548909	
0.17	3800	8.39323	2.19	0.27	3800	10.1082	0	0	3800		0	0	3800		0	0	3800		0
0	2979.2		0	0	2979.2		0	0	2979.2		0	0	2979.2		0	0	2979.2		0

MCL=10 ug/L Activated Alumina			MCL=10 ug/L Coagulation/Microfiltration			MCL=20 ug/L Ion Exchange			MCL=20 ug/L Activated Alumina			MCL=20 ug/L Coagulation/Microfiltration						
Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase	Total Capital Treatment	Total Annual O & M	# Customers	Monthly Increase
0	468		0	0	468		0	0	468		0	0	468		0	0	468	
0	694		0	0	694		0	0	694		0	0	694		0	0	694	
0	1355.6		0	0	1355.6		0	0	1355.6		0	0	1355.6		0	0	1355.6	
0	420		0	0	420		0	0	420		0	0	420		0	0	420	
0	1269.6		0	0	1269.6		0	0	1269.6		0	0	1269.6		0	0	1269.6	
0	1192		0	0	1192		0	0	1192		0	0	1192		0	0	1192	
0.31	12400	4.81372	4.22	0.25	12400	4.15269	0	0	12400		0	0	12400		0	0	12400	
1.06	5600	32.2378	10.37	0.68	5600	23.573	4.39	0.09	5600	7.03485	4.46	0.38	5600	11.4411	3.66	0.24	5600	8.3198973
0	780		0	0	780		0	0	780		0	0	780		0	0	780	
0	440		0	0	440		0	0	440		0	0	440		0	0	440	
0	448.8		0	0	448.8		0	0	448.8		0	0	448.8		0	0	448.8	
0	680		0	0	680		0	0	680		0	0	680		0	0	680	
0.33	5600	11.1771	4.34	0.26	5600	9.49975	0	0	5600		0	0	5600		0	0	5600	
0	720		0	0	720		0	0	720		0	0	720		0	0	720	
0	5120		0	0	5120		0	0	5120		0	0	5120		0	0	5120	
0.29	2040	24.5609	2.96	0.02	2040	11.359	0	0	2040		0	0	2040		0	0	2040	
1.1	18000	20.0594	31.89	0.61	18000	15.696	12.87	0.36	18000	6.86144	12.01	0.33	18000	6.37543	11.22	0.22	18000	5.5472949
0.15	438	65.6953	2.05	0.12	438	56.8359	0	0	438		0	0	438		0	0	438	
1.05	4000.4	41.542	8.23	0.13	4000.4	17.6552	6.7	0.14	4000.4	15.0847	6.7	0.61	4000.4	24.8754	5.26	0.08	4000.4	11.219568
0	24000		0	0	24000		0	0	24000		0	0	24000		0	0	24000	
0	1000		0	0	1000		0	0	1000		0	0	1000		0	0	1000	
1.08	960	203.412	12.55	0.78	960	162.689	2.67	0.02	960	21.9431	2.82	0.21	960	39.5713	2.48	0.15	960	31.789826
0	5600		0	0	5600		0	0	5600		0	0	5600		0	0	5600	
0.99	3680	49.4466	12.04	0.74	3680	40.5278	9.36	0.3	3680	25.2729	10.06	0.7	3680	35.7129	9.01	0.55	3680	30.243135
0	574.4		0	0	574.4		0	0	574.4		0	0	574.4		0	0	574.4	
0.73	1840	73.8506	9.15	0.56	1840	61.492	0	0	1840		0	0	1840		0	0	1840	
0	1800		0	0	1800		0	0	1800		0	0	1800		0	0	1800	
0.17	560	57.0838	2.2	0.04	560	34.4951	1.99	0.05	560	33.2587	2.19	0.14	560	49.2463	2.02	0.03	560	30.671682
0	3932		0	0	3932		0	0	3932		0	0	3932		0	0	3932	
0	1280		0	0	1280		0	0	1280		0	0	1280		0	0	1280	
0	1202.4		0	0	1202.4		0	0	1202.4		0	0	1202.4		0	0	1202.4	