

City of San Diego

Annual Report 2002 - North City Water Reclamation Plant - Reclaimed Water - Annual & Monthly Averages

North City Water Reclamation Plant
Annual Monitoring Report
2002

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	<2	883	ND	ND	7.48	0.841
FEB	<2	882	ND	ND	7.47	1.15
MAR	<2	907	ND	ND	7.42	1.05
APR	<2	911	<1.6	ND	7.48	1.02
MAY	<2	875	ND	ND	7.51	1.18
JUN	<2	837	<1.6	ND	7.62	1.55
JUL	<2	868	<1.6	ND	7.65	1.42
AUG	<2	856	ND	ND	7.56	1.67
SEP	<2	896	ND	ND	7.52	2.01
OCT	<2	963	ND	ND	7.5	1.21
NOV	<2	936	ND	ND	7.6	1.1
DEC	<2	938	ND	ND	7.56	0.927
Average	<2	896	<1.6	ND	7.53	1.26

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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 -2002	77	ND	0.70	44	ND	176
FEBRUARY -2002	143	ND	0.77	44	ND	518
MARCH -2002	84	ND	0.78	45	ND	325
APRIL -2002	139	ND	0.74	46	ND	268
MAY -2002	184	ND	0.87	36	ND	508
JUNE -2002	94	25	ND	36	ND	152
JULY -2002	153	ND	2.14	33	ND	329
AUGUST -2002	378	ND	1.31	57	ND	329
SEPTEMBER-2002	ND	29	1.33	37	ND	487
OCTOBER -2002	ND	ND	0.76	38	ND	436
NOVEMBER -2002	ND	ND	0.83	37	ND	437
DECEMBER -2002	235	ND	0.98	45	ND	323
=====						
Annual Average:	124	5	0.93	42	ND	357

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 -2002	ND	ND	160	44	11	ND
FEBRUARY -2002	<1.0	ND	183	60	30	ND
MARCH -2002	ND	ND	70	68	45	ND
APRIL -2002	ND	ND	69	52	73	ND
MAY -2002	<1.0	ND	75	224	198	ND
JUNE -2002	ND	ND	33	224	141	ND
JULY -2002	ND	<5.0	36	115	73	ND
AUGUST -2002	1.6	ND	130	100	121	ND
SEPTEMBER-2002	ND	ND	141	71	176	ND
OCTOBER -2002	ND	ND	99	ND	36	ND
NOVEMBER -2002	1.5	5.6	69	75	54	ND
DECEMBER -2002	ND	ND	49	79	18	ND
=====						
Annual Average:	0.3	0.5	93	93	81	ND

Analyte:	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL and Units:	14 UG/L	0.28 UG/L	40 UG/L	.8 MG/L	.03 MG/L	0.5 MG/L
Limit:	100	50	2	300	1	300
=====						
JANUARY -2002	ND	0.82	ND	217	0.4	200
FEBRUARY -2002	ND	0.89	ND	215	0.3	196
MARCH -2002	ND	0.90	ND	223	0.4	196
APRIL -2002	ND	0.84	ND	230	0.4	211
MAY -2002	ND	0.86	ND	197	0.4	175
JUNE -2002	ND	3.62	ND	195	0.4	204
JULY -2002	ND	3.17	ND	180	0.3	183
AUGUST -2002	ND	0.87	ND	262	0.4	252
SEPTEMBER-2002	ND	0.68	<40	191	0.4	196
OCTOBER -2002	ND	0.60	ND	216	0.4	189
NOVEMBER -2002	ND	0.64	ND	231	0.4	210
DECEMBER -2002	ND	0.70	ND	225	0.4	219
=====						
Annual Average:	ND	1.22	0	215	0.4	203

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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 -2002	ND	0.17	9.2	60	4.5	62.4
FEBRUARY -2002	0.0140	0.37	9.0	60	4.6	63.8
MARCH -2002	NA	0.23	9.3	60	5.0	64.0
APRIL -2002	0.0118	0.18	8.3	59	4.8	65.2
MAY -2002	0.0030	0.18	8.5	61	4.7	53.8
JUNE -2002	0.0092	0.19	8.2	60	3.9	59.1
JULY -2002	0.0140	0.20	10.3	59	4.3	53.6
AUGUST -2002	0.0107	0.19	9.8	57	4.9	82.6
SEPTEMBER-2002	0.0090	0.21	9.0	60	4.3	58.8
OCTOBER -2002	0.0149	0.25	7.9	56	4.1	57.6
NOVEMBER -2002	0.0125	0.29	10.1	61	4.7	54.6
DECEMBER -2002	0.0072	0.18	7.6	62	5.9	68.3
Annual Average:	0.0097	0.22	8.9	60	4.6	62.0

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 -2002	27.6	15.8	174	156	113	269
FEBRUARY -2002	28.3	16.1	184	160	116	276
MARCH -2002	28.3	14.8	179	160	116	276
APRIL -2002	28.9	13.2	173	163	118	282
MAY -2002	23.7	13.2	160	135	97.2	232
JUNE -2002	24.4	10.1	164	148	100	248
JULY -2002	23.9	10.0	148	134	98.0	232
AUGUST -2002	35.3	17.0	201	207	144	352
SEPTEMBER-2002	26.4	13.8	168	147	108	255
OCTOBER -2002	25.9	15.1	159	144	106	250
NOVEMBER -2002	23.3	12.5	178	137	95.5	233
DECEMBER -2002	30.3	15.2	234	171	124	295
Annual Average:	27.2	13.9	177	155	112	267

Analyte:	Total Dissolved Solids	Lithium	Cobalt	Molybdenum	Vanadium
MDL and Units:	42 MG/L	.01 MG/L	4 MG/L	3 MG/L	7 MG/L
Limit:	1200				
JANUARY -2002	883	0.03	ND	ND	ND
FEBRUARY -2002	882	0.04	ND	ND	ND
MARCH -2002	907	0.05	NR	NR	NR
APRIL -2002	911	0.03	<4	<3	ND
MAY -2002	875	0.03	ND	<3	ND
JUNE -2002	868	0.05	ND	<3	ND
JULY -2002	868	0.05	ND	ND	ND
AUGUST -2002	856	0.07	<4	<3	ND
SEPTEMBER-2002	896	0.10	NR	NR	NR
OCTOBER -2002	963	0.04	ND	ND	ND
NOVEMBER -2002	936	0.04	ND	NR	NR
DECEMBER -2002	938	0.06	NR	NR	NR
Annual Average:	899	0.05	0	<0	ND

ND= Not Detected
 NA= Not Analyzed
 MDL= Method Detection Limit
 NR= Not Required