

City of San Diego

Annual Report 2006 - North City Water Reclamation Plant - Reclaimed Water - Annual & Monthly Averages

North City Water Reclamation Plant Annual Monitoring Report

2006

NCWRP (N34-REC) Reclaimed Water

Month	Biochemical Oxygen Demand (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	pH Grab (pH)	Turbidity (NTU)
JAN	ND	984	ND	ND	7.39	0.80
FEB	<2	910	ND	ND	7.55	0.91
MAR	<2	895	ND	ND	7.55	0.98
APR	<2	935	ND	ND	7.36	0.91
MAY	<2	997	<1.6	<1.6	7.27	1.58
JUN	<2	1020	<1.6	<1.6	7.41	0.99
JUL	<2	985	<1.6	ND	7.23	0.63
AUG	<2	964	<1.6	ND	7.35	0.84
SEP	<2	921	ND	ND	7.3	0.54
OCT	<2	933	ND	ND	7.43	0.55
NOV	<2	895	ND	ND	7.34	0.72
DEC	<2	865	ND	ND	7.36	0.78
Average	ND	942	ND	ND	7.38	0.85

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Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL and Units:	34 UG/L	2.9 UG/L	0.4 UG/L	0.039 UG/L	0.022 UG/L	1.7 UG/L
Limit:	1000	6	50	1000	4	700
=====	=====	=====	=====	=====	=====	=====
JANUARY -2006	30	ND	1.06	68.1	ND	409
FEBRUARY -2006	205	ND	0.64	66.8	ND	346
MARCH -2006	148	ND	0.86	54.1	ND	388
APRIL -2006	261	ND	0.48	50.0	ND	359
MAY -2006	397	ND	0.61	43.9	ND	304
JUNE -2006	159	ND	0.52	67.0	ND	320
JULY -2006	168	ND	0.86	36.0	ND	445
AUGUST -2006	171	ND	0.60	38.5	ND	372
SEPTEMBER-2006	131	ND	0.43	38.2	ND	433
OCTOBER -2006	173	ND	0.94	50.5	ND	386
NOVEMBER -2006	52	ND	0.95	37.9	ND	314
DECEMBER -2006	56	ND	0.69	21.8	ND	322
=====	=====	=====	=====	=====	=====	=====
Annual Average:	163	ND	0.72	47.7	ND	367

Analyte:	Cadmium	Chromium	Copper	Iron	Manganese	Mercury
MDL and Units:	0.53 UG/L	1.2 UG/L	0.63 UG/L	37 UG/L	0.24 UG/L	0.09 UG/L
Limit:	5	50		300	50	2
=====	=====	=====	=====	=====	=====	=====
JANUARY -2006	ND	0.7	19.1	28	86	ND
FEBRUARY -2006	ND	1.1	9.5	106	126	ND
MARCH -2006	ND	ND	17.5	66	132	ND
APRIL -2006	ND	ND	13.1	137	148	ND
MAY -2006	ND	0.3	19.0	148	126	ND
JUNE -2006	ND	0.7	15.2	70	152	ND
JULY -2006	ND	ND	13.9	115	194	ND
AUGUST -2006	ND	0.6	6.9	67	153	ND
SEPTEMBER-2006	ND	0.7	18.8	131	179	ND
OCTOBER -2006	0.2	ND	12.6	107	100	ND
NOVEMBER -2006	ND	ND	11.2	40	54	ND
DECEMBER -2006	ND	7.4	13.8	133	111	ND
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.0	1.0	14.2	96	130	ND

Analyte:	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL and Units:	0.53 UG/L	0.28 UG/L	3.9 UG/L	7 MG/L	.05 MG/L	9 MG/L
Limit:	100	50	2	300	1	300
=====	=====	=====	=====	=====	=====	=====
JANUARY -2006	6.2	0.87	ND	298	ND	252
FEBRUARY -2006	5.6	0.93	ND	259	0.4	230
MARCH -2006	7.0	0.69	ND	226	0.4	191
APRIL -2006	5.6	0.75	ND	264	0.4	219
MAY -2006	3.7	0.85	ND	335	0.4	229
JUNE -2006	3.9	0.92	ND	265	0.4	211
JULY -2006	7.5	0.67	ND	245	0.2	188
AUGUST -2006	6.5	0.83	ND	253	0.4	207
SEPTEMBER-2006	5.7	0.68	5	263	0.3	195
OCTOBER -2006	3.8	0.55	ND	262	0.5	212
NOVEMBER -2006	5.0	0.49	ND	243	0.4	183
DECEMBER -2006	16.8	0.44	ND	280	0.4	161
=====	=====	=====	=====	=====	=====	=====
Annual Average:	6.4	0.72	0	266	0.4	207

ND= Not Detected
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MDL's listed are from December 2006 analysis

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Analyte:	Total Cyanides	MBAS Surfactants	Total Organic Carbon	Percent Sodium	Adjusted Sodium Adsorption	Calcium
MDL and Units:	.002 MG/L	.03 MG/L	0.30 MG/L	Calculated	Calculated	0.04 MG/L
Limit:	0.2				6	
JANUARY -2006	0.0103	0.17	8.0	53	5.4	99.0
FEBRUARY -2006	0.0039	0.13	7.5	58	5.6	77.3
MARCH -2006	0.0178	0.16	10.1	59	4.0	48.9
APRIL -2006	0.0219	0.18	11.3	56	5.0	63.9
MAY -2006	0.0187	0.35	11.6	62	6.6	75.8
JUNE -2006	0.0071	0.11	9.6	57	4.3	59.6
JULY -2006	0.0134	0.17	8.5	60	5.0	54.2
AUGUST -2006	0.0150	0.17	7.9	57	4.8	67.7
SEPTEMBER-2006	0.0142	0.25	8.5	64	5.8	53.9
OCTOBER -2006	0.0096	0.17	9.2	58	5.2	63.2
NOVEMBER -2006	0.0111	0.17	8.4	60	4.7	47.3
DECEMBER -2006	0.0042	0.14	9.0	64	5.8	52.5
Annual Average:	0.0123	0.18	9.1	59	5.2	63.6

Analyte:	Magnesium	Potassium	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness
MDL and Units:	0.1 MG/L	0.3 MG/L	1 MG/L	0.2 MG/L	0.08 MG/L	0.22 MG/L
Limit:						
JANUARY -2006	45.1	15.9	238	248	185	433
FEBRUARY -2006	34.0	14.2	226	193	139	332
MARCH -2006	23.8	10.2	152	122	98	220
APRIL -2006	31.5	14.4	178	160	129	289
MAY -2006	37.2	18.4	275	190	153	343
JUNE -2006	25.5	15.1	165	149	105	254
JULY -2006	24.8	13.6	174	136	102	238
AUGUST -2006	31.4	15.6	192	169	129	298
SEPTEMBER-2006	26.0	13.8	207	135	107	242
OCTOBER -2006	30.1	15.9	192	158	123	281
NOVEMBER -2006	22.6	12.5	154	118	93	211
DECEMBER -2006	24.2	15.4	201	131	99	230
Annual Average:	29.7	14.6	196	159	122	281

Analyte	Total Dissolved Solids	Lithium	Cobalt	Molybdenum	Vanadium	Nitrate
MDL and Units:	42 MG/L	.002 MG/L	0.85 UG/L	0.12 UG/L	0.48 UG/L	0.04 MG/L
Limit:	1200					
JANUARY -2006	981	0.04	0.82	6.1	0.8	21.5
FEBRUARY -2006	910	0.04	0.74	6.5	0.9	40.8
MARCH -2006	895	0.03	1.16	6.6	1.2	7.3
APRIL -2006	935	0.03	0.29	8.5	0.7	15.3
MAY -2006	997	0.04	0.96	5.6	1.0	35.7
JUNE -2006	1020	0.02	0.58	6.1	ND	39.9
JULY -2006	985	0.04	0.49	6.3	0.5	37.3
AUGUST -2006	964	0.04	0.92	5.4	1.0	36.9
SEPTEMBER-2006	921	0.04	1.38	15.6	1.1	27.9
OCTOBER -2006	933	0.04	ND	7.3	ND	38.0
NOVEMBER -2006	895	0.03	0.30	5.0	ND	37.0
DECEMBER -2006	865	0.03	1.55	5.4	ND	25.0
Annual Average:	942	0.04	0.766	7.03	0.600	30.2

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Analyte:	Ortho	Total
	Phosphate	Alkalinity
MDL and Units:	0.2 MG/L	1.5 MG/L
Limit:		
=====	=====	=====
JANUARY -2006	3.57	135
FEBRUARY -2006	3.89	120
MARCH -2006	1.54	188
APRIL -2006	1.74	173
MAY -2006	5.84	138
JUNE -2006	6.25	109
JULY -2006	3.01	120
AUGUST -2006	2.43	118
SEPTEMBER-2006	3.00	122
OCTOBER -2006	6.20	122
NOVEMBER -2006	5.10	118
DECEMBER -2006	5.23	117
=====	=====	=====
Annual Average:	3.98	132

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