

## City of San Diego

### Annual Report 2004 - North City Water Reclamation Plant - Reclaimed Water - Annual & Monthly Averages

North City Water Reclamation Plant  
Annual Monitoring Report  
2004

#### NCWRP (N34-REC) Reclaimed Water

Month	Monthly Averages					pH Grab (pH)	Turbidity † (NTU)
	Biochemical Oxygen Demand (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)			
JAN	ND	913	ND	ND		7.45	1.09
FEB	<2	886	ND	ND		7.51	0.724
MAR	ND	901	ND	ND		7.52	0.766
APR	<2	917	<1.6	ND		7.52	1.29
MAY	<2	906	ND	ND		7.45	1.44
JUN	ND	967	ND	ND		7.45	1.6
JUL	ND	940	<1.6	ND		7.47	NS
AUG	<2	970	<1.6	ND		7.36	NS
SEP	<2	925	<1.6	ND		7.4	NS
OCT	<2	978	ND	ND		7.38	NS
NOV	<2	1040	ND	ND		7.54	NS
DEC	ND	958	<1.6	<1.6		7.59	NS
Average	<2	942	<1.6	<1.6		7.47	1.2

† Not used for compliance determination. The turbidity values here are from laboratory analysis of 24 hour composite sample after the turbidity was raised by the addition of sodium hypochlorite.

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Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL and Units:	50 UG/L	23 UG/L	0.4 UG/L	10 UG/L	0.39 UG/L	15 UG/L
Limit:	1000	6	50	1000	4	700
=====	=====	=====	=====	=====	=====	=====
JANUARY -2004	205	ND	0.61	57	ND	447
FEBRUARY -2004	ND	ND	ND	48	ND	382
MARCH -2004	ND	ND	0.77	46	ND	359
APRIL -2004	ND	ND	0.86	51	ND	394
MAY -2004	ND	33	0.80	43	ND	420
JUNE -2004	43	ND	0.44	22	ND	371
JULY -2004	51	ND	0.54	24	ND	362
AUGUST -2004	ND	2	ND	20	ND	381
SEPTEMBER-2004	75	2	0.70	24	ND	367
OCTOBER -2004	97	ND	0.79	22	ND	368
NOVEMBER -2004	NS	NS	NS	NS	NS	NS
DECEMBER -2004	ND	ND	0.64	65	ND	251
=====	=====	=====	=====	=====	=====	=====
Annual Average:	43	3	0.56	38	ND	373

Analyte:	Cadmium	Chromium	Copper	Iron	Manganese	Mercury
MDL and Units:	1 UG/L	5 UG/L	4 UG/L	30 UG/L	4 UG/L	0.5 UG/L
Limit:	5	50		300	50	2
=====	=====	=====	=====	=====	=====	=====
JANUARY -2004	ND	ND	26	207	61	ND
FEBRUARY -2004	ND	5.6	25	117	21	ND
MARCH -2004	ND	ND	26	117	20	ND
APRIL -2004	ND	ND	49	241	49	ND
MAY -2004	ND	ND	82	75	72	ND
JUNE -2004	0.2	3.2	113	157	156	0.10
JULY -2004	0.2	1.9	66	232	130	ND
AUGUST -2004	0.4	5.8	47	175	114	ND
SEPTEMBER-2004	0.4	1.0	16	112	126	ND
OCTOBER -2004	0.2	1.5	10	124	152	ND
NOVEMBER -2004	NS	NS	NS	NS	NS	NS
DECEMBER -2004	ND	1.0	25	44	65	ND
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.1	1.8	44	146	88	0.01

Analyte:	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL and Units:	14 UG/L	0.28 UG/L	40 UG/L	7 MG/L	.05 MG/L	0.5 MG/L
Limit:	100	50	2	300	1	300
=====	=====	=====	=====	=====	=====	=====
JANUARY -2004	ND	0.67	ND	237	0.4	228
FEBRUARY -2004	ND	0.65	ND	229	0.4	199
MARCH -2004	ND	0.70	ND	219	0.4	211
APRIL -2004	ND	0.76	ND	230	0.4	203
MAY -2004	ND	0.59	ND	215	0.4	189
JUNE -2004	7	0.60	ND	243	0.4	200
JULY -2004	5	0.55	ND	229	0.3	197
AUGUST -2004	11	0.52	ND	231	0.4	194
SEPTEMBER-2004	6	0.48	ND	221	0.4	195
OCTOBER -2004	8	0.81	ND	241	0.4	190
NOVEMBER -2004	NS	NS	NS	NS	NS	NS
DECEMBER -2004	6	0.88	ND	214	0.4	224
=====	=====	=====	=====	=====	=====	=====
Annual Average:	4	0.66	ND	228	0.4	203

ND= Not Detected

NR= Not Required

NS= No samples obtained for monthly parameters, plant down for reconfiguration.

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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	0.250 MG/L	Calculated	Calculated	.08 MG/L
Limit:	0.2				6	
JANUARY -2004	ND	0.11	8.1*		63	6.6
FEBRUARY -2004	0.0086	0.13	NA		60	5.2
MARCH -2004	ND	0.10	7.6		56	4.9
APRIL -2004	ND	0.14	9.4		58	4.8
MAY -2004	0.0044	0.18	8.1		59	4.9
JUNE -2004	0.0069	0.11	8.7		59	4.9
JULY -2004	0.0129	0.17	8.7		60	5.0
AUGUST -2004	0.0108	0.20	8.5		62	5.2
SEPTEMBER-2004	0.0098	0.15	9.0		60	4.9
OCTOBER -2004	0.0083	0.30	7.7		58	4.7
NOVEMBER -2004	NS	NS	NS		NS	NS
DECEMBER -2004	0.0050	0.12	6.5		52	4.5
Annual Average:	0.0061	0.16	8.2		59	5.1

Analyte:	Magnesium	Potassium	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness
MDL and Units:	.02 MG/L	2 MG/L	.3 MG/L	0.2 MG/L	0.08 MG/L	0.08 MG/L
Limit:						
JANUARY -2004	31.1	14.6	262	185	128	313
FEBRUARY -2004	29.5	10.6	190	165	121	286
MARCH -2004	30.9	12.2	181	169	127	296
APRIL -2004	29.4	15.4	189	160	121	281
MAY -2004	27.3	12.6	177	143	112	255
JUNE -2004	30.8	14.5	193	167	126	293
JULY -2004	28.4	14.3	195	151	116	267
AUGUST -2004	26.2	13.9	198	139	107	246
SEPTEMBER-2004	27.5	14.2	190	148	113	261
OCTOBER -2004	26.8	13.2	183	157	110	267
NOVEMBER -2004	NS	NS	NS	NS	NS	NS
DECEMBER -2004	33.8	12.0	179	200	139	339
Annual Average:	29.2	13.4	194	162	120	282

Analyte:	Total Dissolved Solids	Lithium	Cobalt	Molybdenum	Vanadium
MDL and Units:	42 MG/L	.01 MG/L	4 UG/L	3 UG/L	7 UG/L
Limit:	1200				
JANUARY -2004	913	0.06	ND	NR	NR
FEBRUARY -2004	886	0.04	ND	ND	ND
MARCH -2004	901	0.02	ND	5.9	ND
APRIL -2004	917	0.04	ND	NR	ND
MAY -2004	906	0.05	ND	4.9	ND
JUNE -2004	967	0.05	ND	13.3	0.8
JULY -2004	940	0.03	ND	9.8	0.6
AUGUST -2004	970	0.03	ND	10.3	1.1
SEPTEMBER-2004	925	0.03	ND	10.6	0.9
OCTOBER -2004	978	0.03	ND	8.7	0.9
NOVEMBER -2004	1040	NS	NS	NS	NS
DECEMBER -2004	953	0.04	ND	7.9	0.6
Annual Average:	941.3	0.04	ND	7.93	0.490

ND= Not Detected

NR= Not Required

NS= No samples obtained for monthly parameters, plant down for reconfiguration.

\* = Sample was analyzed out of holding time, is shown for review only, and is not included in averages.