Appendix A

2011 and 2012 Sampling Results

Table A-1
Local Limits Update
2010 Local Limits Sampling Results

Parameters	Airport WRF Influent (AP-1)							Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/L)								
Arsenic	0.0065	0.0069	0.0066	0.0066	0.0066	0.0071	0.0065	0.0067
Cadmium	0.0001 J	0.0002 J	0.00011 J	<0.00009	<0.00009	<0.00009	0.00009 J	0.00029
Chromium	0.0066	0.0069	0.007	0.0091	0.0067	0.0064	0.0066	0.0070
Chromium VI	0.006 J	<0.0012	<0.0012	<0.0012	0.002 J	<0.0012	<0.0012	0.0047
Copper	0.018	0.037	0.037	0.032	0.028	0.053	0.039	0.035
Cyanide	<0.0013	<0.0013	0.0034 J	<0.0013	0.0014 J	<0.0013	<0.0013	0.0025
Fluoride	4	2.8	4.1	4	1.8	3.2	3.2	3.3
Lead	0.0011	0.0015	0.0014	0.0025	0.0013	0.002	0.0019	0.0017
Mercury	<0.000089	0.00015 J	<0.000089	0.0018	<0.000089	<0.000089	<0.000089	0.0004
Nickel	0.0038	0.0051	0.0048	0.013	0.0036	0.0053	0.0074	0.0061
Selenium	0.0024	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0012
Silver	0.00017 J	0.00042 J	0.00059 J	0.00038 J	0.00026 J	0.00025 J	0.0042	0.0042
Zinc	0.12	0.12	0.1	0.093	0.085	0.11	0.11	0.11
Conventional and Other Pollutants (mg/L)								
Ammonia	29.1	26.5	27.4	22.4	24.4	24.5	26	25.8
BOD_5	198	251	200	210	205	263	189	217
NO_2/NO_3	0.456	0.384	0.39	0.338	0.337	1.19	0.899	0.571
TKN	42.6	28.4	33.4	33.8	35.8	36.7	43	36.2
Total Nitrogen	43.1	28.8	33.8	34.2	36.1	37.9	43.9	36.8
Phenols	<0.025	<0.025	0.045 J	<0.025	0.081 J	<0.025	0.053 J	0.054
TSS	366	328	214	224	238	308	238	274

Parameters	Airport WRF Effluent (AP-3)								Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	5/3/2010	
Metals and Inorganics (mg/L)									
Arsenic	0.0064	0.006	0.006	0.0058	0.0058	0.0059	0.006	--	0.0060
Cadmium	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	--	0.0005
Chromium	0.0016	0.0014	0.0012	0.0012	0.0015	0.0011	0.00097	--	0.0013
Chromium VI	0.004 J	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.005 J	0.0049
Copper	0.0028	0.0044	0.0026	0.0027	0.0042	0.0034	0.0035	--	0.0034
Cyanide	0.009	0.0025 J	<0.0013	0.0065	0.0048 J	<0.0013	0.0066	--	0.0049
Fluoride	3.2	3.5	3.4	3.7	3.1	3.1	2.8	--	3.3
Lead	0.00086 J	0.00087 J	0.0008 J	0.0007 J	0.001	0.001	0.00089 J	--	0.0009
Mercury	<0.000089	0.00022	<0.000089	<0.000089	0.00009 J	<0.000089	<0.000089	--	0.00012
Nickel	0.0026	0.0036	0.0024	0.0029	0.0031	0.0027	0.0029	--	0.0029
Selenium	0.0022	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	--	0.0012
Silver	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	--	0.0005
Zinc	0.045	0.059	0.046	0.043	0.049	0.05	0.051	--	0.049
Conventional and Other Pollutants (mg/L)									
Ammonia	0.64	0.581	0.37	0.2	1.72	0.8	0.419	--	0.676
BOD_5	2	2	2	3	2	2	2	--	2
NO_2/NO_3	1.45	1.55	2.18	2.24	0.701	1.98	1.25	--	1.62
TKN	1.69	2.01	1.65	0.652	2.39	2.03	1.65	--	1.72
Total Nitrogen	3.14	3.55	3.83	2.9	3.09	4.01	2.9	--	3.346
Phenols	<0.025	<0.025	<0.025	<0.025	0.041 J	<0.025	<0.025	--	0.049
TSS	3.3	2.3	2.3	2.2	2.3	1.6	1.3	--	2.2

Table A-1
Local Limits Update
2010 Local Limits Sampling Results

Parameters	Airport WRF Domestic (AP-7)							Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/L)								
Arsenic	0.0086	0.008	0.0078	0.0079	0.0084	0.0083	0.007	0.008
Cadmium	0.00017 J	0.00014 J	0.0025	0.00016 J	0.00024 J	0.00012 J	0.00016 J	0.0005
Chromium	0.0081	0.0093	0.0093	0.0092	0.011	0.0092	0.0096	0.0094
Chromium VI	<0.0012	<0.0012	<0.0012	<0.0012	0.009 J	<0.0012	<0.0012	0.0056
Copper	0.042	0.043	0.036	0.035	0.048	0.044	0.046	0.042
Cyanide	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0025
Fluoride	0.36 J	0.32 J	0.33 J	0.32 J	0.34 J	0.35 J	0.52	0.36
Lead	0.00075 J	0.0015	0.0023	0.0022	0.0016	0.0013	0.0015	0.0016
Mercury	<0.000089	0.0002	<0.000089	<0.000089	<0.000089	<0.000089	<0.000089	0.0001
Nickel	0.0031	0.015	0.0037	0.0027	0.0034	0.0032	0.0031	0.0049
Selenium	0.003	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0013
Silver	0.0001 J	0.00018 J	0.00017 J	0.00031 J	0.00038 J	0.00023 J	0.00022 J	0.0002
Zinc	0.14	0.15	0.13	0.14	0.18	0.2	0.19	0.16
Conventional and Other Pollutants (mg/L)								
Ammonia	69.2	64.7	42.4	64.7	55.1	56.1	53.8	58.0
BOD_5	327	339	292	327	427	425	423	366
NO_2/NO_3	0.682	0.49	0.555	0.582	0.728	0.71	0.627	0.625
TKN	81.8	77	44.4	68	57.4	63.4	62.5	64.9
Total Nitrogen	82.4	77.6	45	68.6	58.1	64.2	63.1	65.6
Phenols	0.045 J	0.067 J	0.079 J	0.067 J	0.16	0.094 J	0.079 J	0.084
TSS	272	402	246	254	440	406	408	347

Parameters	Airport WRF Domestic (AP-8)								Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	5/3/2010	
Metals and Inorganics (mg/L)									
Arsenic	0.0088	0.0081	0.0076	0.0083	0.008	0.0081	0.0078	--	0.0081
Cadmium	0.00022 J	0.00012 J	0.00012 J	<0.00009	<0.00009	<0.00009	0.00012 J	--	0.0003
Chromium	0.008	0.0081	0.0094	0.0089	0.0072	0.0069	0.0074	--	0.0080
Chromium VI	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.009 J	0.0055
Copper	0.031	0.055	0.071	0.043	0.033	0.073	0.041	--	0.050
Cyanide	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	--	0.0025
Fluoride	0.32 J	0.32 J	0.34 J	0.32 J	0.35 J	0.33 J	0.38 J	--	0.34
Lead	0.0013	0.0019	0.0015	0.0012	0.0012	0.001	0.0014	--	0.0014
Mercury	<0.000089	0.00024	<0.000089	<0.000089	<0.000089	<0.000089	<0.000089	--	0.0001
Nickel	0.0036	0.014	0.0053	0.0035	0.026	0.003	0.0029	--	0.0083
Selenium	0.0027	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	--	0.0008
Silver	0.00021 J	0.00027 J	0.00023 J	0.00025 J	0.00019 J	0.00009 J	0.00012 J	--	0.0002
Zinc	0.19	0.14	0.17	0.14	0.14	0.15	0.15	--	0.15
Conventional and Other Pollutants (mg/L)									
Ammonia	42.5	41.4	38	53.8	40.3	39.9	54.3	--	44.3
BOD_5	444	358	381	341	230	371	352	--	354
NO_2/NO_3	0.59	0.523	1.04	0.638	0.35	0.413	0.488	--	0.577
TKN	54.9	37.6	47.4	59.4	46.6	45	55.7	--	49.5
Total Nitrogen	55.5	38.2	48.4	60	46.9	45.4	56.1	--	50.1
Phenols	0.04 J	0.058 J	0.09 J	0.074 J	0.086 J	0.064 J	0.085 J	--	0.071
TSS	564	352	446	154	184	410	320	--	347

Table A-1
Local Limits Update
2010 Local Limits Sampling Results

Parameters	Sundog WWTP Influent (SD-1)							Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/L)								
Arsenic	0.0076	0.0088	0.0078	0.0079	0.008	0.0088	0.008	0.0081
Cadmium	0.00011 J	0.00033 J	0.00013 J	0.00033 J	0.00041 J	0.00019 J	0.00016 J	0.0002
Chromium	0.0057	0.0093	0.007	0.0076	0.008	0.0081	0.0079	0.0077
Chromium VI	0.005 J	<0.0012	<0.0012	<0.0012	0.003 J	<0.0012	<0.0012	0.0047
Copper	0.047	0.12	0.039	0.061	0.048	0.088	0.056	0.066
Cyanide	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0014 J	0.0023
Fluoride	0.27 J	0.32 J	0.35 J	0.32 J	0.31 J	0.33 J	0.43	0.33
Lead	0.0095	0.0039	0.002	0.0019	0.0018	0.0023	0.0023	0.0034
Mercury	<0.000089	0.00016 J	<0.000089	<0.000089	<0.000089	<0.000089	<0.000089	0.0001
Nickel	0.0054	0.0065	0.004	0.0043	0.0041	0.0044	0.0043	0.0047
Selenium	0.0021	0.0051	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0036
Silver	0.0011	0.0016	0.0014	0.0012	0.0011	0.002	0.0017	0.0014
Zinc	0.15	0.16	0.1	0.12	0.12	0.16	0.15	0.14
Conventional and Other Pollutants (mg/L)								
Ammonia	33.3	72.9	22.5	28.1	21.6	23.7	32	33.4
BOD_5	294	309	312	257	285	251	352	294
NO_2/NO_3	0.495	1.23	0.692	0.464	0.294	0.431	0.589	0.599
TKN	43.5	39.2	28.7	35	34.6	33.4	44.4	37.0
Total Nitrogen	44	40.6	29.4	35.6	34.9	33.9	45.6	37.7
Phenols	0.038 J	<0.025	0.038 J	0.037 J	0.039 J	0.038 J	0.048 J	0.040
TSS	346	320	402	236	280	384	360	333

Parameters	Sundog Primary Clarifer Effluent (SD-2)							Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/L)								
Arsenic	0.0079	0.0076	0.0073	0.0072	0.0071	0.0076	0.0072	0.0074
Cadmium	0.00012 J	0.00014 J	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	0.0004
Chromium	0.0055	0.0048	0.0043	0.0048	0.0049	0.0043	0.0043	0.0047
Chromium VI	0.005 J	<0.0012	0.002 J	<0.0012	0.004 J	<0.0012	<0.0012	0.0044
Copper	0.047	0.068	0.041	0.043	0.033	0.051	0.037	0.046
Cyanide	<0.0013	<0.0013	0.0016 J	<0.0013	<0.0013	0.0014 J	0.0014 J	0.0035
Fluoride	0.28 J	0.33 J	0.35 J	0.32 J	0.35 J	0.33 J	0.4	0.34
Lead	0.012	0.0031	0.0012	0.001	0.00074	0.00081	0.00084	0.0028
Mercury	<0.000089	0.00014 J	<0.000089	<0.000089	<0.000089	<0.000089	<0.000089	0.0001
Nickel	0.0047	0.0046	0.0033	0.0032	0.003	0.0031	0.0031	0.0036
Selenium	0.0023	0.0019 J	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0013
Silver	0.00089 J	0.001	0.00055 J	0.00062 J	0.00047 J	0.0014	0.0011	0.0009
Zinc	0.11	0.087	0.068	0.074	0.07	0.078	0.076	0.080
Conventional and Other Pollutants (mg/L)								
Ammonia	34.2	31.6	24.9	27.3	25.5	25.7	29.9	28.4
BOD_5	176	166	258	155	161	152	146	173
NO_2/NO_3	0.426	0.74	--	0.316	0.271	0.322	0.358	0.406
TKN	38	27.8	--	28	29.5	28.5	17	28.1
Total Nitrogen	38.4	28.6	--	28.2	29.8	28.9	17.3	28.5
Phenols	0.049 J	0.043 J	0.038 J	<0.025	<0.025	0.049 J	0.061 J	0.048
TSS	46	30	49	47	45	51	52	46

Table A-1
Local Limits Update
2010 Local Limits Sampling Results

Parameters	Sundog WWTP Effluent (SD-3)							Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/L)								
Arsenic	0.0072	0.0069	0.0071	0.0069	0.007	0.0073	0.007	0.0071
Cadmium	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	0.0005
Chromium	0.0014	0.0013	0.0012	0.0011	0.0014	0.00094 J	0.00088 J	0.0012
Chromium VI	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0050
Copper	0.0064	0.019	0.0058	0.0062	0.0068	0.0062	0.0066	0.0081
Cyanide	0.0028 J	0.006	0.002 J	0.0072	0.008	0.0083	0.012	0.0066
Fluoride	0.3 J	0.35 J	0.35 J	0.36 J	0.36 J	0.36 J	0.37 J	0.35
Lead	0.00034 J	0.00056 J	0.00044 J	0.00032 J	0.00074 J	0.00031 J	0.00026 J	0.0004
Mercury	<0.000089	0.00014 J	<0.000089	<0.000089	<0.000089	<0.000089	<0.000089	0.0001
Nickel	0.0032	0.0048	0.003	0.0026	0.0028	0.0025	0.0024	0.0030
Selenium	0.0018 J	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0011
Silver	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	0.0005
Zinc	0.047	0.05	0.048	0.046	0.049	0.05	0.05	0.049
Conventional and Other Pollutants (mg/L)								
Ammonia	1.19	1.09	1.36	0.916	0.903	0.83	0.383	0.953
BOD_5	5	4	8	4	3	3	2	4
NO_2/NO_3	4.97	0.614	5.99	7.2	4.85	5.39	8.04	5.29
TKN	2.96	--	3.37	2.14	2.26	1.61	--	2.47
Total Nitrogen	7.94	2.45	9.36	9.34	7.12	7	4.39	6.80
Phenols	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.050
TSS	2.1	2.7	3.9	1.2	1.5	1.4	0.9	2.0

Parameters	Sundog WWTP Domestic (SD-7)							Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/L)								
Arsenic	0.0056	0.0051	0.0053	0.005	0.0065	0.0055	0.0054	0.0055
Cadmium	0.00012 J	0.00071 J	<0.00009	0.00021 J	<0.00009	<0.00009	<0.00009	0.0004
Chromium	0.004	0.0027	0.0034	0.0029	0.0067	0.0034	0.0031	0.0037
Chromium VI	<0.0012	<0.0012	<0.0012	<0.0012	0.003 J	<0.0012	<0.0012	0.0047
Copper	0.018	0.03	0.018	0.017	0.031	0.019	0.019	0.022
Cyanide	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0025
Fluoride	0.29 J	0.37 J	0.37 J	0.36 J	0.37 J	0.38 J	0.41	0.36
Lead	0.0007 J	0.00072 J	0.00062 J	0.00058 J	0.00091 J	0.00064 J	0.00066 J	0.0007
Mercury	<0.000089	0.00018 J	<0.000089	<0.000089	0.00009 J	<0.000089	<0.000089	0.0001
Nickel	0.0043	0.0061	0.0037	0.0035	0.0036	0.0031	0.003	0.004
Selenium	0.0023	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	0.0012
Silver	<0.00009	<0.00009	<0.00009	<0.00009	0.00016 J	<0.00009	0.00011 J	0.0004
Zinc	0.093	0.05	0.053	0.048	0.12	0.068	0.051	0.069
Conventional and Other Pollutants (mg/L)								
Ammonia	44.1	9.68	12.6	14.4	27.4	18.3	15.9	20.3
BOD_5	148	137	106	107	229	165	118	144
NO_2/NO_3	0.572	1.03	0.75	0.594	0.486	0.378	0.386	0.599
TKN	20.7	7.28	15.8	17.22	32.1	26	18.4	19.6
Total Nitrogen	21.4	8.32	16.6	17.8	32.6	26.4	18.8	20.3
Phenols	<0.025	<0.025	<0.025	<0.025	0.046 J	0.034 J	0.025 J	0.044
TSS	140	142	104	114	190	142	104	134

Table A-1
Local Limits Update
2010 Local Limits Sampling Results

Parameters	Sundog WWTP Domestic (SD-8)								Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	4/27/2010	4/28/2010	5/3/2010	
Metals and Inorganics (mg/L)									
Arsenic	0.0074	0.0079	0.0056	0.0075	0.0066	0.0069	0.0081	--	0.0071
Cadmium	0.00013	0.00022	0.00014	0.00018	0.0002	<0.00009	0.00012	--	0.0002
Chromium	0.0052	0.0074	0.0025	0.0061	0.0054	0.0042	0.0065	--	0.0053
Chromium VI	<0.0012	<0.0012	0.002	<0.0012	<0.0012	<0.0012	<0.0012	0.006	0.0048
Copper	0.022	0.041	0.017	0.038	0.13	0.092	0.058	--	0.057
Cyanide	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	0.0016	--	0.0024
Fluoride	0.31	0.36	0.33	0.33	0.34	0.34	0.39	--	0.34
Lead	0.00074	0.0016	0.0016	0.0021	0.0012	0.00084	0.0016	--	0.0014
Mercury	<0.000089	0.00016	<0.000089	<0.000089	<0.000089	<0.000089	<0.000089	--	0.0001
Nickel	0.0034	0.0043	0.0026	0.0028	0.0031	0.0024	0.003	--	0.0031
Selenium	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012	--	0.0010
Silver	0.00017	0.0005	<0.00009	0.0008	0.00015	0.00016	0.00043	--	0.0004
Zinc	0.086	0.15	0.043	0.097	0.087	0.076	0.16	--	0.100
Conventional and Other Pollutants (mg/L)									
Ammonia	22.6	22.2	10.2	21.5	18.1	19.3	24.1	--	19.7
BOD_5	238	297	99	211	193	182	279	--	214
NO_2/NO_3	0.607	1.28	0.491	0.932	0.376	0.554	0.837	--	0.725
TKN	27.7	13.3	16.1	24.8	24.7	27.1	33.1	--	23.8
Total Nitrogen	28.3	14.56	16.6	25.6	25.1	27.6	33.9	--	24.5
Phenols	<0.025	<0.025	0.045	0.049	0.11	0.033	0.048	--	0.055
TSS	240	276	64	160	210	158	260	--	195

Notes:
mg/L = milligrams per kilogram; BOD_5 = biochemical oxygen demand; TKN = Total Kjeldahl Nitrogen;
NO_2/NO_3 = nitrate + nitrite; TSS = total suspened solids
"--" = Not sampled; "<" = Analyte not detected above listed method detection limit;
Trace results, reported between the reporting limit and method detection limit, were qualified "J" to indicate
the result is an estimated value; For calculating averages, 1/2 the reporting limit was used for non-detected results

Table A-2
Local Limits Update
2010 Local Limits Sludge Results

Parameter	Airport WAS			Average
	4/21/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/kg)				
Arsenic	<890	<890	<890	3100
Cadmium	<50	<50	<50	310
Chromium	42 J	<37	<37	54
Chromium VI	<49	<49	<49	60
Copper	5600 J	<250	<250	3933
Cyanide	<3.8	<3.8	<3.8	5.0
Fluoride	460 J	460 J	410 J	443
Lead	430 J	<370	<370	2210
Mercury	3.7 J	<0.65	5.9 J	5.2
Molybdenum	<120	<120	<120	1250
Nickel	210 J	<81	<81	903
Selenium	<2300	<2300	<2300	3100
Silver	<240	<240	<240	1550
Zinc	7500 J	<1600	<1600	6500
Conventional and Other Pollutants (mg/kg)				
Ammonia	<39	450	59000	19858
NO_2	78 J	100 J	<27	101
NO_3	290	360	200 J	283
Phenols	--	--	--	NC
TKN	33000	70000	57000	53333

Parameter	Airport WAS Cake			Average
	4/21/2010	4/26/2010	4/28/2010	
Metals (mg/kg)				
Arsenic	4.2 J	7.4 J	6.8 J	6.1
Cadmium	0.43 J	0.72 J	0.71 J	0.62
Chromium	37	35	8.5	26.8
Chromium VI	<1.8	<1.8	<1.8	2.3
Copper	180	260	300	247
Cyanide	<0.71	<0.71	<0.71	0.90
Fluoride	59	64	57	60
Lead	14 J	22 J	19 J	18
Mercury	0.87	2.4	3.5	2.3
Molybdenum	3.2 J	4.7 J	4.4 J	4.1
Nickel	8 J	12	14	11
Selenium	<8.5	8.2 J	<8.5	9.9
Silver	3.1 J	4.4 J	4.6 J	4.0
Zinc	250	350	390	330
Gen Chem (mg/kg)				
Ammonia	1400	1800	2200	1800
NO_2	7.3 J	5.9 J	11	8
NO_3	3 J	13	100	39
Phenols	<2.9	--	--	4.6
TKN	68000	17000	23000	36000

Table A-2
Local Limits Update
2010 Local Limits Sludge Results

Parameter	Sundog WAS			Average
	4/21/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/kg)				
Arsenic	<110	<110	<110	370
Cadmium	<5.9	<5.9	<5.9	37
Chromium	130 J	<44	<44	93
Chromium VI	<60	<60	<60	75
Copper	420 J	<30	<30	387
Cyanide	<4.5	<4.5	<4.5	6.0
Fluoride	73 J	110 J	99 J	94
Lead	<45	<45	<45	370
Mercury	3.9 J	<0.78	4.2 J	5.2
Molybdenum	<14	<14	<14	150
Nickel	<9.7	<9.7	<9.7	150
Selenium	<270	<270	<270	370
Silver	<28	<28	<28	185
Zinc	520 J	<200	310 J	527
Conventional and Other Pollutants (mg/kg)				
Ammonia	1100	1100	590	930
NO_2	110 J	140 J	<32	133
NO_3	640	1200	460	767
Phenols	--	--	--	NC
TKN	65000	85000	61000	70333

Parameter	Sundog Primary Sludge			Average
	4/21/2010	4/27/2010	4/28/2010	
Metals and Inorganics (mg/kg)				
Arsenic	<30	<30	<30	105
Cadmium	<1.7	<1.7	<1.7	10.5
Chromium	72	<12	<12	38
Chromium VI	<17	<17	<17	21
Copper	160 J	<8.4	<8.4	123
Cyanide	1.3 J	<1.3	<1.3	1.5
Fluoride	20 J	17 J	25 J	21
Lead	24 J	<13	<13	78
Mercury	1.5 J	<0.22	3.4 J	2.3
Molybdenum	4.6 J	<4	<4	4.6
Nickel	5.7 J	<2.7	<2.7	30
Selenium	<77	<77	<77	105
Silver	<7.9	<7.9	<7.9	50
Zinc	520	<56	220 J	317
Conventional and Other Pollutants (mg/kg)				
Ammonia	2200	2500	2900	2533
NO_2	<9.1	<9.1	<9.1	42
NO_3	<20	<20	<20	42
Phenols	--	--	--	NC
TKN	37000	36000	37000	36667

Table A-2
Local Limits Update
2010 Local Limits Sludge Results

Parameter	Sundog Digested Sludge Cake			Average
	4/21/2010	4/26/2010	4/28/2010	
Metals and Inorganics (mg/kg)				
Arsenic	8.3 J	12 J	13 J	11.1
Cadmium	0.9 J	1.4 J	1.6 J	1.3
Chromium	61	59	7.9	43
Chromium VI	<2.7	<2.7	<2.7	3.4
Copper	330	470	570	457
Cyanide	<1	<1	<1	1.4
Fluoride	6.7 J	6.4 J	7.3 J	6.8
Lead	12 J	36	23 J	24
Mercury	5.8	1.4	3.5	3.6
Molybdenum	7 J	10 J	10 J	9.0
Nickel	13	18	20	17
Selenium	<12	<12	<12	16.5
Silver	8.8 J	12 J	13 J	11.3
Zinc	630	810	940	793
Conventional and Other Pollutants (mg/kg)				
Ammonia	7400	5900	6800	6700
NO_2	5.3 J	9.2 J	7.2 J	7.2
NO_3	<3.3	<3.3	<3.3	6.5
Phenols	<2.1	--	--	3.3
TKN	59000	28000	31000	39333

Notes:
mg/kg = milligrams per kilogram; TKN = Total Kjeldahl Nitrogen;
NO_2 = nitrite; NO_3 = nitrate
"--" = Not sampled; "<" = Analyte not detected above listed method detection limit; NC = Not calculated
Trace results, reported between the reporting limit and method detection limit, were qualified "J" to indicate the result is an estimated value; For calculating averages, 1/2 the reporting limit was used for non-detected results

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	Airport WRF Influent (AP-1)					Average
	10/18/2012	10/19/2012	10/20/2012	10/21/2012	10/22/2012	
Metals and Inorganics (mg/L)						
Antimony	<0.003	0.00051	0.00045	<0.003	0.00033	0.0009
Arsenic	0.0067	0.0071	0.0069	0.0064	0.0069	0.0068
Barium	0.027	0.035	0.047	0.026	0.068	0.0406
Beryllium	0.00041	0.00027	0.00042	<0.001	<0.001	0.0004
Cadmium	0.0002	0.00024	0.00024	0.00016	0.00023	0.0002
Chromium	0.0059	0.0082	0.0074	0.0061	0.0072	0.0070
Copper	0.029	0.044	0.035	0.023	0.052	0.037
Fluoride	6.3	7.7	4.9	4	4.4	5.5
Lead	0.0021	0.0032	0.0024	0.0015	0.0014	0.0021
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0033	0.004	0.0032	0.0028	0.0033	0.0033
Selenium	0.0012	<0.002	0.0012	<0.002	<0.002	0.0011
Silver	0.00018	0.00036	0.0022	0.00034	0.0003	0.0007
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Zinc	0.089	0.13	0.11	0.11	0.11	0.110
Conventional and Other Pollutants (mg/L)						
Ammonia	24	30	32	28	30	29
BOD_5	160	190	220	200	230	200
NO_3	0.03	<0.2	<0.2	<0.2	<0.2	0.09
NO_2	0.075	<0.2	<0.2	<0.2	<0.2	0.095
NO_2/NO_3	<0.4	<0.4	<0.4	<0.4	<0.4	0.2
TKN	40	45	47	52	5.6	38
Total N	40	45	47	52	5.6	38
TSS	130	230	330	310	410	282

Parameters	Airport WRF Effluent (AP-3)					Average
	4/21/2010	4/22/2010	4/23/2010	4/24/2010	4/26/2010	
Metals and Inorganics (mg/L)						
Antimony	<0.003	0.00032	0.00029	0.00045	0.00026	0.0006
Arsenic	0.006	0.0056	0.0057	0.006	0.006	0.0059
Barium	0.018	0.015	0.014	0.013	0.013	0.0146
Beryllium	0.00055	0.0028	0.00047	<0.001	<0.001	0.0010
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Chromium	0.0013	0.0013	0.0011	0.0013	0.0014	0.0013
Copper	0.0026	0.0023	0.0032	0.0021	0.0025	0.003
Fluoride	5.4	5.8	5.7	5.4	4.6	5.4
Lead	0.004	0.0023	0.0017	0.0013	0.001	0.0021
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0033	0.003	0.0024	0.0024	0.0022	0.0027
Selenium	<0.002	<0.002	<0.002	<0.002	<0.002	0.001
Silver	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Zinc	0.062	0.057	0.057	0.059	0.058	0.059
Conventional and Other Pollutants (mg/L)						
Ammonia	1.1	0.5	0.52	0.56	0.64	0.66
BOD_5	<5.0	<5.0	<5.0	<5.0	<5.0	2.5
NO_3	0.52	0.62	0.66	0.7	0.7	0.64
NO_2	0.22	0.15	0.1	0.1	0.11	0.14
NO_2/NO_3	0.74	0.78	0.76	0.8	0.81	0.78
TKN	1.9	1.7	1.4	1.6	1.6	1.6
Total N	2.6	2.3	2.1	2.3	2.3	2.3
TSS	1.5	1.0	1	2.5	2	1.6

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	Airport WRF Domestic (AP-7)			Average
	10/18/2012	10/19/2012	10/20/2012	
Metals and Inorganics (mg/L)				
Antimony	<0.003	<0.003	<0.003	0.0015
Arsenic	0.0085	0.0067	0.0082	0.0078
Barium	0.023	0.0096	0.017	0.0165
Beryllium	0.00032	<0.001	0.00043	0.0004
Cadmium	0.00023	0.00018	0.00025	0.0002
Chromium	0.0088	0.0053	0.0094	0.0078
Copper	0.044	0.025	0.039	0.036
Fluoride	0.29	0.38	0.25	0.31
Lead	0.0015	0.0011	0.0021	0.0016
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0025	0.0017	0.0023	0.0022
Selenium	0.0018	0.0012	0.0016	0.0015
Silver	0.00013	0.00014	0.00017	0.0001
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.17	0.13	0.16	0.15
Conventional and Other Pollutants (mg/L)				
Ammonia	41	49	45	45
BOD_5	280	170	350	267
NO_3	0.03	<0.2	<0.2	0.08
NO_2	0.041	<0.2	<0.2	0.080
NO_2/NO_3	<0.4	<0.4	<0.4	0.2
TKN	72	64	63	66
Total N	72	64	63	66
TSS	280	110	240	210

Parameters	Airport WRF Domestic (AP-8)			Average
	4/21/2010	4/22/2010	4/23/2010	
Metals and Inorganics (mg/L)				
Antimony	<0.003	<0.003	<0.003	0.0015
Arsenic	0.0084	0.008	0.0083	0.0082
Barium	0.026	0.018	0.019	0.021
Beryllium	0.00028	0.00033	0.00054	0.0004
Cadmium	0.00018	0.00022	0.00068	0.0004
Chromium	0.0084	0.0077	0.0076	0.0079
Copper	0.037	0.039	0.041	0.039
Fluoride	0.31	0.4	0.25	0.32
Lead	0.00094	0.0013	0.0015	0.0012
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0025	0.0023	0.0025	0.0024
Selenium	0.0016	0.0013	0.0016	0.0015
Silver	0.00034	0.0015	0.00025	0.0007
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.14	0.12	0.15	0.14
Conventional and Other Pollutants (mg/L)				
Ammonia	32	38	39	36
BOD_5	240	220	310	257
NO_3	0.032	<0.2	<0.2	0.08
NO_2	0.1	<0.2	<0.2	0.1
NO_2/NO_3	<0.4	<0.4	<0.4	0.2
TKN	54	51	57	54
Total N	54	51	57	54
TSS	250	200	280	243

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	15130NW-MH100 (PureWafer)			Average
	10/18/2012	10/19/2012	10/20/2012	
Metals and Inorganics (mg/L)				
Antimony	0.0015	0.0015	0.0012	0.0014
Arsenic	0.0042	0.004	0.0044	0.0042
Barium	0.003	0.0013	0.014	0.0061
Beryllium	0.00036	<0.001	0.00048	0.0005
Cadmium	<0.001	0.0001	<0.001	0.0004
Chromium	0.0042	0.0044	0.0076	0.0054
Copper	0.021	0.045	0.015	0.0270
Fluoride	41	49	29	40
Lead	0.0003	0.00026	0.00059	0.0004
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0006	0.00093	0.0022	0.0012
Selenium	<0.002	<0.002	<0.002	0.0010
Silver	<0.001	0.00022	<0.001	0.0004
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.011	0.0046	0.02	0.0119
Conventional and Other Pollutants (mg/L)				
Ammonia	5.9	5.5	7.3	6.2
BOD_5	33	30	110	58
NO_3	2.4	4.7	1.5	2.9
NO_2	0.047	0.038	0.04	0.042
NO_2/NO_3	2.5	4.7	1.5	2.9
TKN	14	14	22	17
Total N	16	19	24	20
TSS	38	26	79	48

Parameters	15130NW-MW104 (Ester C)			Average
	4/21/2010	4/22/2010	4/23/2010	
Metals and Inorganics (mg/L)				
Antimony	<0.003	<0.003	0.0007	0.0012
Arsenic	0.008	0.0046	0.0061	0.0062
Barium	0.24	0.14	0.091	0.1570
Beryllium	0.00077	0.00048	0.0006	0.0006
Cadmium	0.0048	0.0023	0.00051	0.0025
Chromium	0.029	0.014	0.013	0.0187
Copper	0.41	0.19	0.17	0.257
Fluoride	0.43	0.57	1.1	0.70
Lead	0.027	0.013	0.005	0.0150
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.032	0.015	0.0095	0.0188
Selenium	0.0035	0.0012	0.0014	0.0020
Silver	0.00031	0.00013	<0.001	0.0003
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.8	0.31	0.29	0.47
Conventional and Other Pollutants (mg/L)				
Ammonia	97	48	22	56
BOD_5	1500	690	1500	1230
NO_3	<0.2	<0.2	0.46	0.22
NO_2	<0.2	<0.2	0.21	0.14
NO_2/NO_3	<0.4	<0.4	0.67	0.36
TKN	220	1100	130	483
Total N	220	1100	130	483
TSS	1100	580	660	780

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	15225NW-MH100 (Sturm Ruger)			Average
	10/18/2012	10/19/2012	10/20/2012	
Metals and Inorganics (mg/L)				
Antimony	0.0016	0.0014	0.00087	0.0013
Arsenic	0.0054	0.0039	0.0049	0.0047
Barium	0.03	0.026	0.025	0.027
Beryllium	0.00085	0.00036	0.00058	0.0006
Cadmium	0.00083	0.0012	0.00071	0.0009
Chromium	0.011	0.013	0.0077	0.0106
Copper	0.03	0.028	0.025	0.0277
Fluoride	0.63	0.69	0.56	0.63
Lead	0.035	0.031	0.012	0.0260
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.02	0.022	0.014	0.019
Selenium	0.0016	0.0013	0.0012	0.0014
Silver	<0.001	<0.001	<0.001	0.0005
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.11	0.085	0.082	0.092
Conventional and Other Pollutants (mg/L)				
Ammonia	25	25	23	24
BOD_5	180	150	190	173
NO_3	8.2	14	5.9	9.4
NO_2	9.4	11	8.8	9.7
NO_2/NO_3	18	25	15	19
TKN	43	35	34	37
Total N	61	60	49	57
TSS	200	220	150	190

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	Sundog WWTP Influent (SD-1)					Average
	10/25/2012	10/26/2012	10/27/2012	10/28/2012	10/29/2012	
Metals and Inorganics (mg/L)						
Antimony	<0.003	0.002	0.0006	<0.003	<0.003	0.0014
Arsenic	0.009	0.013	0.0091	0.0077	0.0086	0.0095
Barium	0.054	0.063	0.063	0.041	0.041	0.0524
Beryllium	<0.001	0.00041	0.00037	0.00035	0.0003	0.0004
Cadmium	0.00028	0.00047	0.00023	0.00016	0.00022	0.0003
Chromium	0.0089	0.014	0.0083	0.0079	0.01	0.0098
Copper	0.05	0.15	0.051	0.051	0.057	0.072
Fluoride	0.42	0.41	0.4	0.33	0.35	0.38
Lead	0.0036	0.004	0.0023	0.0016	0.0016	0.0026
Mercury	<0.0002	<0.0002	0.000074	<0.0002	<0.0002	0.0001
Nickel	0.0052	0.0059	0.0041	0.0042	0.0046	0.0048
Selenium	0.0012	0.0017	0.0014	<0.002	0.0014	0.0013
Silver	0.00056	0.0012	<0.001	0.00054	<0.001	0.0007
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Zinc	0.17	0.35	0.17	0.15	0.15	0.20
Conventional and Other Pollutants (mg/L)						
Ammonia	30	32	28	27	25	28
BOD_5	270	370	290	310	310	310
NO_3	<0.2	<0.2	<0.2	<0.2	<0.2	0.1
NO_2	<0.2	<0.2	<0.2	<0.2	<0.2	0.1
NO_2/NO_3	<0.4	<0.4	<0.4	<0.4	<0.4	0.2
TKN	40	55	42	41	40	44
Total N	40	55	42	41	40	44
TSS	330	440	290	310	280	330

Parameters	Sundog WWTP Effluent (SD-3)					Average
	10/25/2012	10/26/2012	10/27/2012	10/28/2012	10/29/2012	
Metals and Inorganics (mg/L)						
Antimony	<0.003	<0.003	<0.003	<0.003	<0.003	0.0015
Arsenic	0.0074	0.0074	0.0071	0.0064	0.0061	0.0069
Barium	0.0098	0.0099	0.0098	0.0096	0.0098	0.0098
Beryllium	<0.001	0.00039	0.00032	0.00029	0.00037	0.0004
Cadmium	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Chromium	0.0017	0.0017	0.0017	0.0017	0.0016	0.0017
Copper	0.0031	0.0027	0.003	0.003	0.0029	0.0029
Fluoride	0.34	0.39	0.4	0.35	0.35	0.37
Lead	0.00024	0.00027	0.0003	0.00022	0.00018	0.0002
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.002	0.0021	0.002	0.0022	0.0021	0.0021
Selenium	<0.002	<0.002	<0.002	<0.002	<0.002	0.0010
Silver	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Thallium	<0.001	<0.001	<0.001	<0.001	<0.001	0.0005
Zinc	0.038	0.042	0.041	0.037	0.035	0.039
Conventional and Other Pollutants (mg/L)						
Ammonia	--	1.2	1.4	1.5	0.64	1.19
BOD_5	<5.0	<5.0	<5.0	<5.0	<5.0	2.5
NO_3	--	3.6	2.2	3.3	5	3.5
NO_2	--	0.87	1	0.89	0.65	0.85
NO_2/NO_3	--	4.5	3.2	4.2	5.7	4.4
TKN	--	3.3	3.7	3.3	2.4	3.2
Total N	--	7.8	6.9	7.5	8.1	7.6
TSS	2	1.5	1.5	1.5	2	1.7

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	Sundog WWTP Domestic (SD-7)			Average
	10/25/2012	10/26/2012	10/27/2012	
Metals and Inorganics (mg/L)				
Antimony	0.00057	<0.003	<0.003	0.0012
Arsenic	0.007	0.0079	0.0071	0.0073
Barium	0.038	0.049	0.037	0.0413
Beryllium	<0.001	0.00033	0.00043	0.0004
Cadmium	0.00028	0.0003	0.00017	0.0003
Chromium	0.0075	0.0083	0.0074	0.0077
Copper	0.043	0.044	0.039	0.042
Fluoride	0.34	0.41	0.34	0.36
Lead	0.0045	0.0021	0.0017	0.0028
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0028	0.0026	0.0024	0.0026
Selenium	<0.002	0.0016	0.0014	0.0013
Silver	0.00018	<0.001	<0.001	0.0004
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.14	0.17	0.14	0.15
Conventional and Other Pollutants (mg/L)				
Ammonia	37	33	29	33
BOD_5	240	250	210	233
NO_3	0.17	<0.2	0.056	0.1087
NO_2	0.089	<0.2	0.076	0.0883
NO_2/NO_3	<0.4	<0.4	<0.4	0.2
TKN	55	34	43	44
Total N	55	34	43	44
TSS	290	300	240	277

Parameters	Sundog WWTP Domestic (SD-8)			Average
	10/25/2012	10/26/2012	10/27/2012	
Metals and Inorganics (mg/L)				
Antimony	<0.003	<0.003	<0.003	0.0015
Arsenic	0.0084	0.0086	0.0084	0.0085
Barium	0.07	0.052	0.056	0.0593
Beryllium	<0.001	0.00035	0.00042	0.0004
Cadmium	0.00065	0.00054	0.0008	0.0007
Chromium	0.0099	0.0087	0.008	0.0089
Copper	0.055	0.04	0.14	0.08
Fluoride	0.42	0.31	0.33	0.35
Lead	0.0018	0.0013	0.0016	0.0016
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0024	0.0023	0.0021	0.0023
Selenium	0.0015	0.0015	0.0012	0.0014
Silver	0.0012	<0.001	<0.001	0.0007
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.16	0.13	0.13	0.14
Conventional and Other Pollutants (mg/L)				
Ammonia	33	37	30	33
BOD_5	290	260	140	230
NO_3	<0.2	<0.2	<0.2	0.1
NO_2	<0.2	<0.2	<0.2	0.1
NO_2/NO_3	<0.4	<0.4	<0.4	0.2
TKN	52	33	42	42
Total N	52	33	42	42
TSS	340	300	270	303

Table A-3
Local Limits Update
2012 Local Limits Sampling Results

Parameters	14234SW-MW104 (Fortner)			Average
	10/25/2012	10/26/2012	10/27/2012	
Metals and Inorganics (mg/L)				
Antimony	<0.003	<0.003	<0.003	0.0015
Arsenic	0.008	0.008	0.0081	0.0080
Barium	0.013	0.011	0.0098	0.0113
Beryllium	<0.001	0.00024	0.00028	0.0003
Cadmium	0.00011	0.00026	0.00012	0.0002
Chromium	0.0097	0.0067	0.0073	0.0079
Copper	0.029	0.021	0.022	0.024
Fluoride	0.45	0.32	0.3	0.36
Lead	0.0019	0.0053	0.0021	0.0031
Mercury	<0.0002	<0.0002	<0.0002	0.0001
Nickel	0.0022	0.0021	0.0016	0.0020
Selenium	0.0012	<0.002	<0.002	0.0011
Silver	<0.001	<0.001	<0.001	0.0005
Thallium	<0.001	<0.001	<0.001	0.0005
Zinc	0.11	0.098	0.075	0.094
Conventional and Other Pollutants (mg/L)				
Ammonia	33	18	17	23
BOD_5	320	99	120	180
NO3	0.42	0.38	0.22	0.34
NO_2	0.094	0.067	0.053	0.071
NO_2/NO_3	0.52	0.44	<0.4	0.39
TKN	84	40	27	50
Total N	84	40	27	50
TSS	200	89	100	130

NO_2/NO_3 = nitrate + nitrite; BOD_5 = biochemical oxygen demand; TSS = total suspened solids

TKN = total Kjeldalh nitrogen; NO_2 = nitrite; NO_3 = nitrate

"--" = Not sampled; "<" = Analyte not detected above listed method detection limit;

Trace results, reported between the reporting limit and method detection limit, were qualified "J" to indicate the result is an estimated value; For calculating averages, 1/2 the reporting limit was used for non-detected results

Appendix B

Pollutants of Concern

Table B-1
Local Limits Update
Most Stringent Effluent Criteria

Potential Pollutants of Concern	Most Stringent Effluent Criteria	Airport WRF APP	Sundog WWTP APP	Hassayampa WRF APP
Inorganics (mg/L)				
Antimony	0.006	0.006	0.006	0.006
Arsenic	0.05	0.05	0.05	0.05
Barium	2.0	2.0	2.0	2.0
Beryllium	0.004	0.004	0.004	0.004
Cadmium	0.005	0.005	0.005	0.005
Chromium	0.1	0.1	0.1	0.1
Lead	0.05	0.05	0.05	0.05
Mercury	0.002	0.002	0.002	0.002
Nickel	0.1	0.1	0.1	0.1
Selenium	0.05	0.05	0.05	0.05
Thallium	0.002	0.002	0.002	0.002
Volatile Organics (mg/L)				
1,1-Dichloroethene	0.007	0.007	0.007	0.007
1,2-Dichloroethane	0.005	0.005	0.005	0.005
1,2-Dichlorobenzene	0.6	0.6	0.6	0.6
1,2-Dichloropropane	0.005	0.005	0.005	0.005
1,4-Dichlorobenzene	0.075	0.075	0.075	0.075
1,1,1-Trichloroethane	0.2	0.2	0.2	0.2
1,1,2-Trichloroethane	0.005	0.005	0.005	--
Benzene	0.005	0.005	0.005	0.005
Carbon tetrachloride	0.005	0.005	0.005	0.005
Chlorobenzene	0.1	0.1	0.1	0.1
cis-1,2-Dichloroethene	0.07	0.07	0.07	0.07
Ethylbenzene	0.7	0.7	0.7	0.7
Methylene chloride	0.005	0.005	0.005	--
Styrene	0.1	0.1	0.1	0.1
Tetrachloroethene	0.005	0.005	0.005	0.005
Toluene	1.0	1.0	1.0	1.0
trans-1,2-Dichloroethene	0.1	0.1	0.1	0.1
Trichloroethene	0.005	0.005	0.005	0.005
Trihalomethanes	0.1	0.1	0.1	0.1
Vinyl chloride	0.002	0.002	0.002	0.002
Xylenes (total)	10	10	10	10
Semivolatile Organics (mg/L)				
1,2,4-Trichlorobenzene	0.07	0.07	0.07	--
Hexachlorobenzene	0.001	0.001	--	0.001
Hexachlorocyclopentadiene	0.05	0.05	--	0.05
General Chemistry Parameters (mg/L)				
Cyanide, Free	0.2	0.2	0.2	--
Fluoride	4.0	4.0	4.0	--
Total Kjeldahl Nitrogen	10.0	10.0	--	--
Nitrate - Nitrite	10	10	--	--
Nitrogen, Total (NO2 + NO3 + TKN)	10	10	10	10
Microbiological Parameters (CFU/100 ml)				
Fecal Coliform single sample max	800	800	800	800
Fecal Coliform four of last seven samples	200	200	200	200

Table B-1
Local Limits Update
Most Stringent Effluent Criteria

Potential Pollutants of Concern	Most Stringent Effluent Criteria	Airport WRF APP	Sundog WWTP APP	Hassayampa WRF APP

Notes:
APP = Aquifer Protection Permit; discharge limits (DL) are listed as effluent limits
Airport WRF APP = APP No. P-101733
Sundog WWTP APP = APP No. P-100353
Hassayampa WRF APP = APP No. P-103159
Trihalomethanes = Sum of bromoform, chloroform, bromodichloromethane, and dibromochloromethane
mg/L = milligram per liter
CFU/100 ml = Colony Forming Units per 100 milliliters

Table B-2
Local Limits Update
Operational and Sludge Criteria

Potential Pollutants of Concern	Effluent Criteria	Inhibition Level	H&S Level	Biosolids Criteria (mg/kg)
Inorganics (mg/L)				
Antimony	0.006	--	--	--
Arsenic	0.05	0.1	--	41
Barium	2.0	--	--	--
Beryllium	0.004	--	--	--
Cadmium	0.005	1.0	--	39
Chromium (Total)	0.1	0.25	--	--
Chromium VI	--	1.0	--	--
Copper	--	0.05	--	1,500
Lead	0.05	0.5	--	300
Mercury	0.002	0.1	--	17
Nickel	0.1	0.25	--	420
Selenium	0.05	--	--	100
Silver	--	13	--	--
Thallium	0.002	--	--	--
Zinc	--	0.08	--	2,800
Volatile Organics (mg/L)				
1,1-Dichloroethane	--	--	1.685	--
1,1-Dichloroethene	0.007	--	0.016	--
1,2-Dichloroethane	0.005	--	0.168	--
1,2-Dichlorobenzene	0.6	0.23	--	--
1,2-Dichloropropane	0.005	--	4.289	--
1,3-Dichlorobenzene	--	5.0	--	--
1,4-Dichlorobenzene	0.075	1.4	--	--
1,1,1-Trichloroethane	0.2	--	2.759	--
1,1,2-Trichloroethane	0.005	--	1.601	--
1,1,2,2-Tetrachloroethane	--	--	1.847	--
2-Butanone	--	--	--	--
Acrolein	--	--	0.047	--
Acrylonitrile	--	5.0	4.822	--
Benzene	0.005	100	0.014	--
Bromomethane	--	--	0.305	--
Bromoform	--	--	0.227	--
Carbon tetrachloride	0.005	2.9	0.011	--
Chlorobenzene	0.1	0.96	2.29	--
Chloroethane	--	--	5.88	--
Chloroform	--	1.0	0.06	--
Chloromethane	--	3.3	0.557	--
cis-1,2-Dichloroethene	0.07	--	--	--
Ethylbenzene	0.7	200	1.659	--
Methylene chloride	0.005	--	4.139	--
Styrene	0.1	--	--	--
Tetrachloroethene	0.005	20	0.945	--
Toluene	1.0	200	2.075	--
trans-1,2-Dichloroethene	0.1	--	2.040	--
Trichloroethene	0.005	1.0	0.026	--

Table B-2
Local Limits Update
Operational and Sludge Criteria

Potential Pollutants of Concern	Effluent Criteria	Inhibition Level	H&S Level	Biosolids Criteria (mg/kg)
Trihalomethanes	0.1	--	--	--
Vinyl chloride	0.002	--	0.012	--
Xylenes (total)	10	--	--	--
Semivolatile Organics (mg/L)				
1,2,4-Trichlorobenzene	0.07	--	--	--
1,2-Diphenylhydrazine	--	5.0	--	--
2-Chlorophenol	--	5.0	--	--
2,4-Dichlorophenol	--	64	--	--
2,4-Dimethylphenol	--	40	--	--
2,4-Dinitrophenol	--	150	--	--
2,4-Dinitrotoluene	--	5.0	--	--
2,4,6-Trichlorophenol	--	50	--	--
Anthracene	--	500	--	--
Hexachlorobenzene	0.001	5.0	--	--
Hexachlorocyclopentadiene	0.05	--	--	--
Naphthalene	--	500	--	--
Nitrobenzene	--	30	--	--
Pentachlorophenol		0.2	--	--
Phenanthrene	--	500	--	--
Phenol	--	4.0	--	--
General Chemistry Parameters (mg/L)				
Ammonia	--	480	--	--
Cyanide	--	0.1	--	--
Cyanide, Free	0.2	--	--	--
Fluoride	4.0	--	--	--
Nitrate - Nitrite	10	--	--	--
Nitrogen, Total (NO2 + NO3 + TKN)	10	--	--	--
Total Kjeldahl Nitrogen	10	--	--	--
Sulfide (total)	--	25	--	--
Microbiological Parameters (CFU/100 ml)				
Fecal Coliform single sample max	800	--	--	--
Fecal Coliform four of last seven samples	200	--	--	--

Notes:
Effluent Criteria = Most stringent criteria from the APP permits
Inhibition Level = Most stringent inhibition level for activated sludge,nitrification, and anaerobic digestion processes listed in 2004 USEPA Guidance, Appendix G
H & S Level = Most stringent criteria between explosivity and fume toxicity levels listed in 2004 USEPA Guidance, Appendix I
Biosolids Criteria = Monthly average pollutant concentration listed in Appendix E of 2004 USEPA Guidance
Trihalomethanes = Sum of bromoform, chloroform, bromodichloromethane, and dibromochloromethane
-- = No applicable criteria
mg/L = milligram per liter
Units for microbiological parameters are CFU/100 ml (colony forming uniter per 100 millileters)

Table A-3
Local Limits Report Addendum
Pollutants of Concern

Potential Pollutants of Concern	Max Influent Conc. (mg/L)	Max Effluent Conc. (mg/L)	Max Sludge Conc. (mg/kg)	Criteria: Effluent Criteria (mg/L)	Criteria: Inhibition Level (mg/L)	Criteria: H&S Level (mg/L)	Criteria: Biosolids Criteria (mg/kg)	Pollutants of Concern Screening: Effluent > 1/2 Effluent Criteria	Pollutants of Concern Screening: Influent > Effluent Criteria	Pollutants of Concern Screening: Influent > 1/4 Inhibition Level	Pollutants of Concern Screening: Influent > H & S Level	Pollutants of Concern Screening: Influent >1/500th Biosolids Criteria	Pollutants of Concern Screening: Sludge > Biosolids Criteria	Pollutants of Concern
Inorganics														
Antimony	NA	NA	NA	0.006	--	--	--	--	--	--	--	--	--	--
Arsenic	0.0088	0.0073	13	0.05	0.1	--	41	N	N	N	--	N	N	N
Barium	NA	NA	NA	2.0	--	--	--	--	--	--	--	--	--	--
Beryllium	NA	NA	NA	0.004	--	--	--	--	--	--	--	--	--	--
Cadmium	0.00041	ND	1.6	0.005	1.0	--	39	N	N	N	--	N	N	N
Chromium	0.0093	0.0016	130	0.1	0.25	--	--	N	N	N	--	--	N	N
Chromium VI	0.006	0.005	ND	--	1.0	--	--	--	--	N	--	--	--	N
Copper	0.12	0.0068	5600	--	0.05	--	1500	--	--	**Y**	--	N	--	**Y**
Lead	0.0095	0.001	430	0.05	0.5	--	300	N	N	N	--	N	**Y**	**Y**
Mercury	0.0018	0.00022	5.9	0.002	0.1	--	17	N	N	N	--	N	**Y**	**Y**
Nickel	0.0074	0.0048	210	0.1	0.25	--	420	N	N	N	--	N	--	N
Selenium	0.0051	0.0022	8.2	0.05	--	--	100	N	N	--	--	N	N	N
Silver	0.0042	ND	13	--	13	--	--	--	--	N	--	--	N	N
Thallium	NA	NA	NA	0.002	--	--	--	--	--	--	--	--	--	--
Zinc	0.16	0.059	7500	--	0.08	--	2,800	--	--	**Y**	--	N	--	**Y**
Volatile Organics														
1,1,1-Trichloroethane	ND	ND	ND	0.2	--	2.759	--	N	N	--	N	--	--	N
1,1,2,2-Tetrachloroethane	NA	NA	ND	--	--	1.847	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	NA	NA	44	0.005	--	1.601	--	--	--	--	--	--	--	--
1,1-Dichloroethane	NA	NA	ND	--	--	1.685	--	--	--	--	--	--	--	--
1,1-Dichloroethene	NA	NA	ND	0.007	--	0.016	--	--	--	--	--	--	N	N
1,2-Dichlorobenzene	NA	NA	ND	0.6	0.23	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	NA	NA	ND	0.005	--	0.168	--	--	--	--	--	--	N	N
1,2-Dichloropropane	NA	NA	ND	0.005	--	4.289	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	NA	NA	0.44	--	5.0	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	0.00022	ND	0.46	0.075	1.4	--	--	N	N	N	--	--	N	N
Acrolein	NA	NA	NA	--	--	0.047	--	--	--	--	--	--	--	--
Acrylonitrile	NA	NA	NA	--	5.0	4.822	--	--	--	--	--	--	--	--
Benzene	ND	ND	ND	0.005	100	0.014	--	N	N	N	N	--	N	N
Bromodichloromethane	ND	0.0005	ND	--	--	--	--	--	--	--	--	--	--	N
Bromoform	ND	ND	ND	--	--	0.227	--	--	--	--	N	--	--	N
Bromomethane	NA	NA	20	--	--	0.305	--	--	--	--	--	--	--	--
Carbon tetrachloride	ND	ND	ND	0.005	2.9	0.011	--	N	N	N	N	--	N	N
Chlorobenzene	NA	NA	ND	0.1	0.96	2.29	--	--	--	--	--	--	N	N
Chloroethane	NA	NA	ND	--	--	5.88	--	--	--	--	--	--	--	--
Chloroform	0.00039	0.0012	ND	--	1.0	0.06	--	--	--	N	N	--	N	N
Chloromethane	NA	NA	ND	--	3.3	0.557	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	NA	NA	4.8	0.07	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	0.0004	0.00042	ND	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ND	ND	ND	0.7	200	1.659	--	N	N	N	N	--	--	N
Methylene Chloride	0.0015	ND	ND	0.005	--	4.139	--	N	N	--	N	--	--	N
Styrene	NA	NA	ND	0.1	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	ND	ND	ND	0.005	20	0.945	--	N	N	N	N	--	N	N
Toluene	0.0011	0.0014	6.6	1.0	200	2.075	--	N	N	N	N	--	--	N
Total THMs	0.00079	0.00212	ND	0.1	--	--	--	N	N	--	--	--	--	N

Table A-3
Local Limits Report Addendum
Pollutants of Concern

Potential Pollutants of Concern	Max Influent Conc. (mg/L)	Max Effluent Conc. (mg/L)	Max Sludge Conc. (mg/kg)	Criteria: Effluent Criteria (mg/L)	Criteria: Inhibition Level (mg/L)	Criteria: H&S Level (mg/L)	Criteria: Biosolids Criteria (mg/kg)	Pollutants of Concern Screening: Effluent > 1/2 Effluent Criteria	Pollutants of Concern Screening: Influent > Effluent Criteria	Pollutants of Concern Screening: Influent > 1/4 Inhibition Level	Pollutants of Concern Screening: Influent > H & S Level	Pollutants of Concern Screening: Influent >1/500th Biosolids Criteria	Pollutants of Concern Screening: Sludge > Biosolids Criteria	Pollutants of Concern
trans-1,2-Dichloroethene	NA	NA	ND	0.1	--	2.04	--	--	--	--	--	--	--	--
Trichloroethene	ND	ND	ND	0.005	1.0	0.026	--	N	N	N	N	--	N	N
Vinyl chloride	ND	ND	ND	0.002	--	0.012	--	N	N	--	N	--	N	N
Xylenes (total)	ND	ND	ND	10	--	--	--	N	N	--	--	--	--	N
Semivolatile Organics														
1,2,4-Trichlorobenzene	NA	NA	ND	0.07	--	--	--	--	--	--	--	--	--	--
1,2-Diphenylhydrazine	NA	NA	ND	--	5.0	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	NA	NA	ND	--	50	--	--	--	--	--	--	--	N	N
2,4-Dichlorophenol	NA	NA	ND	--	64	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	NA	NA	ND	--	40	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	NA	NA	ND	--	150	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	NA	NA	ND	--	5.0	--	--	--	--	--	--	--	N	N
2-Chlorophenol	NA	NA	ND	--	5.0	--	--	--	--	--	--	--	--	--
Anthracene	NA	NA	ND	--	500	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	NA	NA	ND	0.0002	--	--	--	--	--	--	--	--	--	--
Di(2-ethylhexyl)adipate	NA	NA	NA	0.4	--	--	--	--	--	--	--	--	--	--
Di(2-ethylhexyl)phthalate	0.019	ND	ND	0.4	--	--	--	N	N	--	--	--	--	N
Di-n-butyl phthalate	NA	NA	ND	0.006	--	--	--	N	N	--	--	--	--	N
Hexachlorobenzene	ND	ND	ND	0.001	5.0	--	--	N	N	N	--	--	N	N
Hexachlorocyclopentadiene	NA	NA	ND	0.05	--	--	--	--	--	--	--	--	--	--
Naphthalene	ND	ND	12	--	500	--	--	--	--	N	--	--	--	N
Nitrobenzene	NA	NA	ND	--	30	--	--	--	--	--	--	--	N	N
Pentachlorophenol	ND	ND	ND	--	0.2	--	--	--	--	N	--	--	N	N
Phenanthrene	ND	ND	ND	--	500	--	--	--	--	N	--	--	--	N
General Chemistry Parameters														
Ammonia as N	72.9	1.72	59000	--	480	--	--	--	--	N	--	--	--	N
Cyanide, Total	0.0034	0.009	1.3	0.2*	0.1	--	--	N	N	N	--	--	--	N
Fluoride	4.1	3.7	460	4.0	--	--	--	**Y**	**Y**	--	--	--	--	**Y**
Nitrate + Nitrite as N	1.23	8.04	1340**	10	--	--	--	**Y**	N	--	--	--	--	**Y**
Total Nitrogen	45.6	9.4	NA	10	--	--	--	**Y**	**Y**	--	--	--	--	**Y**
Total Kjeldahl Nitrogen	43.0	3.4	59000	10	--	--	--	N	**Y**	--	--	--	--	**Y**
Phenols	0.081	0.041	NA	--	4.0	--	--	--	--	N	--	--	--	N
Sulfide	350	9.0	140	--	25	--	--	--	--	N	--	--	--	N

Notes:
POC screening was performed only for those pollutants with at least two samples collecte
Trihalomethanes = Sum of bromoform, chloroform, bromodichloromethane, and dibromochloromethane
ND - Not detected above the reporting limit
NA = Not analyzed for
-- = No applicable criteria
*Effluent criteria for cyanide is listed as free cyanide
** Sludge Nitrate+Nitrite is sum of individual nitrate and nitrite concentration
N = Not a POC based on screening criteria
Y = Determined to be a POC based on screening criteria (highlighted cells)

Appendix C

Removal Efficiencies

Table C-1
Local Limits Update
Airport WRF Removal Efficiencies

Arsenic			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0065	0.0064	1.5
4/22/2010	0.0069	0.006	13.0
4/23/2010	0.0066	0.006	9.1
4/24/2010	0.0066	0.0058	12.1
4/26/2010	0.0066	0.0058	12.1
4/27/2010	0.0071	0.0059	16.9
4/28/2010	0.0065	0.006	7.7
MRE:	0.0067	0.0060	10.5

Cadmium			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0001 J	0.005	NC
4/22/2010	0.0002 J	0.005	NC
4/23/2010	0.00011 J	0.005	NC
4/24/2010	0.005	0.005	NC
4/26/2010	0.005	0.005	NC
4/27/2010	0.005	0.005	NC
4/28/2010	0.00009 J	0.005	NC
MRE:	0.00220	0.00500	NC

Chromium			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0066	0.0016	75.8
4/22/2010	0.0069	0.0014	79.7
4/23/2010	0.007	0.0012	82.9
4/24/2010	0.0091	0.0012	86.8
4/26/2010	0.0067	0.0015	77.6
4/27/2010	0.0064	0.0011	82.8
4/28/2010	0.0066	0.00097	85.3
MRE:	0.0070	0.0013	81.8

Chromium VI			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.006 J	0.004 J	NC
4/22/2010	0.005	0.005	NC
4/23/2010	0.005	0.005	NC
4/24/2010	0.005	0.005	NC
4/26/2010	0.002 J	0.005	NC
4/27/2010	0.005	0.005	NC
4/28/2010	0.005	0.005	NC
MRE:	0.0047	0.0049	NC

Copper			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.018	0.0028	84.4
4/22/2010	0.037	0.0044	88.1
4/23/2010	0.037	0.0026	93.0
4/24/2010	0.032	0.0027	91.6
4/26/2010	0.028	0.0042	85.0
4/27/2010	0.053	0.0034	93.6
4/28/2010	0.039	0.0035	91.0
MRE:	0.035	0.003	90.3

Lead			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0011	0.00086 J	21.8
4/22/2010	0.0015	0.00087 J	42.0
4/23/2010	0.0014	0.0008 J	42.9
4/24/2010	0.0025	0.0007 J	72.0
4/26/2010	0.0013	0.001	23.1
4/27/2010	0.002	0.001	50.0
4/28/2010	0.0019	0.00089 J	53.2
MRE:	0.0017	0.0009	47.7

Mercury			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0001	0.0001	NC
4/22/2010	0.00015 J	0.00022	NC
4/23/2010	0.0001	0.0001	NC
4/24/2010	0.0018 J	0.0001	NC
4/26/2010	0.0001	0.00009 J	NC
4/27/2010	0.0001	0.0001	NC
4/28/2010	0.0001	0.0001	NC
MRE:	0.00035	0.00012	NC

Molybdenum			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0014	0.0014	0.0
4/22/2010	0.002	0.0013	35.0
4/23/2010	0.0019	0.0012	36.8
4/24/2010	0.0018	0.0011	38.9
4/26/2010	0.0017	0.0012	29.4
4/27/2010	0.0012	0.001	16.7
4/28/2010	0.0018	0.00099 J	45.0
MRE:	0.0017	0.0012	28.8

Table C-1
Local Limits Update
Airport WRF Removal Efficiencies

Nickel			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0038	0.0026	31.6
4/22/2010	0.0051	0.0036	29.4
4/23/2010	0.0048	0.0024	50.0
4/24/2010	0.013	0.0029	77.7
4/26/2010	0.0036	0.0031	13.9
4/27/2010	0.0053	0.0027	49.1
4/28/2010	0.0074	0.0029	60.8
MRE:	0.0061	0.0029	53.0

Selenium			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0024	0.0022	8.3
4/22/2010	0.001	0.001	NC
4/23/2010	0.001	0.001	NC
4/24/2010	0.001	0.001	NC
4/26/2010	0.001	0.001	NC
4/27/2010	0.001	0.001	NC
4/28/2010	0.001	0.001	NC
MRE:	0.0012	0.0012	2.4

Silver			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.00017 J	0.0005	NC
4/22/2010	0.00042 J	0.0005	NC
4/23/2010	0.00059 J	0.0005	NC
4/24/2010	0.00038 J	0.0005	NC
4/26/2010	0.00026 J	0.0005	NC
4/27/2010	0.00025 J	0.0005	NC
4/28/2010	0.0042	0.0005	88.1
MRE:	0.0009	0.0005	44.4

Zinc			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.12	0.045	62.5
4/22/2010	0.12	0.059	50.8
4/23/2010	0.1	0.046	54.0
4/24/2010	0.093	0.043	53.8
4/26/2010	0.085	0.049	42.4
4/27/2010	0.11	0.05	54.5
4/28/2010	0.11	0.051	53.6
MRE:	0.105	0.049	53.5

Fluoride			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	4	3.2	20.0
4/22/2010	2.8	3.5	-25.0
4/23/2010	4.1	3.4	17.1
4/24/2010	4	3.7	7.5
4/26/2010	1.8	3.1	-72.2
4/27/2010	3.2	3.1	3.1
4/28/2010	3.2	2.8	12.5
MRE:	3.3	3.3	1.3

Cyanide			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.00017 J	0.0005	NC
4/22/2010	0.00042 J	0.0005	NC
4/23/2010	0.00059 J	0.0005	NC
4/24/2010	0.00038 J	0.0005	NC
4/26/2010	0.00026 J	0.0005	NC
4/27/2010	0.00025 J	0.0005	NC
4/28/2010	0.0042	0.0005	88.1
MRE:	0.0009	0.0005	44.4

Phenols			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.05	0.05	NC
4/22/2010	0.05	0.05	NC
4/23/2010	0.045 J	0.05	NC
4/24/2010	0.05	0.05	NC
4/26/2010	0.081 J	0.041 J	NC
4/27/2010	0.05	0.05	NC
4/28/2010	0.053 J	0.05	NC
MRE:	0.054	0.049	9.3

Notes: mg/L = milligrams per liter; MRE = Mean Removal Efficiency; RE = Plant removal efficiency from headworks to effluent; Highlighted cells represent non-detected results that were substitituted with 1/2 the reporting limit

Table C-2
Local Limits Update
Sundog WWTP Removal Efficiencies

Arsenic			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0076	0.0072	5.3
4/22/2010	0.0088	0.0069	21.6
4/23/2010	0.0078	0.0071	9.0
4/24/2010	0.0079	0.0069	12.7
4/26/2010	0.008	0.007	12.5
4/27/2010	0.0088	0.0073	17.0
4/28/2010	0.008	0.007	12.5
MRE:	0.0081	0.0071	13.2

Cadmium			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.00011 J	0.0005	NC
4/22/2010	0.00033 J	0.0005	NC
4/23/2010	0.00013 J	0.0005	NC
4/24/2010	0.00033 J	0.0005	NC
4/26/2010	0.00041 J	0.0005	NC
4/27/2010	0.00019 J	0.0005	NC
4/28/2010	0.00016 J	0.0005	NC
MRE:	0.00023	0.00050	NC

Chromium			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0057	0.0014	75.4
4/22/2010	0.0093	0.0013	86.0
4/23/2010	0.007	0.0012	82.9
4/24/2010	0.0076	0.0011	85.5
4/26/2010	0.008	0.0014	82.5
4/27/2010	0.0081	0.00094 J	88.4
4/28/2010	0.0079	0.00088 J	88.9
MRE:	0.0077	0.0012	84.3

Chromium VI			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.005 J	0.005	NC
4/22/2010	0.005	0.005	NC
4/23/2010	0.005	0.005	NC
4/24/2010	0.005	0.005	NC
4/26/2010	0.003 J	0.005	NC
4/27/2010	0.005	0.005	NC
4/28/2010	0.005	0.005	NC
MRE:	0.0047	0.0049	NC

Copper			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.047	0.0064	86.4
4/22/2010	0.12	0.019	84.2
4/23/2010	0.039	0.0058	85.1
4/24/2010	0.061	0.0062	89.8
4/26/2010	0.048	0.0068	85.8
4/27/2010	0.088	0.0062	93.0
4/28/2010	0.056	0.0066	88.2
MRE:	0.066	0.008	87.6

Lead			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0095	0.00034 J	96.4
4/22/2010	0.0039	0.00056 J	85.6
4/23/2010	0.002	0.00044 J	78.0
4/24/2010	0.0019	0.00032 J	83.2
4/26/2010	0.0018	0.00074 J	58.9
4/27/2010	0.0023	0.00031 J	86.5
4/28/2010	0.0023	0.00026 J	88.7
MRE:	0.0034	0.0004	88.2

Mercury			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0001	0.0001	NC
4/22/2010	0.00016 J	0.00014 J	NC
4/23/2010	0.0001	0.0001	NC
4/24/2010	0.0001	0.0001	NC
4/26/2010	0.0001	0.0001	NC
4/27/2010	0.0001	0.0001	NC
4/28/2010	0.0001	0.0001	NC
MRE:	0.00011	0.00011	NC

Molybdenum			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0035	0.0046	-31.4
4/22/2010	0.01	0.0061	39.0
4/23/2010	0.012	0.0074	38.3
4/24/2010	0.0077	0.0074	3.9
4/26/2010	0.0026	0.0051	-96.2
4/27/2010	0.0055	0.0038	30.9
4/28/2010	0.0056	0.0045	45.0
MRE:	0.0067	0.0056	17.1

Table C-2
Local Limits Update
Sundog WWTP Removal Efficiencies

Nickel			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0054	0.0032	40.7
4/22/2010	0.0065	0.0048	26.2
4/23/2010	0.004	0.003	25.0
4/24/2010	0.0043	0.0026	39.5
4/26/2010	0.0041	0.0028	31.7
4/27/2010	0.0044	0.0025	43.2
4/28/2010	0.0043	0.0024	44.2
MRE:	0.0047	0.0030	35.5

Selenium			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0021	0.001	52.4
4/22/2010	0.0051	0.001	80.4
4/23/2010	0.001	0.001	NC
4/24/2010	0.001	0.001	NC
4/26/2010	0.001	0.001	NC
4/27/2010	0.001	0.001	NC
4/28/2010	0.001	0.001	NC
MRE:	0.0017	0.0010	42.6

Silver			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0011	0.0005	54.5
4/22/2010	0.0016	0.0005	68.8
4/23/2010	0.0014	0.0005	64.3
4/24/2010	0.0012	0.0005	58.3
4/26/2010	0.0011	0.0005	54.5
4/27/2010	0.002	0.0005	75.0
4/28/2010	0.0017	0.0005	70.6
MRE:	0.0014	0.0005	65.3

Zinc			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.15	0.047	68.7
4/22/2010	0.16	0.05	68.8
4/23/2010	0.1	0.048	52.0
4/24/2010	0.12	0.046	61.7
4/26/2010	0.12	0.049	59.2
4/27/2010	0.16	0.05	68.8
4/28/2010	0.15	0.05	66.7
MRE:	0.137	0.049	64.6

Fluoride			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.27 J	0.3 J	NC
4/22/2010	0.32 J	0.35 J	NC
4/23/2010	0.35 J	0.35 J	NC
4/24/2010	0.32 J	0.36 J	NC
4/26/2010	0.31 J	0.36 J	NC
4/27/2010	0.33 J	0.36 J	NC
4/28/2010	0.43	0.37 J	14.0
MRE:	0.33	0.35	NC

Cyanide			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.0025	0.0028 J	NC
4/22/2010	0.0025	0.006	NC
4/23/2010	0.0025	0.002 J	NC
4/24/2010	0.0025	0.0072	NC
4/26/2010	0.0025	0.008	NC
4/27/2010	0.0025	0.0083	NC
4/28/2010	0.0014 J	0.012	NC
MRE:	0.0023	0.0066	NC

Phenols			
Date Collected	Influent (mg/L)	Effluent (mg/L)	RE (%)
4/21/2010	0.038 J	0.05	NC
4/22/2010	0.05	0.05	NC
4/23/2010	0.038 J	0.05	NC
4/24/2010	0.037 J	0.05	NC
4/26/2010	0.039 J	0.05	NC
4/27/2010	0.038 J	0.05	NC
4/28/2010	0.048 J	0.05	NC
MRE:	0.036	0.050	NC

Notes: mg/L = milligrams per liter; MRE = Mean Removal Efficiency; RE = Plant removal efficiency from headworks to effluent; Highlighted cells represent non-detected results that were substitituted with 1/2 the reporting limit