



THE CITY OF SAN DIEGO

NORTH CITY WATER RECLAMATION PLANT

ANNUAL MONITORING REPORT 2014

(SDRWQCB Order No. 97-03)



Environmental Monitoring and Technical Services
Public Utilities Department
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
Tel (619) 758-2300 Fax (619) 758-2309





THE CITY OF SAN DIEGO

January 30, 2015

Mr. David W. Gibson, Executive Officer
California Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108

Attn: Ground Water Unit

Dear Mr. Gibson:

Enclosed is the Annual Monitoring report for 2014 for the City of San Diego North City Water Reclamation Plant, as is specified in Monitoring and Reporting Program No. 97-03 for the production and purveyance of reclaimed water.

In addition, results of analyses performed on North City samples, as part of the Metropolitan Wastewater system-wide Quarterly Sludge Project, a portion of the City's Pretreatment Program, have also been included.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Peter S. Vroom, Ph.D.
Public Utilities Deputy Director
Environmental Monitoring and Technical Services Division

BGB/caq

Enclosure: CD containing PDF file of Report

cc: EPA Region 9
San Diego County Department of Environmental Health,
Distribution
File

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Environmental Monitoring and Technical Services Division • Public Utilities

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INTRODUCTION:

The purpose of this document is to both meet the requirements of Monitoring and Reporting Program and to provide a reference source and resource tools for both regulatory agencies and City staff and their consultants. To this end, the past year’s data is presented in tabular and graphical form. To make this document more useful we have included operational data and background analyses.

Notes on data conventions and analyses:

It should be noted that for averaging purposes "less than" and "not detected" (nd) values were treated as zeros. In many parts of the report zero values are found. Our computer system reads "less than" values as zero for summaries, as well as in computing averages. In those areas where zeros are found, the reader can find appropriate Method Detection Limit (MDL) in the table of data. Because "less than" values are averaged as zero, a number in the summary table values may be lower than the detection limits.

The data tables may also contain values expressed as a <X (less than) with some number X. For example, the Diazinon value for PLE on March 10, 1998 (in the table below) is reported as <2.4 ug/L (see the below table); this indicates that one or more, of two or more, determinations was above the MDL, while the average was below the MDL. This value is still treated as a zero for averaging and other summary calculations. Note also, that sub-totals and totals consisting of multiple analytes (see below) are also reported as “<X”, where the “X” value is the highest MDL for the particular group of analytes. This has the same significance as a “ND” or not detected.

Organophosphorus Pesticides

	MDL	Units	PLE			PLR		
			10-MAR-1998	27-APR-1998	10-SEP-1998	10-MAR-1998	27-APR-1998	10-SEP-1998
			0311980006	0428980006	9809107494	0311980007	0428980007	9809107515
Demeton O	1.69	UG/L	ND	ND	ND	ND	ND	ND
Demeton S	1.82	UG/L	ND	ND	ND	ND	ND	ND
Diazinon	2.41	UG/L	<2.4	ND	ND	<2.4	ND	ND
Guthion	7.1	UG/L	ND	ND	ND	ND	ND	ND
Malathion	2.98	UG/L	ND	ND	ND	ND	ND	ND
Parathion	2.83	UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1
Demeton -O, -S			<1.8	<0.2	<0.2	<1.8	<0.2	<0.2
Total Organophosphorus Pesticides			<7.1	<7.1	<7.1	<7.1	<7.1	<7.1

A further limitation, that the user of this data should note, is that confidence in the results of an analysis is heavily dependent upon the concentration relative to the Method Detection Limit (MDL). For the most part our detection limits have been established using the procedure in 40 CFR, part 136. This statistical basis for the MDL results in a defined statistical confidence (at the 99% Confidence Interval) of essentially ±100% of the result at or near the MDL. Only at concentrations approximately 5 times the MDL is the confidence interval at ±20% relative. While the precision of our methods generally ranges from 2-3 significant figures, the above limitations of confidence should always be considered.

Laboratories Contributing Results used in this report.

Alvarado Wastewater Chemistry Laboratory
(EPA Lab Code: CA00380,
ELAP Certificate: 1609)
5530 Kiowa Drive
La Mesa, CA 91942
(619)668-3212
All results except those listed below.

Point Loma Wastewater Chemistry Laboratory
(EPA Lab Code: CA01435,
ELAP Certificate: 2474)
1902 Gatchell Road
San Diego, CA 92106
(619)221-8765

Process control analyses and wet methods for the plant.

North City Wastewater Chemistry Laboratory
(EPA Lab Code: CA01436,
ELAP Certificate: 2477)
4949 Eastgate Mall
San Diego, CA 92121
(858)824-6009

Process control analyses and wet methods for the plant.

Metro Biosolids Center Wastewater Chemistry
(EPA Lab Code: CA01437,
ELAP Certificate: 2478)
5240 Convoy Street
San Diego, CA 92111
(858)614-5834

Process control analyses and wet methods for the plant.

South Bay Water Reclamation Plant
(EPA Lab Code: CA01460,
ELAP Certificate: 2539)
2411 Dairy Mart Road
San Diego, CA 92173
(619)428-7349

Process control analyses and wet methods for the plant.

City of San Diego - Water Quality Laboratory
(EPA Lab Code: CA00080,
ELAP Certificate: 1058)
5530 Kiowa Drive
La Mesa, CA 91942
(619)668-3237

Totals of Organic Carbon, Nitrogen, Thallium, and Phosphorus in Wastewater

City of San Diego - Marine Microbiology and Vector Management (EPA LabCode: CA01393, ELAP Certificate: 2185)
2392 Kincaid Road
San Diego, CA 92101
(619)758-2312

Microbiology

Test America Richland (EPA Lab Code: WA00023,
ELAP Certificate: 2425)
2800 George Washington Way
Richland, WA 99354-1613
(509)375-3131

Gross Alpha/Beta Radioactivity

Graphs:

Graphs of monthly averages show the arithmetic mean of the determinations made in the calendar month without weighting for variation in frequency or number of determinations. If the mean is less than the MDL (i.e. 'nd' or '<X'), the expressed graphical value is zero (0).

Terms:

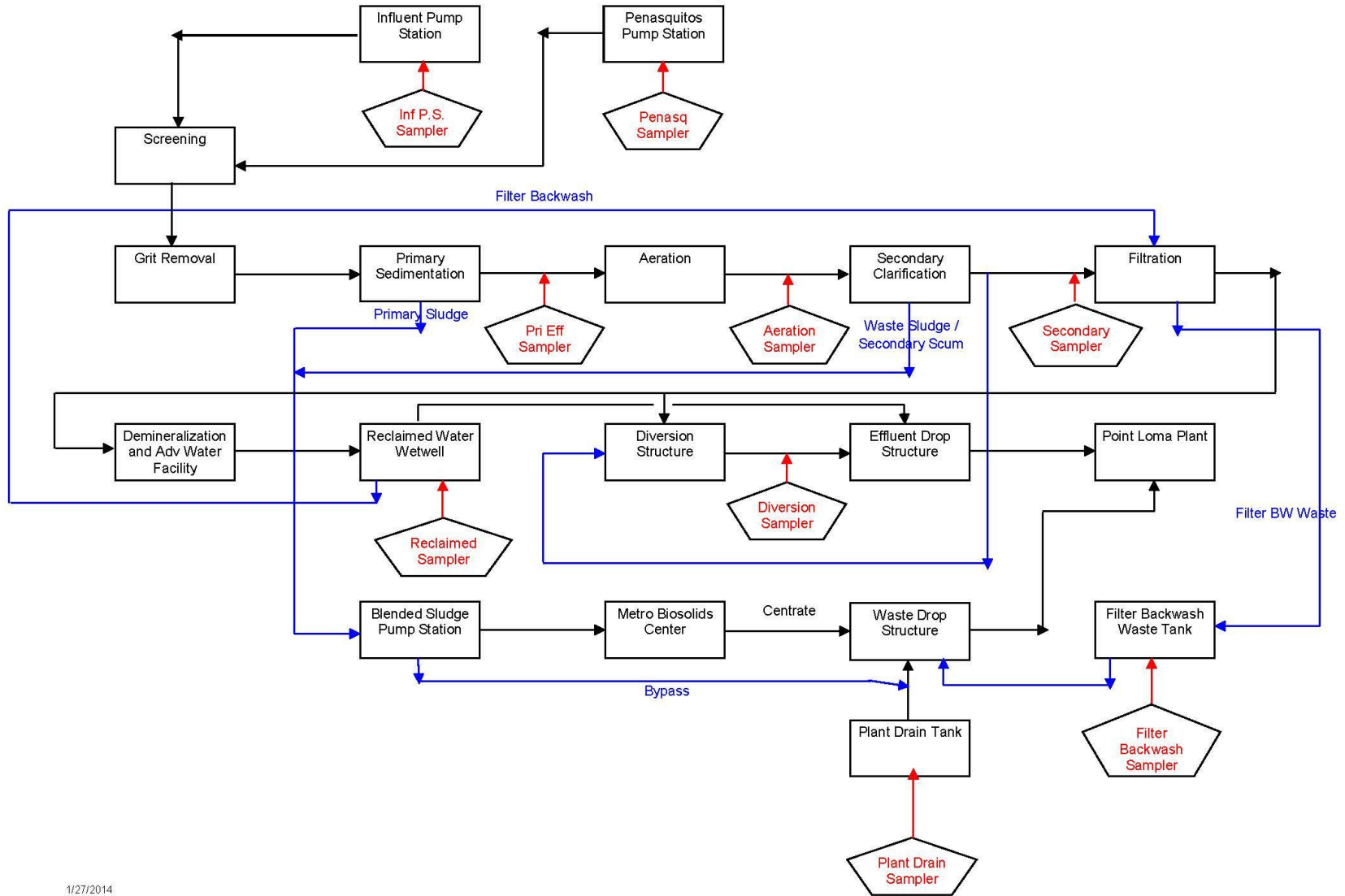
North City Water Reclamation Plant Source Codes

N01-PEN	Penasquitos Influent Pump Station
N01 PS_INF	Pump Station 64 Influent
N30-DFE	Disinfected Final Effluent
N15 AE	Aeration Effluent
N34 REC WATER	Compliance point. Reclaimed water distributed to customers, downstream of EDR unit.
N25 FES	Filter Effluent Structure
N10 EFF	Primary Effluent
N10-PSP COMB	Combined Primary Sludge Pump
N15-WAS HCP	Waste Activated Sludge (High Capacity Pump)
N15-WAS LCP	Waste Activated Sludge (Low Capacity Pump)

North City Water Reclamation Plant Operator Certification 2014

<u>Name</u>	<u>Grade</u>	<u>Cert. No.</u>	<u>Expiration Date</u>
<u>North City Plant Superintendent</u>			
Molas, Ernesto	V	V-7227	12/31/2015
<u>North City Sr. Operations Supervisor</u>			
Pruett, Sam	V	V-7791	06/30/2015
<u>North City Operations Supervisors</u>			
Cozad, John	III	III-7138	12/31/2015
Relph, Robert	III	III-6742	12/31/2016
Bruce Blumer	III	III-9347	12/31/2016
<u>North City Operators</u>			
Castillo, Jose	III	III-9849	06/30/2015
Jacques, Richie	III	III-27921	06/30/2016
Saulog, Noel	II	II-10299	12/31/2016
Michael A. Duhamel	II	II-9444	06/30/2016
Gabriel L. Duresseau	II	II-28294	06/30/2016
Brett W Faulkner	III	III-41525	08/14/2016
Marlene E. Gutierrez	II	II-9636	06/30/2015
George P. Wendorf	II	II-9774	12/31/2015
<u>North City Operator in Training</u>			
Aleksey N. Pisarenko	OIT I	NA	12/31/2014

NCWRP Sampling Schematic



1/27/2014

North City Water Reclamation Plant
2014 Flows

Monthly Totals - Millions of Gallons

Month	Penas- quitos Influent (MG)	Headworks Flow 36" (MG)	Plant Drain Influent (MG)	Disinfect Final Effluent (MG)	Reclaim Water (MG)	N Return (MG)	FES Filter Effluent (MG)	Primary Effluent (MG)	Primary Sludge (MG)	WAS Hi Cap sludge (MG)	WAS Lo Cap sludge (MG)	Filter Backwash (MG)	Total Sludge Flow to MBC (MG)
01	187.4	264.3	17.6	25.8	140.4	309.44	175.64	478.31	23.09	.00	4.75	8.05	27.22
02	175.9	240.0	19.2	23.6	94.1	293.88	130.01	434.08	20.73	.00	4.25	6.20	23.46
03	181.0	287.4	20.7	27.0	118.7	329.99	159.80	479.13	23.41	.00	4.93	6.61	27.81
04	169.7	283.4	17.2	24.7	179.1	241.63	216.51	463.29	22.54	.00	4.63	10.02	26.73
05	199.2	295.7	26.9	24.4	280.1	157.74	318.39	483.05	22.11	.00	5.58	12.19	24.70
06	159.6	339.3	15.8	27.1	282.1	137.26	324.16	456.98	19.93	.00	5.19	11.03	26.57
07	187.3	304.2	14.5	29.9	301.6	146.43	345.11	471.53	16.16	.00	5.87	11.99	27.92
08	197.6	285.9	19.0	27.7	302.4	142.75	344.20	475.21	22.35	.00	6.09	12.29	26.86
09	215.5	280.4	14.0	25.7	289.2	147.86	330.94	466.08	24.56	.00	5.56	15.16	26.74
10	179.5	302.1	12.3	25.2	232.5	210.90	268.72	480.56	21.75	.00	5.89	10.10	27.16
11	149.2	301.7	13.8	23.5	156.9	258.74	193.52	458.03	16.26	.00	5.64	9.42	27.04
12	219.0	276.5	14.7	24.5	50.9	390.62	113.68	480.41	22.24	.00	6.10	4.95	28.11
Average	185.1	288.4	17.1	25.8	202.3	230.60	243.39	468.89	21.26	.00	5.37	9.83	26.69
Total	2220.9	3460.8	205.6	309.1	2428.0	2767.24	2920.68	5626.66	255.13	.00	64.48	118.01	320.32

Daily Averages - Millions of Gallons

Month	Penas- quitos Influent (MG)	Headworks Flow 36" (MG)	Plant Drain Influent (MG)	Disinfect Final Effluent (MG)	Reclaim Water (MG)	N Return (MG)	FES Filter Effluent (MG)	Primary Effluent (MG)	Primary Sludge (MG)	WAS Hi Cap sludge (MG)	WAS Lo Cap sludge (MG)	Filter Backwash (MG)	Total Sludge Flow to MBC (MG)
01	6.0	8.5	.6	.8	4.5	9.98	5.67	15.43	.74	.00	.15	.26	.88
02	6.3	8.6	.7	.8	3.4	10.50	4.64	15.50	.74	.00	.15	.22	.84
03	5.8	9.3	.7	.9	3.8	10.64	5.15	15.46	.76	.00	.16	.21	.90
04	5.7	9.4	.6	.8	6.0	8.05	7.22	15.44	.75	.00	.15	.33	.89
05	6.4	9.5	.9	.8	9.0	5.09	10.27	15.58	.71	.00	.18	.39	.80
06	5.3	11.3	.5	.9	9.4	4.58	10.81	15.23	.66	.00	.17	.37	.89
07	6.0	9.8	.5	1.0	9.7	4.72	11.13	15.21	.52	.00	.19	.39	.90
08	6.4	9.2	.6	.9	9.8	4.60	11.10	15.33	.72	.00	.20	.40	.87
09	7.2	9.3	.5	.9	9.6	4.93	11.03	15.54	.82	.00	.19	.51	.89
10	5.8	9.7	.4	.8	7.5	6.80	8.67	15.50	.70	.00	.19	.33	.88
11	5.0	10.1	.5	.8	5.2	8.62	6.45	15.27	.54	.00	.19	.31	.90
12	7.1	8.9	.5	.8	1.6	12.60	3.67	15.50	.72	.00	.20	.16	.91
Average	6.1	9.5	.6	.8	6.6	7.59	7.98	15.42	.70	.00	.18	.32	.88

Reclaim Water = Distribution Water

North City Water Reclamation Plant			
(N34-REC WATER) Recycled Water Chlorine Report			
N34-REC WATER is compliance point for reclaimed water			
	Minimum Daily ¹	Maximum Daily ²	Time ³
Operations 2014	Chlorine Residual	Chlorine Residual	CT less than
Date	(mg/L)	(mg/L)	450 mg-min/l (min)
Jan	4.13	5.68	0
Feb	3.91	5.48	0
Mar	3.79	5.40	0
Apr	3.26	5.93	0
May	4.35	6.85	0
Jun	3.63	7.48	0
Jul	3.65	7.99	0
Aug	5.35	8.76	0
Sep	4.79	8.49	0
Oct	3.68	8.07	0
Nov	3.51	5.94	0
Dec	3.46	5.77	0
		Total:	0
1 Minimum Daily value is the average recorded for the month.			
2 Maximum Daily value is the average recorded value for the month.			
3 Total time for the month.			

**North City Water Reclamation Plant
Recycled Water Coliform Report**

Operations 2014 Date	Tot. Coliform (7-day median) (MPN)
Jan	<1.8
Feb	<1.8
Mar	<1.8
Apr	<1.8
May	<1.8
Jun	<1.8
Jul	<1.8
Aug	<1.8
Sep	<1.8
Oct	<1.8
Nov	<1.8
Dec	<1.8

North City Water Reclamation Plant

Recycled Water Turbidity Report

Data from in-plant meter ⁴

	Average Daily	Minimum Daily ¹	Maximum Daily ²	Time Over ³
Operations 2014	Turbidity	Turbidity	Turbidity	5 NTU's
Date	(NTU)	(NTU)	(NTU)	(MINUTES)
Jan	0.21	0.18	0.48	0.00
Feb	0.16	0.13	0.34	0.00
Mar	0.19	0.17	0.42	0.00
Apr	0.21	0.19	0.74	0.00
May	0.18	0.16	0.44	0.00
Jun	0.25	0.19	0.32	0.00
Jul	0.14	0.13	0.16	0.00
Aug	0.20	0.19	0.43	0.00
Sep	0.17	0.17	0.22	0.00
Oct	0.19	0.16	0.20	0.00
Nov	0.20	0.16	0.50	0.00
Dec	0.15	0.14	0.20	0.00
Average:	0.19	0.18	0.37 Total:	0.00

¹ Minimum Daily value is the average recorded for the month.

² Maximum Daily value is the average recorded value for the month.

³ Total time for the month.

⁴ Compliance monitoring point, values taken from the combined filter effluent turbidity meter (N25A11673) or (N25A11674), located at meter room of Area 25 (Tertiary Filter Structures)

North City Reclamation Plant Monthly Monitoring Report
Annual Monitoring Report

2014

(N34-REC) Reclaimed Water - Daily Parameters

MDL/Units	Biochemical Oxygen Demand 2 MG/L	Total Dissolved Solids 28 MG/L	Total Suspended Solids 2.5 MG/L	Volatile Suspended Solids 2.5 MG/L	pH Grab (pH)
JANUARY -2014	<2	849	ND	ND	6.91
FEBRUARY -2014	ND	895	ND	ND	6.94
MARCH -2014	ND	868	ND	ND	6.96
APRIL -2014	ND	899	ND	ND	6.90
MAY -2014	ND	883	ND	ND	6.99
JUNE -2014	<2	887	ND	ND	7.01
JULY -2014	ND	854	ND	ND	6.96
AUGUST -2014	ND	852	ND	ND	6.95
SEPTEMBER-2014	ND	859	ND	ND	6.94
OCTOBER -2014	ND	858	ND	ND	6.96
NOVEMBER -2014	ND	845	ND	ND	6.94
DECEMBER -2014	ND	831	ND	ND	6.97
Average:	0	865	ND	ND	6.95
Maximum:	0	899	ND	ND	7.01
Minimum:	0	831	ND	ND	6.90

(N01-PS-INF) Pump Station 64 Influent - Daily Parameters

	Biochemical Oxygen Demand (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Turbidity (NTU)	pH COMPOSITE (pH)
JANUARY -2014	290	1150	286	243	134	7.37
FEBRUARY -2014	316	1150	329	285	133	7.37
MARCH -2014	285	1120	287	249	129	7.38
APRIL -2014	288	1180	294	255	137	7.39
MAY -2014	286	1160	282	241	134	7.38
JUNE -2014	299	1090	301	257	131	7.36
JULY -2014	295	1030	311	267	127	7.31
AUGUST -2014	350	1040	354	305	152	7.32
SEPTEMBER-2014	301	1140	309	269	136	7.41
OCTOBER -2014	331	1140	328	286	151	7.45
NOVEMBER -2014	315	1180	328	278	147	7.37
DECEMBER -2014	>285	1180	273	240	134	7.38
Average:	303	1130	307	265	137	7.37
Maximum:	350	1180	354	305	152	7.45
Minimum:	285	1030	273	240	127	7.31

All samples are 24-hour composite.

MDLs listed are the maximum MDL for the past 12 months

ND= Not Detected

North City Reclamation Plant Annual Monitoring Report
ANNUAL MONITORING REPORT

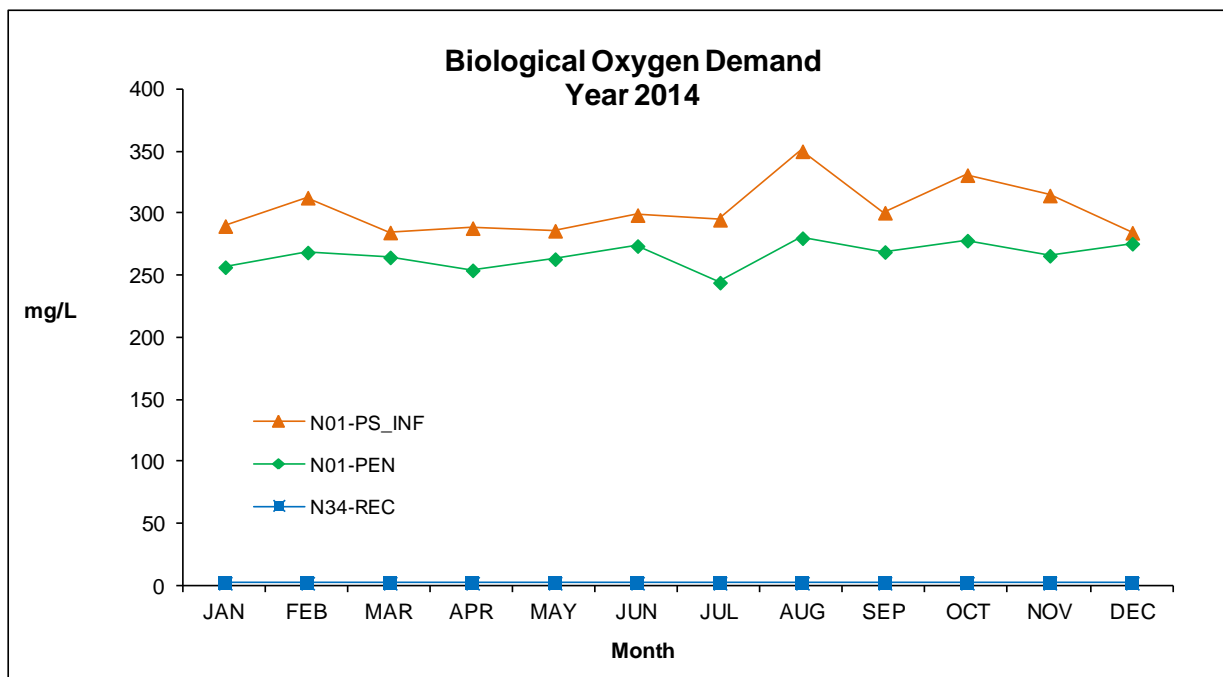
2014

(N01-PEN) Penasquitos Pump Station Influent - Daily Parameters

	Biochemical Oxygen Demand (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Turbidity (NTU)	pH COMPOSITE (pH)
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	257	893	345	299	105	7.44
FEBRUARY -2014	267	872	369	319	115	7.46
MARCH -2014	265	844	354	294	113	7.48
APRIL -2014	254	874	343	289	112	7.51
MAY -2014	261	863	315	262	125	7.52
JUNE -2014	274	804	360	292	114	7.47
JULY -2014	244	716	362	299	113	7.52
AUGUST -2014	278	732	342	282	121	7.48
SEPTEMBER -2014	269	793	348	296	112	7.50
OCTOBER -2014	277	797	333	278	142	7.62
NOVEMBER -2014	266	860	326	268	150	7.49
DECEMBER -2014	276	911	328	280	119	7.49
=====	=====	=====	=====	=====	=====	=====
Average:	266	830	344	288	120	7.50
Maximum:	278	911	369	319	150	7.62
Minimum:	244	716	315	262	105	7.44

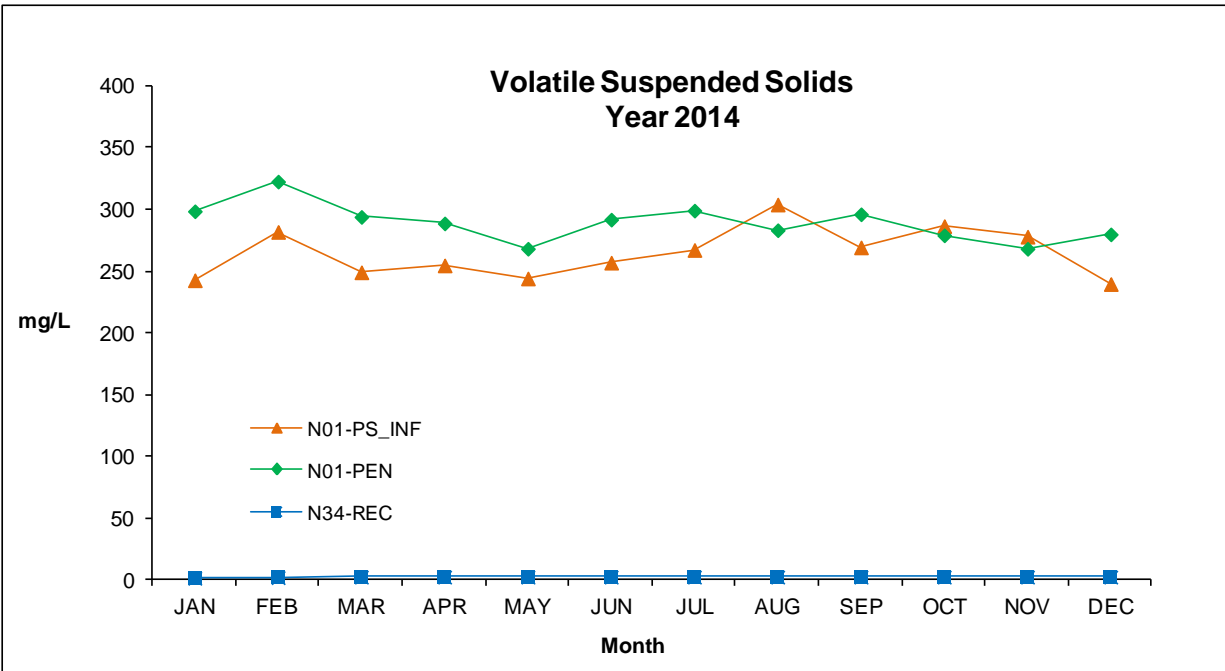
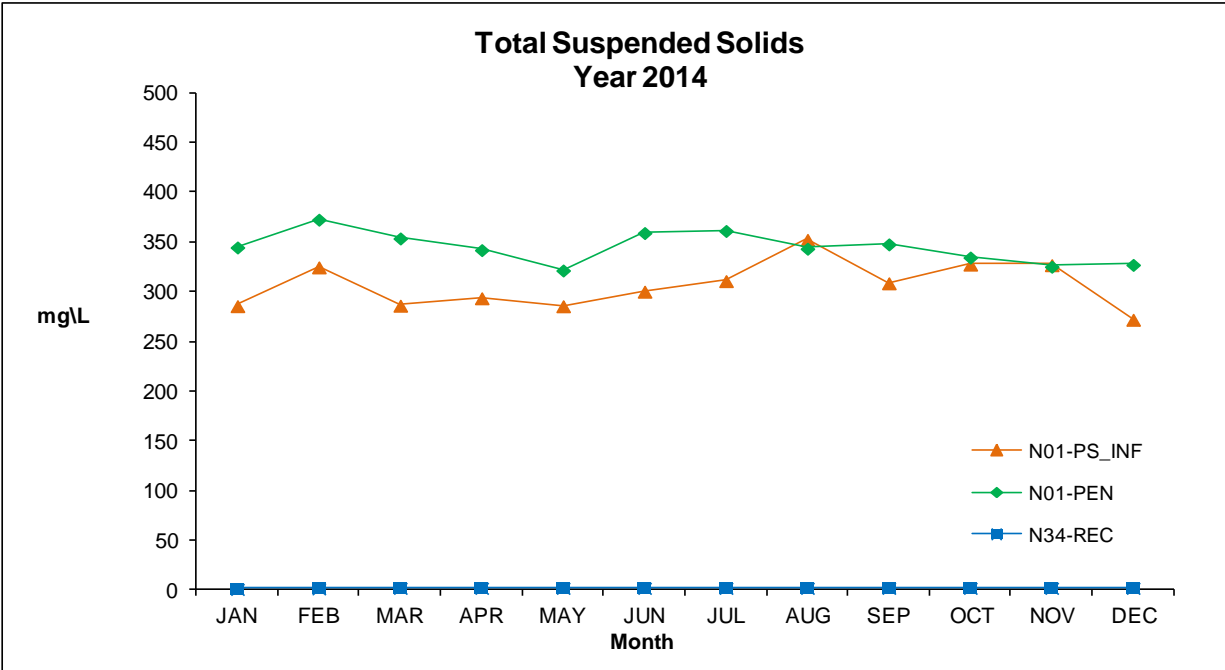
All samples are 24-hour composite.

ND= Not Detected



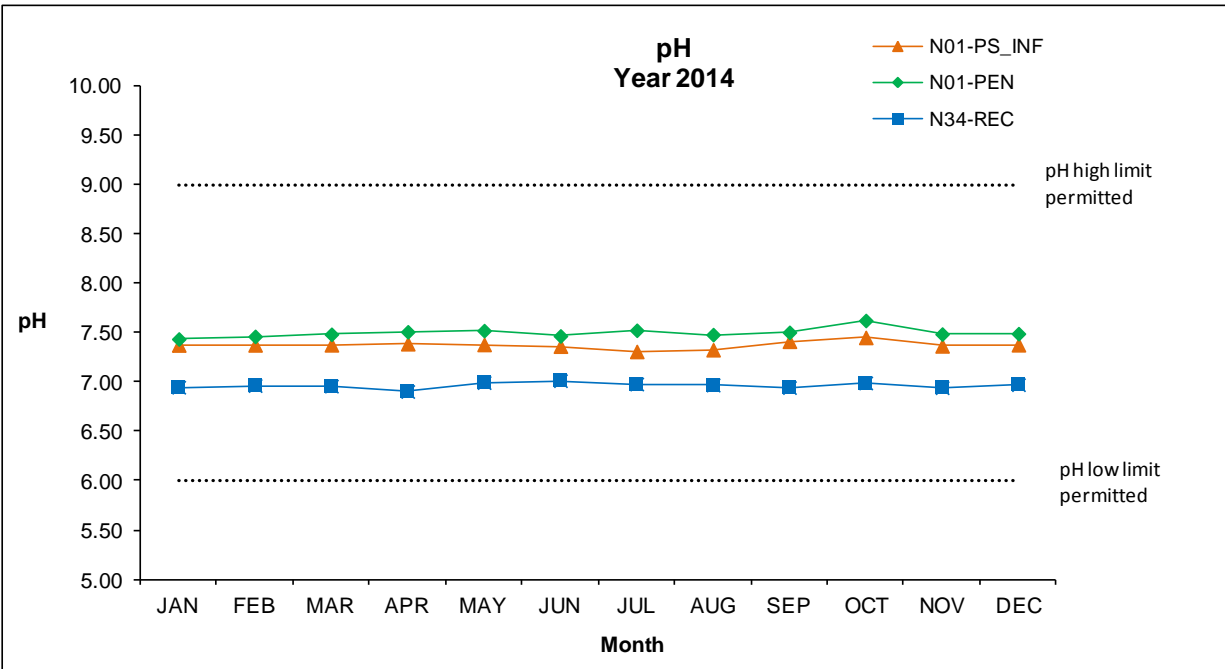
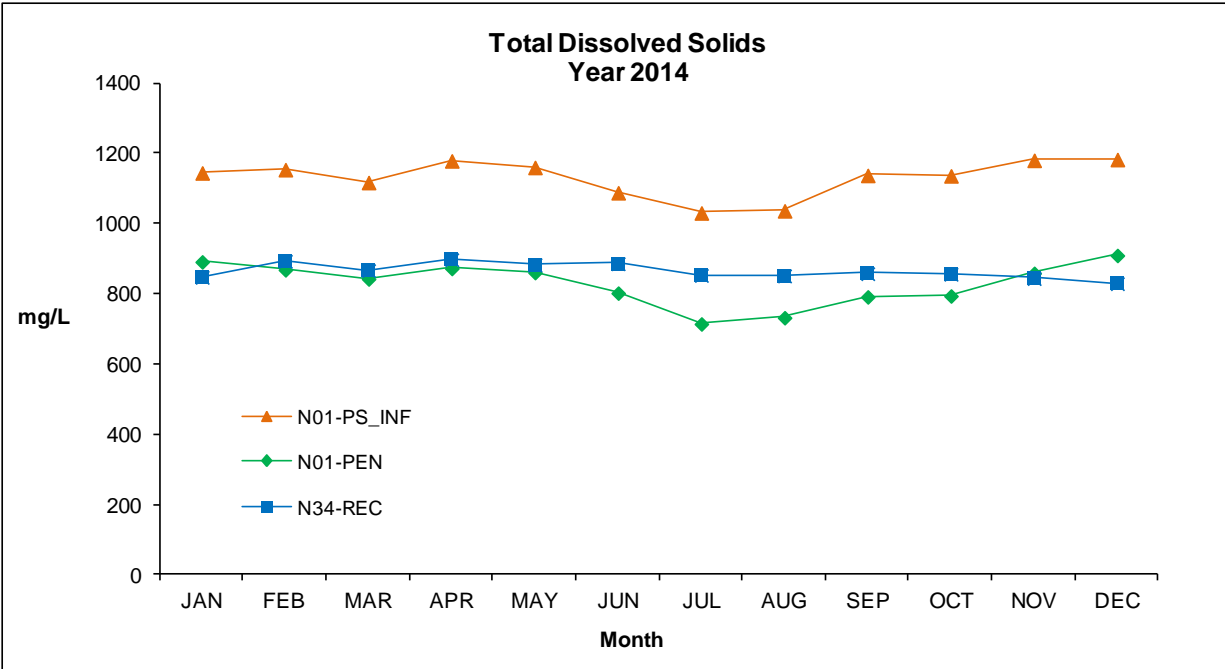
North City Reclamation Plant
Annual Monitoring Report

2014



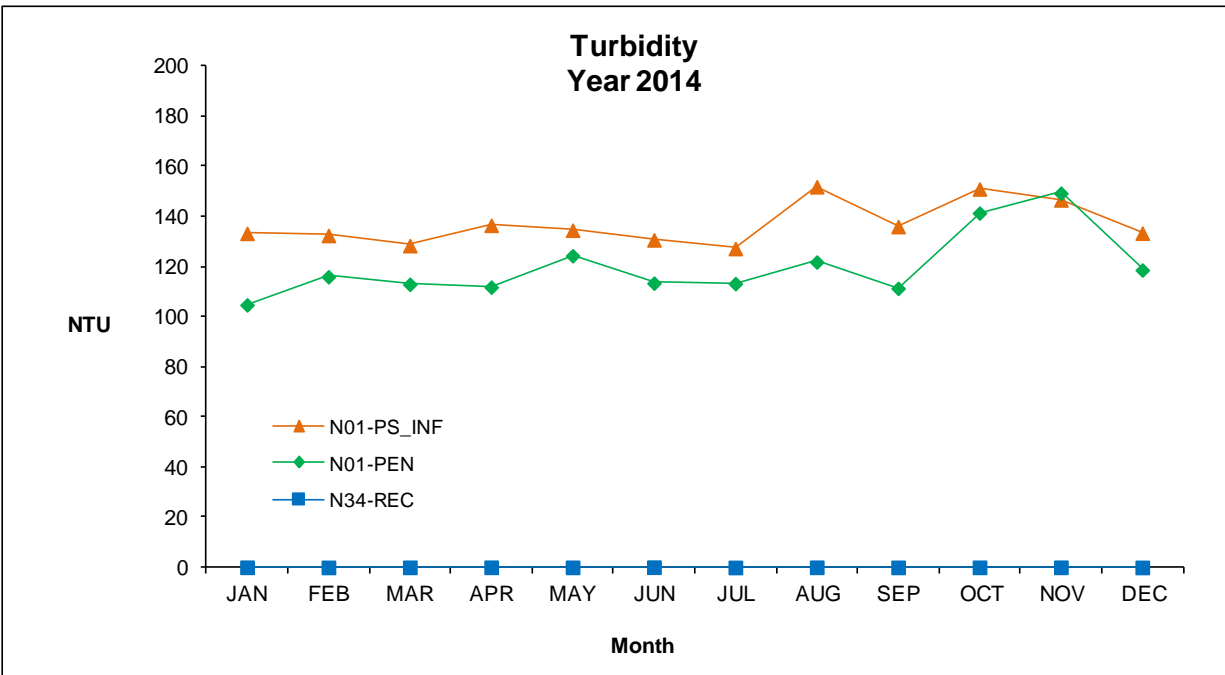
North City Reclamation Plant
Annual Monitoring Report

2014



North City Reclamation Plant
Annual Monitoring Report

2014



* Turbidity average daily results for N34-REC taken from in-plant meter

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N34-REC) Reclaim Water - Monthly/Annual Averages

Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL:	47	2.9	.06	.7	.05	7
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Limit:	1000	6	50	1000	4	700
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	ND	ND	0.3	23.3	ND	297
FEBRUARY -2014	ND	ND	0.2	22.9	ND	307
MARCH -2014	ND	ND	0.4	26.1	ND	283
APRIL -2014	ND	ND	0.3	22.9	<0.022	291
MAY -2014	ND	ND	0.4	23.6	ND	310
JUNE -2014	ND	ND	0.9	24.1	ND	310
JULY -2014	ND	ND	0.6	15.2	ND	313
AUGUST -2014	ND	ND	0.8	12.9	ND	323
SEPTEMBER-2014	52	ND	0.5	17.6	ND	335
OCTOBER -2014	ND	<2.4	0.6	22.1	ND	320
NOVEMBER -2014	ND	ND	0.4	20.1	ND	306
DECEMBER -2014	ND	ND	0.5	24.7	ND	294
=====	=====	=====	=====	=====	=====	=====
Annual Average:	4	0.0	0.5	21.3	0.000	307

Analyte:	Cadmium	Chromium	Cobalt	Copper	Iron	Lead
MDL:	.53	1.2	.85	2.16	37	2
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Limit:	5	50			300	
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	ND	ND	ND	6	84	ND
FEBRUARY -2014	ND	ND	ND	<2	<37	ND
MARCH -2014	ND	ND	ND	ND	79	ND
APRIL -2014	ND	ND	ND	3	47	ND
MAY -2014	ND	<1.2	ND	2	56	ND
JUNE -2014	ND	ND	<0.85	3	58	<2.0
JULY -2014	ND	1.3	0.39	<2	60	2.5
AUGUST -2014	ND	0.8	0.78	<2	47	2.9
SEPTEMBER-2014	ND	1.2	0.69	3	67	<1.7
OCTOBER -2014	ND	1.2	0.51	4	51	ND
NOVEMBER -2014	ND	1.0	0.43	3	33	ND
DECEMBER -2014	ND	1.1	0.63	4	50	ND
=====	=====	=====	=====	=====	=====	=====
Annual Average:	ND	0.6	<0.29	2	53	0.5

Analyte:	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver
MDL:	.78	.005	.89	.53	.08	.73
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Limit:	50	2		100	50	
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	67.4	ND	4.66	7.12	0.72	ND
FEBRUARY -2014	83.5	ND	4.01	4.67	0.75	ND
MARCH -2014	67.3	ND	4.99	5.11	0.83	<0.4
APRIL -2014	64.9	ND	4.81	5.07	0.97	<0.4
MAY -2014	59.5	ND	5.68	4.86	0.82	ND
JUNE -2014	72.2	ND	5.88	3.80	0.81	ND
JULY -2014	61.4	ND	5.56	4.03	0.49	ND
AUGUST -2014	68.0	ND	4.45	3.34	0.52	ND
SEPTEMBER-2014	51.9	ND	5.86	3.96	0.59	ND
OCTOBER -2014	46.2	ND	5.08	3.53	0.62	ND
NOVEMBER -2014	47.5	ND	5.19	3.30	0.82	ND
DECEMBER -2014	53.1	0.007	4.49	3.26	0.78	ND
=====	=====	=====	=====	=====	=====	=====
Annual Average:	61.9	0.001	5.06	4.34	0.73	0.0

MDLs listed are the maximum MDL for the past 12 months
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N34-REC) Reclaim Water - Monthly/Annual Averages

Analyte:	Thallium	Vanadium	Zinc	Calcium	Lithium	Magnesium
MDL:	.5	.64	4.19	.04	.002	.1
Units:	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L
Limit:	2					
=====						
JANUARY -2014	ND	1.56	23.4	69.0	0.040	28.3
FEBRUARY -2014	ND	1.57	24.1	72.3	0.040	30.2
MARCH -2014	ND	1.18	26.2	66.1	0.034	28.6
APRIL -2014	ND	0.91	23.8	73.9	0.042	30.6
MAY -2014	ND	<0.64	26.9	67.6	0.040	27.9
JUNE -2014	ND	0.76	23.9	68.6	0.038	29.2
JULY -2014	ND	0.83	24.9	58.7	0.032	26.4
AUGUST -2014	ND	0.55	22.9	52.1	0.030	23.9
SEPTEMBER -2014	ND	0.95	25.7	60.3	0.040	25.9
OCTOBER -2014	ND	0.80	25.5	65.3	0.038	28.2
NOVEMBER -2014	ND	0.60	22.9	70.1	0.037	27.8
DECEMBER -2014	ND	0.51	20.5	66.2	0.040	27.1
=====						
Annual Average:	ND	0.85	24.2	65.9	0.038	27.8

Analyte:	Potassium	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness	Total Alkalinity
MDL:	.3	1				20
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Limit:						
=====						
JANUARY -2014	17.1	177	173	117	290	98
FEBRUARY -2014	15.8	172	181	125	305	104
MARCH -2014	13.6	153	165	118	283	99
APRIL -2014	17.6	180	184	126	310	103
MAY -2014	16.9	181	169	115	283	106
JUNE -2014	17.2	184	170	121	291	105
JULY -2014	17.1	181	147	109	255	92
AUGUST -2014	15.9	168	130	98	228	102
SEPTEMBER -2014	16.6	174	150	107	257	91
OCTOBER -2014	16.5	177	163	116	279	106
NOVEMBER -2014	17.0	193	175	115	289	85
DECEMBER -2014	15.6	170	165	112	277	98
=====						
Annual Average:	16.4	176	164	115	279	99

Analyte:	Chloride	Fluoride	Nitrate	Sulfate	Ortho Phosphate (Surfactants)	MBAS
MDL:	7	.05	.04	9	.2	.03
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Limit:	300	1		300		
=====						
JANUARY -2014	229	0.59	49.2	201	2.0	0.07
FEBRUARY -2014	233	0.60	47.5	213	1.8	0.10
MARCH -2014	231	0.56	49.7	220	1.6	0.06
APRIL -2014	241	0.55	54.2	204	3.1	0.08
MAY -2014	231	0.57	53.8	212	3.2	0.07
JUNE -2014	244	0.57	56.5	195	4.1	0.06
JULY -2014	254	0.58	52.9	158	5.0	0.06
AUGUST -2014	255	0.54	55.7	144	4.2	0.37
SEPTEMBER -2014	247	0.57	62.4	185	3.3	0.07
OCTOBER -2014	241	0.55	52.8	187	4.6	0.09
NOVEMBER -2014	241	0.53	55.5	184	3.6	0.04
DECEMBER -2014	221	0.50	45.0	200	3.5	0.08
=====						
Annual Average:	239	0.56	52.9	192	3.3	0.10

MDLs listed are the maximum MDL for the past 12 months
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N34-REC) Reclaim Water - Monthly/Annual Averages

Analyte:	Total Organic Carbon	Percent Sodium	Adjusted Sodium Adsorption Ratio	Total Cyanides	Total Dissolved Solids	Total Nitrogen
MDL:	.3			.002	28	.78
Units:	MG/L	Percent	Ratio	MG/L	MG/L	MG/L
Limit:			6	0.2	1200	
=====						
JANUARY -2014	6.6	56	4.4	0.009	849	12.3
FEBRUARY -2014	6.5	54	4.3	0.004	895	13.4
MARCH -2014	6.3	53	3.9	0.003	868	13.2
APRIL -2014	7.3	54	4.5	0.003	899	15.2
MAY -2014	6.7	56	4.7	0.003	883	14.6
JUNE -2014	6.9	56	4.7	0.008	887	15.9
JULY -2014	6.4	59	4.7	0.002	854	15.7
AUGUST -2014	7.4	59	4.8	0.002	852	10.6
SEPTEMBER -2014	6.9	58	4.5	0.003	859	16.1
OCTOBER -2014	8.0	56	4.5	0.004	858	12.5
NOVEMBER -2014	5.7	57	4.7	0.006	845	14.1
DECEMBER -2014	5.0	55	4.4	0.006	831	10.4
=====						
Annual Average:	6.6	56	4.5	0.004	865	13.7

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N01-PS_INF) Pump Station 64 Influent - Annual Averages

Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL:	47	2.9	.06	.7	.05	7
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
JANUARY -2014	281	ND	0.65	109	<0.02	293
FEBRUARY -2014	513	ND	0.51	121	0.03	325
MARCH -2014	402	ND	1.44	97	0.05	304
APRIL -2014	378	ND	0.65	109	0.03	301
MAY -2014	259	<2.9	0.87	109	ND	315
JUNE -2014	415	ND	0.94	101	ND	310
JULY -2014	433	ND	0.48	82	ND	335
AUGUST -2014	559	<2.4	0.99	79	ND	342
SEPTEMBER -2014	497	ND	0.69	94	ND	344
OCTOBER -2014	410	<2.4	0.90	99	ND	334
NOVEMBER -2014	556	<2.4	1.09	118	ND	321
DECEMBER -2014	721	<2.4	1.62	104	ND	286
Annual Average:	452	0.0	0.90	102	0.01	318

Analyte:	Cadmium	Chromium	Cobalt	Copper	Iron	Lead
MDL:	.53	1.2	.85	2.16	37	2
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
JANUARY -2014	ND	4.2	1.05	118	9200	ND
FEBRUARY -2014	ND	5.7	ND	150	8700	<2.0
MARCH -2014	ND	4.6	ND	119	6600	2.9
APRIL -2014	ND	4.7	ND	146	7610	4.2
MAY -2014	ND	4.8	<0.85	127	7130	2.4
JUNE -2014	<0.53	6.8	0.95	131	7430	2.6
JULY -2014	ND	7.2	0.81	146	7960	4.6
AUGUST -2014	0.28	6.1	1.23	152	8530	4.4
SEPTEMBER -2014	<0.26	5.6	1.34	162	7640	1.8
OCTOBER -2014	ND	6.0	0.91	142	7170	3.7
NOVEMBER -2014	ND	7.4	0.99	137	8490	3.4
DECEMBER -2014	<0.26	5.7	1.48	126	6550	3.1
Annual Average:	0.02	5.7	0.73	138	7751	2.8

Analyte:	Lithium	Manganese	Mercury	Molybdenum	Nickel	Selenium
MDL:	.002	.78	.005	.89	.53	.08
Units:	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L
JANUARY -2014	0.050	160	0.083	9.10	7.54	0.88
FEBRUARY -2014	0.053	152	0.300	8.27	8.01	1.31
MARCH -2014	0.114	156	0.056	7.69	5.07	1.88
APRIL -2014	0.052	163	0.293	7.52	5.66	0.81
MAY -2014	0.059	154	0.086	8.34	6.05	1.63
JUNE -2014	0.060	148	0.064	8.85	6.15	1.54
JULY -2014	0.042	155	0.072	7.89	5.96	0.56
AUGUST -2014	0.035	152	0.127	8.80	5.84	1.45
SEPTEMBER -2014	0.055	147	0.051	11.10	5.22	1.57
OCTOBER -2014	0.052	141	0.110	10.00	6.17	1.15
NOVEMBER -2014	0.060	154	0.086	9.74	6.43	1.66
DECEMBER -2014	0.054	142	0.057	8.39	4.80	1.94
Annual Average:	0.057	152	0.12	8.81	6.08	1.37

MDLs listed are the maximum MDL for the past 12 months
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N01-PS_INF) Pump Station 64 Influent - Annual Averages

Analyte:	Silver	Thallium	Vanadium	Zinc	Calcium	Magnesium
MDL:	.73	3.9	.64	4.19	.04	.1
Units:	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L
JANUARY -2014	<0.4	ND	1.44	149	71.5	29.8
FEBRUARY -2014	1.1	ND	2.09	195	90.0	39.6
MARCH -2014	1.3	ND	1.14	150	92.0	40.8
APRIL -2014	0.7	ND	0.96	164	92.7	40.8
MAY -2014	1.0	ND	ND	157	95.6	40.9
JUNE -2014	0.9	ND	0.64	163	85.5	38.3
JULY -2014	1.5	ND	1.05	169	74.7	35.6
AUGUST -2014	1.1	ND	0.80	167	66.8	32.1
SEPTEMBER-2014	1.6	ND	0.85	158	75.9	33.6
OCTOBER -2014	<0.7	ND	0.95	154	87.3	40.0
NOVEMBER -2014	0.9	ND	1.50	151	88.9	36.4
DECEMBER -2014	1.4	ND	1.77	126	89.2	38.4
Annual Average:	1.0	ND	1.10	159	84.2	37.2

Analyte:	Potassium	Sodium	Chloride	Fluoride	Sulfate	Total Dissolved Solids
MDL:	.3	1	7	.05	9	28
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
JANUARY -2014	20.8	159	NR	NR	NR	1150
FEBRUARY -2014	22.5	214	296	0.35	244	1150
MARCH -2014	20.3	214	NR	NR	NR	1120
APRIL -2014	23.0	226	NR	NR	NR	1180
MAY -2014	23.9	242	332	0.52	261	1160
JUNE -2014	21.7	226	NR	NR	NR	1090
JULY -2014	22.2	223	NR	NR	NR	1030
AUGUST -2014	21.0	206	316	0.51	158	1040
SEPTEMBER-2014	21.2	206	NR	NR	NR	1140
OCTOBER -2014	23.5	265	378	0.58	222	1140
NOVEMBER -2014	23.1	234	NR	NR	NR	1180
DECEMBER -2014	20.9	223	NR	NR	NR	1180
Annual Average:	22.0	220	331	0.49	221	1130

Analyte:	Total Cyanides
MDL:	.002
Units:	MG/L
JANUARY -2014	ND
FEBRUARY -2014	ND
MARCH -2014	ND
APRIL -2014	ND
MAY -2014	ND
JUNE -2014	ND
JULY -2014	0.0030
AUGUST -2014	ND
SEPTEMBER-2014	0.0020
OCTOBER -2014	0.0020
NOVEMBER -2014	0.0030
DECEMBER -2014	ND
Annual Average:	0.0008

MDLs listed are the maximum MDL for the past 12 months
 ND= Not Detected
 NR= Not Required

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N01-PEN) Penasquitos Influent - Annual Averages

Analyte:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL:	47	2.9	.06	.7	.05	7
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	2590	ND	2.94	95	ND	266
FEBRUARY -2014	2150	ND	1.18	96	ND	299
MARCH -2014	1330	ND	1.46	93	0.04	281
APRIL -2014	1340	ND	1.05	89	0.03	278
MAY -2014	1750	ND	1.81	96	ND	294
JUNE -2014	2270	ND	3.61	83	ND	299
JULY -2014	2640	ND	4.08	70	ND	296
AUGUST -2014	2960	2.6	3.25	66	ND	345
SEPTEMBER-2014	2080	<2.4	2.94	83	ND	333
OCTOBER -2014	1210	<2.4	1.19	84	ND	298
NOVEMBER -2014	3230	5.4	3.10	126	ND	291
DECEMBER -2014	1510	3.3	2.22	105	ND	269
=====	=====	=====	=====	=====	=====	=====
Annual Average:	2088	0.9	2.40	91	0.01	296

Analyte:	Cadmium	Chromium	Cobalt	Copper	Iron	Lead
MDL:	.53	1.2	.85	2.16	37	2
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	ND	6.7	2.52	101	11600	2.6
FEBRUARY -2014	ND	5.6	1.00	96	12800	<2.0
MARCH -2014	ND	6.5	2.83	100	12300	<2.0
APRIL -2014	ND	8.9	1.86	105	10800	<2.0
MAY -2014	ND	9.9	1.51	108	12600	ND
JUNE -2014	ND	12.5	2.85	107	11200	3.2
JULY -2014	ND	10.0	1.18	104	10900	6.9
AUGUST -2014	ND	9.6	1.73	106	12200	5.7
SEPTEMBER-2014	ND	7.8	1.32	115	10800	2.5
OCTOBER -2014	ND	7.3	1.16	93	8840	3.7
NOVEMBER -2014	<0.26	12.2	1.42	115	18000	7.5
DECEMBER -2014	ND	8.9	1.21	80	9380	5.0
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.00	8.8	1.72	103	11785	3.1

Analyte:	Lithium	Manganese	Mercury	Molybdenum	Nickel	Selenium
MDL:	.002	.78	.005	.89	.53	.08
Units:	MG/L	UG/L	UG/L	UG/L	UG/L	UG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2014	0.050	123	0.137	6.67	12.7	0.28
FEBRUARY -2014	0.046	104	0.114	6.38	11.3	ND
MARCH -2014	0.019	94	0.067	7.67	9.2	1.30
APRIL -2014	0.046	97	0.238	6.93	11.8	0.50
MAY -2014	0.054	123	0.154	9.22	12.8	1.65
JUNE -2014	0.044	164	0.133	8.45	16.7	1.71
JULY -2014	0.032	144	0.405	7.84	12.1	1.13
AUGUST -2014	0.031	151	0.196	7.89	17.2	1.32
SEPTEMBER-2014	0.046	151	0.052	9.54	10.4	1.43
OCTOBER -2014	0.046	126	0.095	10.80	9.4	1.05
NOVEMBER -2014	0.052	200	0.154	10.90	12.6	1.21
DECEMBER -2014	0.052	228	0.133	10.30	10.8	1.51
=====	=====	=====	=====	=====	=====	=====
Annual Average:	0.043	142	0.157	8.55	12.3	1.09

MDLs listed are the maximum MDL for the past 12 months
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(N01-PEN) Penasquitos Influent - Annual Averages

Analyte:	Silver	Thallium	Vanadium	Zinc	Calcium	Magnesium
MDL:	.73	3.9	.64	4.19	.04	.1
Units:	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L
JANUARY -2014	1.13	ND	11.30	159	71.8	30.1
FEBRUARY -2014	0.70	ND	13.60	170	79.3	31.5
MARCH -2014	<0.40	ND	12.20	152	33.1	14.2
APRIL -2014	<0.40	ND	11.00	143	79.2	32.0
MAY -2014	0.44	ND	8.43	165	82.7	31.7
JUNE -2014	ND	ND	11.60	151	72.6	28.9
JULY -2014	ND	ND	6.90	151	57.0	24.5
AUGUST -2014	ND	ND	6.50	152	52.4	23.8
SEPTEMBER-2014	ND	ND	7.25	162	61.5	25.6
OCTOBER -2014	<0.73	ND	5.65	145	73.3	29.1
NOVEMBER -2014	ND	ND	6.00	176	73.6	26.8
DECEMBER -2014	<0.73	ND	4.47	132	78.2	30.5
Annual Average:	0.19	ND	8.74	155	67.9	27.4

Analyte:	Potassium	Sodium	Chloride	Fluoride	Sulfate	Total Dissolved Solids
MDL:	.3	1	7	.05	9	28
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
JANUARY -2014	20.7	159	NR	NR	NR	893
FEBRUARY -2014	18.4	163	204	0.50	208	872
MARCH -2014	7.3	94	NR	NR	NR	844
APRIL -2014	19.4	164	NR	NR	NR	874
MAY -2014	20.3	173	205	0.49	222	863
JUNE -2014	18.0	166	NR	NR	NR	804
JULY -2014	17.3	142	NR	NR	NR	716
AUGUST -2014	18.9	149	189	0.39	111	732
SEPTEMBER-2014	18.4	164	NR	NR	NR	793
OCTOBER -2014	18.4	152	191	0.47	174	797
NOVEMBER -2014	19.5	160	NR	NR	NR	860
DECEMBER -2014	19.3	163	NR	NR	NR	911
Annual Average:	18.0	154	197	0.46	179	830

Analyte:	Total Cyanides
MDL:	.002
Units:	MG/L
JANUARY -2014	ND
FEBRUARY -2014	ND
MARCH -2014	ND
APRIL -2014	ND
MAY -2014	0.003
JUNE -2014	ND
JULY -2014	ND
AUGUST -2014	0.003
SEPTEMBER-2014	ND
OCTOBER -2014	ND
NOVEMBER -2014	ND
DECEMBER -2014	ND
Annual Average:	0.001

MDLs listed are the maximum MDL for the past 12 months
 ND= Not Detected
 NR= Not Required

Annual Pretreatment Program Sludge Analysis

2014 Annual Pretreatment Program Sludge Analysis
(QUARTERLY SLUDGE PROJECT)

POINT LOMA WASTEWATER TREATMENT PLANT
ORDER NO. R9-2009-001
NPDES PERMIT NO. CA0107409

The Quarterly Sludge Project is part of the Pt. Loma WWTP NPDES (Permit No. CA0107409/Order No. R9-2010-001) monitoring requirements. The sampling plan is designed so as to provide a “snapshot” of all of the physical and chemical characteristics monitored of the wastewater treatment waste streams for a short interval of time (1-2 days). This is conducted quarterly.

The Quarterly Sludge Project was conducted 4 times during 2014, composite and grab samples were taken in February, May, August, and October.

The North City Reclamation Water Plant is included in the Pre-treatment monitoring program and data from that aspect of the program is reported in the following section. The plant primary influents (N01-PS_INF and N01-PEN), Primary effluent (N10-EFF), and reclaimed water (N34-REC WATER) were sampled. For influent and effluent samples, automatic refrigerated samplers are composited over a 24 hour period.

Grease & Oils, pH, temperature, and conductivity are determined from grab samples.

Abbreviations:

NCWRP	North City Water Reclamation Plant
N01-PS_INF	NCWRP influent from pump station 64
N01-PEN	NCWRP Penasquitos influent
N34-REC WATER	NCWRP reclaimed water.
N10-EFF	NCWRP Primary effluent

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(Metals from Digestion and Ions from Supernatant)

Source:		N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695702	P712470	P723712	P734708
=====					
Aluminum	47 UG/L	450	221	509	373
Antimony	2.9 UG/L	ND	3	3	ND
Arsenic	.06 UG/L	0.5	0.9	1.0	0.9
Barium	.7 UG/L	129	104	78.6	99.2
Beryllium	.05 UG/L	<0.022	ND	ND	ND
Boron	7 UG/L	332	330	339	337
Cadmium	.53 UG/L	ND	ND	0.28	ND
Chromium	1.2 UG/L	5.2	4.1	6.3	5.8
Cobalt	.85 UG/L	ND	1.00	1.37	0.98
Copper	2.16 UG/L	154	116	169	131
Iron	37 UG/L	8560	6530	9180	6960
Lead	2 UG/L	2	ND	4	ND
Manganese	.78 UG/L	153	155	153	139
Mercury	.005 UG/L	0.300	0.086	0.127	0.110
Molybdenum	.89 UG/L	7.59	8.08	9.61	10.8
Nickel	.53 UG/L	6.70	5.35	6.36	5.61
Selenium	.08 UG/L	1.31	1.63	1.45	1.15
Silver	.73 UG/L	1.3	0.7	1.3	0.8
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	2.06	ND	0.90	0.80
Zinc	4.19 UG/L	212	146	178	151
Total Kjeldahl Nitrogen	1.6 MG/L	64.1	59.1	52.3	60.9
=====					
Calcium	.04 MG/L	90.0	95.6	66.8	87.3
Lithium	.002 MG/L	0.053	0.059	0.035	0.052
Magnesium	.1 MG/L	39.6	40.9	32.1	40.0
Potassium	.3 MG/L	22.5	23.9	21.0	23.5
Sodium	1 MG/L	214	242	206	265
=====					
Calcium Hardness	.1 MG/L	225	239	167	218
Magnesium Hardness	.4 MG/L	163	168	132	165
Total Hardness	.5 MG/L	388	407	299	383
=====					
Bromide	.1 MG/L	0.4	0.5	0.5	0.5
Chloride	7 MG/L	296	332	316	378
Fluoride	.05 MG/L	0.35	0.52	0.51	0.58
Nitrate	.04 MG/L	0.07	0.07	0.06	0.50
Ortho Phosphate	.2 MG/L	6.7	6.4	6.0	8.4
Sulfate	9 MG/L	244	261	158	222
=====					
Cyanide, Total	.002 MG/L	ND	ND	ND	0.002
Sulfides-Total	.4 MG/L	3.0	2.1	3.6	4.1
Ammonia-N	.3 MG/L	37.3	34.9	33.9	35.1

ND= Not Detected
NR= Not Required

N34-REC WATER = NCWRP Reclaimed Water After Mixing
N10-EFF = Primary Effluent
N01-PS_INF = North City Pump Station Influent (PS #64)
N01-PEN = Penasquitos Pump Station Influent

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(Metals from Digestion and Ions from Supernatant)

Source:		N01-PEN	N01-PEN	N01-PEN	N01-PEN
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695707	P712475	P723717	P734713
Aluminum	47 UG/L	1420	1290	2650	513
Antimony	2.9 UG/L	ND	ND	3	ND
Arsenic	.06 UG/L	1.2	1.8	3.3	1.2
Barium	.7 UG/L	93.5	97.9	59.7	81.2
Beryllium	.05 UG/L	ND	ND	ND	ND
Boron	7 UG/L	312	290	321	302
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	5.8	10.7	9.9	5.1
Cobalt	.85 UG/L	1.07	1.60	1.88	1.01
Copper	2.16 UG/L	91	111	107	91
Iron	37 UG/L	12300	12900	11200	7480
Lead	2 UG/L	ND	ND	6	4
Manganese	.78 UG/L	105	114	159	106
Mercury	.005 UG/L	0.114	0.154	0.196	0.095
Molybdenum	.89 UG/L	6.36	9.54	7.27	11.2
Nickel	.53 UG/L	12.9	12.8	20.7	7.62
Selenium	.08 UG/L	ND	1.65	1.32	1.05
Silver	.73 UG/L	0.4	0.9	ND	0.8
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	13.9	9.06	6.50	5.50
Zinc	4.19 UG/L	159	181	155	139
Total Kjeldahl Nitrogen	1.6 MG/L	54.2	53.9	42.0	54.1
Calcium	.04 MG/L	79.3	82.7	52.4	73.3
Lithium	.002 MG/L	0.046	0.054	0.031	0.046
Magnesium	.1 MG/L	31.5	31.7	23.8	29.1
Potassium	.3 MG/L	18.4	20.3	18.9	18.4
Sodium	1 MG/L	163	173	149	152
Calcium Hardness	.1 MG/L	198	207	131	183
Magnesium Hardness	.4 MG/L	130	131	98	120
Total Hardness	.5 MG/L	328	338	229	303
Bromide	.1 MG/L	0.1	0.1	0.2	0.2
Chloride	7 MG/L	204	205	189	191
Fluoride	.05 MG/L	0.50	0.49	0.39	0.47
Nitrate	.04 MG/L	0.06	0.08	0.06	ND
Ortho Phosphate	.2 MG/L	2.7	3.9	3.0	6.4
Sulfate	9 MG/L	208	222	111	174
Cyanide, Total	.002 MG/L	ND	0.003	0.003	ND
Sulfides-Total	.4 MG/L	6.1	5.3	2.8	4.3
Ammonia-N	.3 MG/L	35.5	34.4	31.8	38.4

ND= Not Detected
NR= Not Required

N34-REC WATER = NCWRP Reclaimed Water After Mixing
N10-EFF = Primary Effluent
N01-PS_INF = North City Pump Station Influent (PS #64)
N01-PEN = Penasquitos Pump Station Influent

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(Metals from Digestion and Ions from Supernatant)

Source:		N10-EFF	N10-EFF	N10-EFF	N10-EFF
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695712	P712480	P723722	P734718
Aluminum	47 UG/L	584	202	308	421
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.06 UG/L	1.1	1.0	1.0	1.2
Barium	.7 UG/L	91.1	70.6	35.9	69.5
Beryllium	.05 UG/L	ND	ND	ND	ND
Boron	7 UG/L	331	318	331	338
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	2.7	3.9	2.9	3.5
Cobalt	.85 UG/L	ND	ND	1.11	0.69
Copper	2.16 UG/L	89	56	56	64
Iron	37 UG/L	7880	4980	3990	4340
Lead	2 UG/L	3	ND	2	2
Manganese	.78 UG/L	124	123	141	128
Mercury	.005 UG/L	0.074	0.051	0.082	0.041
Molybdenum	.89 UG/L	5.54	7.34	6.01	8.72
Nickel	.53 UG/L	7.87	6.40	8.15	5.29
Selenium	.08 UG/L	1.16	1.32	0.88	1.00
Silver	.73 UG/L	0.7	0.5	ND	ND
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	5.74	2.03	0.80	1.80
Zinc	4.19 UG/L	121	72.3	58.4	82.1
Total Kjeldahl Nitrogen	1.6 MG/L	54.3	49.9	44.7	55.4
Calcium	.04 MG/L	86.2	77.5	61.6	81.1
Lithium	.002 MG/L	0.050	0.046	0.034	0.049
Magnesium	.1 MG/L	36.0	32.8	29.0	35.0
Potassium	.3 MG/L	20.6	20.9	19.8	21.1
Sodium	1 MG/L	190	195	185	214
Calcium Hardness	.1 MG/L	215	193	154	203
Magnesium Hardness	.4 MG/L	148	135	119	145
Total Hardness	.5 MG/L	363	328	273	347
Bromide	.1 MG/L	0.3	0.3	NR	0.4
Chloride	7 MG/L	257	283	NR	306
Fluoride	.05 MG/L	0.55	0.52	NR	0.54
Nitrate	.04 MG/L	0.28	0.07	NR	0.34
Ortho Phosphate	.2 MG/L	4.4	4.6	NR	7.0
Sulfate	9 MG/L	231	246	NR	205
Cyanide, Total	.002 MG/L	0.012	ND	ND	ND
Sulfides-Total	.4 MG/L	1.8	0.6	1.6	1.7
Ammonia-N	.3 MG/L	36.2	36.8	33.7	36.5

ND= Not Detected
NR= Not Required

N34-REC WATER = NCWRP Reclaimed Water After Mixing
N10-EFF = Primary Effluent
N01-PS_INF = North City Pump Station Influent (PS #64)
N01-PEN = Penasquitos Pump Station Influent

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

(Metals from Digestion and Ions from Supernatant)

Source:		N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695717	P712485	P723727	P734723
Aluminum	47 UG/L	ND	ND	ND	ND
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.06 UG/L	0.2	0.4	0.8	0.6
Barium	.7 UG/L	21.9	25.6	11.5	20.2
Beryllium	.05 UG/L	ND	ND	ND	ND
Boron	7 UG/L	306	327	327	338
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	ND	<1.2	<0.5	1.3
Cobalt	.85 UG/L	ND	ND	0.75	0.56
Copper	2.16 UG/L	2	<2	3	4
Iron	37 UG/L	39	50	58	45
Lead	2 UG/L	ND	ND	3	ND
Manganese	.78 UG/L	69.7	55.8	83.1	43.7
Mercury	.005 UG/L	ND	ND	ND	ND
Molybdenum	.89 UG/L	4.10	5.61	4.47	5.62
Nickel	.53 UG/L	4.37	4.40	3.96	3.30
Selenium	.08 UG/L	0.75	0.82	0.52	0.62
Silver	.73 UG/L	ND	ND	ND	ND
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	1.56	ND	0.60	0.70
Zinc	4.19 UG/L	26.4	26.2	22.4	22.3
Total Kjeldahl Nitrogen	1.6 MG/L	ND	ND	ND	ND
Calcium	.04 MG/L	72.3	67.6	52.1	65.3
Lithium	.002 MG/L	0.040	0.040	0.030	0.038
Magnesium	.1 MG/L	30.2	27.9	23.9	28.2
Potassium	.3 MG/L	15.8	16.9	15.9	16.5
Sodium	1 MG/L	172	181	168	177
Calcium Hardness	.1 MG/L	181	169	130	163
Magnesium Hardness	.4 MG/L	125	115	98	116
Total Hardness	.5 MG/L	305	283	228	279
Bromide	.1 MG/L	ND	ND	ND	ND
Chloride	7 MG/L	233	231	255	241
Fluoride	.05 MG/L	0.60	0.57	0.54	0.55
Nitrate	.04 MG/L	52.6	56.8	47.0	56.1
Ortho Phosphate	.2 MG/L	1.8	3.2	4.2	4.6
Sulfate	9 MG/L	213	212	144	187
Cyanide, Total	.002 MG/L	0.004	0.003	0.002	0.004
Adjusted Sodium Adsorption	MG/L	4.3	4.7	4.8	4.5
Percent Sodium	PERCENT	53.5	56.3	59.4	56.0
Total Organic Carbon	MG/L	6.5	6.7	7.4	8.0
Sulfides-Total	.4 MG/L	ND	ND	ND	ND
Ammonia-N	.3 MG/L	ND	ND	ND	ND

ND= Not Detected
NR= Not Required

N34-REC WATER = NCWRP Reclaimed Water After Mixing
 N10-EFF = Primary Effluent
 N01-PS_INF = North City Pump Station Influent (PS #64)
 N01-PEN = Penasquitos Pump Station Influent

NORTH CITY WATER RECLAMATION PLANT
Annual Monitoring Report

2014

Radioactivity

Source	Sample Date	Sample	Units	Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====	=====	=====
N10-EFF	04-FEB-2014	P695712	pCi/L	4.7±4.6	23.8±5.9
N10-EFF	06-MAY-2014	P712480	pCi/L	-15.0±16.0	20.6±26.0
N10-EFF	05-AUG-2014	P723722	pCi/L	0.4±4.0	23.7±4.8
N10-EFF	07-OCT-2014	P734718	pCi/L	2.9±5.2	20.8±5.1
N01-PS_INF	04-FEB-2014	P695702	pCi/L	7.3±6.4	24.4±6.8
N01-PS_INF	06-MAY-2014	P712470	pCi/L	2.9±5.8	27.6±7.0
N01-PS_INF	05-AUG-2014	P723712	pCi/L	2.5±5.2	26.1±5.4
N01-PS_INF	07-OCT-2014	P734708	pCi/L	1.5±6.0	26.0±6.0
N01-PEN	04-FEB-2014	P695707	pCi/L	13.0±6.1	23.2±5.6
N01-PEN	06-MAY-2014	P712475	pCi/L	6.7±5.6	23.3±5.5
N01-PEN	05-AUG-2014	P723717	pCi/L	3.0±3.5	20.3±4.2
N01-PEN	07-OCT-2014	P734713	pCi/L	5.7±5.0	21.2±4.8
N34-REC WATER	04-FEB-2014	P695717	pCi/L	-0.4±4.2	15.2±4.0
N34-REC WATER	06-MAY-2014	P712485	pCi/L	2.4±4.5	18.2±5.3
N34-REC WATER	05-AUG-2014	P723727	pCi/L	-0.7±4.8	22.7±4.8
N34-REC WATER	07-OCT-2014	P734723	pCi/L	0.1±3.3	20.1±4.2

ND= Not Detected

NR= Not Required

Units in picocuries per Liter (pCi/L)

- N34-REC WATER = NCWRP Reclaimed Water After Mixing
- N10-EFF = Primary Effluent
- N01-PS_INF = North City Pump Station Influent (PS #64)
- N01-PEN = Penasquitos Pump Station Influent

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Physical Parameters

Source: Date:	MDL Units	N01-PS_INF 04-FEB-2014	N01-PS_INF 06-MAY-2014	N01-PS_INF 05-AUG-2014	N01-PS_INF 07-OCT-2014
Ammonia-N	.3 MG/L	37.3	34.9	33.9	35.1
BOD (Biochemical Oxygen Demand)	2 MG/L	393	275	327	334
Hexane Extractable Material	1.2 MG/L	49.4	74.6	50.8	36.2
Chemical Oxygen Demand	18 MG/L	731	333	661	817
Conductivity	10 UMHOS/CM	1980	2200	1910	2400
MBAS (Surfactants)	.03 MG/L	7.19	6.69	5.84	5.02
pH (grab)	PH	6.2	7.1	6.8	7.0
Total Alkalinity (bicarbonate)	20 MG/L	310	321	285	320
Total Dissolved Solids	28 MG/L	1120	1170	984	1150
Total Suspended Solids	2.5 MG/L	416	150	380	320
Volatile Suspended Solids	2.5 MG/L	360	140	336	280
Total Kjeldahl Nitrogen	1.6 MG/L	64.1	59.1	52.3	60.9
Turbidity	.13 NTU	132	121	156	153
Sulfides-Total	.4 MG/L	3.0	2.1	3.6	4.1

Source: Date:	MDL Units	N01-PEN 04-FEB-2014	N01-PEN 06-MAY-2014	N01-PEN 05-AUG-2014	N01-PEN 07-OCT-2014
Ammonia-N	.3 MG/L	35.5	34.4	31.8	38.4
BOD (Biochemical Oxygen Demand)	2 MG/L	221	206	200	242
Hexane Extractable Material	1.2 MG/L	74.8	62.9	61.5	65.0
Chemical Oxygen Demand	18 MG/L	547	188	531	461
Conductivity	10 UMHOS/CM	1660	1750	1420	1730
MBAS (Surfactants)	.03 MG/L	6.16	5.77	5.77	4.88
pH (grab)	PH	6.7*	7.0	6.9*	7.2*
Total Alkalinity (bicarbonate)	20 MG/L	309	324	281	341
Total Dissolved Solids	28 MG/L	920	896	676	832
Total Suspended Solids	2.5 MG/L	256	98.0	276	276
Volatile Suspended Solids	2.5 MG/L	220	86.0	232	240
Total Kjeldahl Nitrogen	1.6 MG/L	54.2	53.9	42.0	54.1
Turbidity	.13 NTU	82.5	126	102	149
Sulfides-Total	.4 MG/L	6.1	5.3	2.8	4.3

*Grab sample analyzed out of holding time

ND= Not Detected
NR= Not Required

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Physical Parameters

Source:		N10-EFF	N10-EFF	N10-EFF	N10-EFF
Date:	MDL Units	04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
=====					
Ammonia-N	.3 MG/L	36.2	36.8	33.7	36.5
BOD (Biochemical Oxygen Demand)	2 MG/L	217	160	175	161
Hexane Extractable Material	1.2 MG/L	23.2	24.4	42.2	34.7
Chemical Oxygen Demand	18 MG/L	606	364	436	423
Conductivity	10 UMHOS/CM	1880	2030	1730	2130
MBAS (Surfactants)	.03 MG/L	5.92	5.36	5.28	4.58
pH (grab)	PH	7.1*	7.4	6.9*	7.3*
Total Alkalinity (bicarbonate)	20 MG/L	314	331	278	326
Total Dissolved Solids	28 MG/L	1080	1090	896	1060
Total Suspended Solids	2.5 MG/L	203	102	136	164
Volatile Suspended Solids	2.5 MG/L	177	90.0	116	138
Total Kjeldahl Nitrogen	1.6 MG/L	54.3	49.9	44.7	55.4
Turbidity	.13 NTU	92.5	76.2	89.9	117
Sulfides-Total	.4 MG/L	1.8	0.6	1.6	1.7

Source:		N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
Date:	MDL Units	04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
=====					
Ammonia-N	.3 MG/L	ND	ND	ND	ND
BOD (Biochemical Oxygen Demand)	2 MG/L	ND	ND	ND	ND
Hexane Extractable Material	1.2 MG/L	1.6	11.1	ND	1.8
Chemical Oxygen Demand	18 MG/L	ND	ND	ND	ND
Conductivity	10 UMHOS/CM	1420	1490	1410	1520
MBAS (Surfactants)	.03 MG/L	0.10	0.07	0.37	0.09
pH (grab)	PH	6.8	7.0	7.0	7.0
Total Alkalinity (bicarbonate)	20 MG/L	104	106	102	106
Total Dissolved Solids	28 MG/L	918	866	822	862
Total Suspended Solids	2.5 MG/L	ND	ND	ND	ND
Volatile Suspended Solids	2.5 MG/L	ND	ND	ND	ND
Total Kjeldahl Nitrogen	1.6 MG/L	ND	ND	ND	ND
Total Nitrogen	.78 MG/L	13.4	14.6	10.6	12.5
Total Organic Carbon	MG/L	6.5	6.7	7.4	8.0
Turbidity	.13 NTU	0.90	0.65	1.25	0.77
Sulfides-Total	.4 MG/L	ND	ND	ND	ND

*Grab sample analyzed out of holding time

ND= Not Detected

NR= Not Required

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Organo - Tins

Source:		N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695702	P712470	P723712	P734708
Tributyltin	2 UG/L	ND	ND	ND	ND
Dibutyltin	7 UG/L	ND	ND	ND	ND
Monobutyltin	16 UG/L	ND	ND	ND	ND

Source:		N01-PEN	N01-PEN	N01-PEN	N01-PEN
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695707	P712475	P723717	P734713
Tributyltin	2 UG/L	ND	ND	ND	ND
Dibutyltin	7 UG/L	ND	ND	ND	ND
Monobutyltin	16 UG/L	ND	ND	ND	ND

Source:		N10-EFF	N10-EFF	N10-EFF	N10-EFF
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695712	P712480	P723722	P734718
Tributyltin	2 UG/L	ND	ND	ND	ND
Dibutyltin	7 UG/L	ND	ND	ND	ND
Monobutyltin	16 UG/L	ND	ND	ND	ND

Source:		N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
Date:		04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
Sample ID:	MDL Units	P695717	P712485	P723727	P734723
Tributyltin	2 UG/L	ND	ND	ND	ND
Dibutyltin	7 UG/L	ND	ND	ND	ND
Monobutyltin	16 UG/L	ND	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Chlorinated Pesticides

Analyte	MDL	Units	N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
			04-FEB-2014 P695702	06-MAY-2014 P712470	05-AUG-2014 P723712	07-OCT-2014 P734708
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	4	NG/L	ND	ND	ND	ND
Dieldrin	4.3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	7	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	3.1	NG/L	ND	ND	ND	ND
Endrin	6	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	9.4	NG/L	ND	ND	ND	ND
Methoxychlor	20	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlorane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	750	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	30	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
=====						
Heptachlors	9.4	NG/L	0	0	0	0
Endosulfans	7	NG/L	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0
DDT and derivatives	8	NG/L	0	30	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0
Aldrin + Dieldrin	7	NG/L	0	0	0	0
=====						
Chlorinated Hydrocarbons	4000	NG/L	0	30	0	0

MDLs listed are the maximum MDL for the past 12 months

NA = Not Analyzed

ND = Not Detected

DNQ = Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Chlorinated Pesticides

Analyte	MDL	Units	N01-PEN	N01-PEN	N01-PEN	N01-PEN
			04-FEB-2014 P695707	06-MAY-2014 P712475	05-AUG-2014 P723717	07-OCT-2014 P734713
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	4	NG/L	ND	ND	ND	ND
Dieldrin	4.3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	7	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	3.1	NG/L	ND	ND	ND	ND
Endrin	6	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	9.4	NG/L	ND	ND	ND	ND
Methoxychlor	20	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	750	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	39	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
Heptachlors	9.4	NG/L	0	0	0	0
Endosulfans	7	NG/L	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0
DDT and derivatives	8	NG/L	0	39	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0
Aldrin + Dieldrin	7	NG/L	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	39	0	0

MDLs listed are the maximum MDL for the past 12 months

NA = Not Analyzed

ND = Not Detected

DNQ = Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Chlorinated Pesticides

Analyte	MDL	Units	N10-EFF	N10-EFF	N10-EFF	N10-EFF
			04-FEB-2014 P695712	06-MAY-2014 P712480	05-AUG-2014 P723722	07-OCT-2014 P734718
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	4	NG/L	ND	ND	ND	ND
Dieldrin	4.3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	7	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	3.1	NG/L	ND	ND	ND	ND
Endrin	6	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	9.4	NG/L	ND	ND	ND	ND
Methoxychlor	20	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	750	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	35	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
Heptachlors	9.4	NG/L	0	0	0	0
Endosulfans	7	NG/L	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0
DDT and derivatives	8	NG/L	0	35	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0
Aldrin + Dieldrin	7	NG/L	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	35	0	0

MDLs listed are the maximum MDL for the past 12 months

NA = Not Analyzed

ND = Not Detected

DNQ = Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Chlorinated Pesticides

Analyte	MDL	Units	N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
			04-FEB-2014 P695717	06-MAY-2014 P712485	05-AUG-2014 P723727	07-OCT-2014 P734723
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	85	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	4	NG/L	ND	ND	ND	ND
Dieldrin	4.3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	7	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	3.1	NG/L	ND	ND	ND	ND
Endrin	6	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	9.4	NG/L	ND	ND	ND	ND
Methoxychlor	20	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	750	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
Heptachlors	9.4	NG/L	0	0	0	0
Endosulfans	7	NG/L	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	85	0	0
Aldrin + Dieldrin	7	NG/L	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	85	0	0

MDLs listed are the maximum MDL for the past 12 months

NA = Not Analyzed

ND = Not Detected

DNQ = Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Base/Neutral Compounds

Analyte	MDL	Units	N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695702	P712470	P723712	P734708
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	4.6	4.3	3.8	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	10.1	9.7	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	3.1	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	4.60	14.40	16.60	0.00

Additional analytes determined

1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND
Pyridine	3.33	UG/L	ND	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Base/Neutral Compounds

Analyte	MDL	Units	N01-PEN	N01-PEN	N01-PEN	N01-PEN
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695707	P712475	P723717	P734713
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	4.1	3.4	5.0	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	9.2	ND	17.3	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	5.3	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	13.30	3.40	27.60	0.00

Additional analytes determined

1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND
Pyridine	3.33	UG/L	3.9	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Base/Neutral Compounds

Analyte	MDL	Units	N10-EFF	N10-EFF	N10-EFF	N10-EFF
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695712	P712480	P723722	P734718
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	4.0	4.4	3.9	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	9.1	ND	9.7	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	13.10	4.40	13.60	0.00

Additional analytes determined

1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND
Pyridine	3.33	UG/L	3.6	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Base/Neutral Compounds

Analyte	MDL	Units	N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695717	P712485	P723727	P734723
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	217.0	101.0
Benzidine	1.52	UG/L	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	0.00	0.00	217.00	101.00

Additional analytes determined

1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND
Pyridine	3.33	UG/L	ND	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Organophosphorous Pesticides

Analyte	MDL	Units	N01-PS_INF	N01-PS_INF	N01-PEN	N01-PEN
			06-MAY-2014 P712470	07-OCT-2014 P734708	06-MAY-2014 P712475	07-OCT-2014 P734713
Demeton O	.15	UG/L	ND	ND	ND	ND
Demeton S	.403	UG/L	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND
Malathion	.051	UG/L	ND	ND	ND	ND
Parathion	.032	UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.000	0.000	0.000	0.000
Demeton -O, -S	.403	UG/L	0.000	0.000	0.000	0.000
Total Organophosphorus Pesticides	.403	UG/L	0.000	0.000	0.000	0.000
Dichlorvos	.05	UG/L	ND	ND	ND	ND
Disulfoton	.175	UG/L	ND	ND	ND	ND
Dimethoate	.189	UG/L	ND	ND	ND	ND
Stirophos	.034	UG/L	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND
Chlorpyrifos	.034	UG/L	ND	ND	ND	ND

Analyte	MDL	Units	N10-EFF	N10-EFF	N34-REC WATER	N34-REC WATER
			06-MAY-2014 P712480	07-OCT-2014 P734718	06-MAY-2014 P712485	07-OCT-2014 P734723
Demeton O	.15	UG/L	ND	ND	ND	ND
Demeton S	.403	UG/L	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND
Malathion	.051	UG/L	ND	ND	ND	ND
Parathion	.032	UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.000	0.000	0.000	0.000
Demeton -O, -S	.403	UG/L	0.000	0.000	0.000	0.000
Total Organophosphorus Pesticides	.403	UG/L	0.000	0.000	0.000	0.000
Dichlorvos	.05	UG/L	ND	ND	ND	ND
Disulfoton	.175	UG/L	ND	ND	ND	ND
Dimethoate	.189	UG/L	ND	ND	ND	ND
Stirophos	.034	UG/L	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND
Chlorpyrifos	.034	UG/L	ND	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Benzidines

Source:			N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
Date:			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
	MDL	Units	P695702	P712470	P723712	P734708
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND

Source:			N01-PEN	N01-PEN	N01-PEN	N01-PEN
Date:			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
	MDL	Units	P695707	P712475	P723717	P734713
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND

Source:			N10-EFF	N10-EFF	N10-EFF	N10-EFF
Date:			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
	MDL	Units	P695712	P712480	P723722	P734718
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND

Source:			N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
Date:			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
	MDL	Units	P695717	P712485	P723727	P734723
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Phenolic Compounds

Analyte	MDL	Units	N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
			04-FEB-2014 P695702	06-MAY-2014 P712470	05-AUG-2014 P723712	07-OCT-2014 P734708
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND
Phenol	1.76	UG/L	27.9	33.2	26.4	ND
=====						
Total Non-Chlorinated Phenols	2.16	UG/L	27.9	33.2	26.4	0.00
Total Chlorinated Phenols	1.67	UG/L	0.00	0.00	0.00	0.00
=====						
Phenols	2.16	UG/L	27.9	33.2	26.4	0.00

Additional analytes determined

2-Methylphenol	2.15	UG/L	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	72.6	56.3	56.5	46.2
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND

Analyte	MDL	Units	N01-PEN	N01-PEN	N01-PEN	N01-PEN
			04-FEB-2014 P695707	06-MAY-2014 P712475	05-AUG-2014 P723717	07-OCT-2014 P734713
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND
Phenol	1.76	UG/L	44.8	16.0	4.87	ND
=====						
Total Non-Chlorinated Phenols	2.16	UG/L	44.8	16.0	4.87	0.00
Total Chlorinated Phenols	1.67	UG/L	0.00	0.00	0.00	0.00
=====						
Phenols	2.16	UG/L	44.8	16.0	4.87	0.00

Additional analytes determined

2-Methylphenol	2.15	UG/L	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	52.9	30.9	7.12	8.38
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND

ND= Not Detected
NA= Not Analyzed

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT

2014

Phenolic Compounds

Analyte	MDL	Units	N10-EFF	N10-EFF	N10-EFF	N10-EFF
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695712	P712480	P723722	P734718
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND
Phenol	1.76	UG/L	27.0	21.9	18.3	22.0
Total Non-Chlorinated Phenols			27.0	21.9	18.3	22.0
Total Chlorinated Phenols			0.00	0.00	0.00	0.00
Phenols			27.0	21.9	18.3	22.0

Additional analytes determined

2-Methylphenol	2.15	UG/L	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	67.5	37.2	37.1	39.6
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND

Analyte	MDL	Units	N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695717	P712485	P723727	P734723
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND
Phenol	1.76	UG/L	ND	ND	ND	ND
Total Non-Chlorinated Phenols			0.00	0.00	0.00	0.00
Total Chlorinated Phenols			0.00	0.00	0.00	0.00
Phenols			0.00	0.00	0.00	0.00

Additional analytes determined

2-Methylphenol	2.15	UG/L	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	ND	ND	ND	ND
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND

ND= Not Detected
NA= Not Analyzed

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Priority Pollutants Purgeable Compounds, EPA Method 8260B

Analyte	MDL	Units	N01-PS_INF	N01-PS_INF	N01-PS_INF	N01-PS_INF
			04-FEB-2014	06-MAY-2014	05-AUG-2014	07-OCT-2014
			P695705	P712473	P723715	P734711
Chloromethane	.5	UG/L	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND
Methylene chloride	.3	UG/L	2.1	1.1	1.4	1.9
1,1-Dichloroethene	.4	UG/L	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND
Chloroform	.2	UG/L	2.6	2.6	2.0	3.3
1,2-Dichloroethane	.5	UG/L	ND	ND	ND	ND
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	ND	ND	DNQ 1.0
1,2-Dichloropropane	.3	UG/L	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	ND	ND	DNQ 0.6
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	.5	UG/L	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	DNQ 0.7	ND	ND	ND
Toluene	.4	UG/L	210.0	4.7	10.5	3.6
Ethylbenzene	.3	UG/L	7.8	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,4-Dichlorobenzene	.4	UG/L	2.1	1.4	DNQ 0.7	ND
1,3-Dichlorobenzene	.5	UG/L	ND	ND	ND	ND
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	1.6
Purgeable Compounds	1.3	UG/L	222.5	8.4	13.9	8.8
Total Dichlorobenzenes	.5	UG/L	2.1	1.4	0.7	0.0

Additional analytes determined

Allyl chloride	.6	UG/L	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND
1,2,4-Trichlorobenzene	.7	UG/L	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND
Acetone	4.5	UG/L	157	159	228	242
Carbon disulfide	.6	UG/L	4.6	3.7	2.5	3.0
2-Butanone	6.3	UG/L	DNQ 13.6	DNQ 9.4	DNQ 9.7	DNQ 7.3
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND

ND = Not Detected

DNQ= Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL.

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Priority Pollutants Purgeable Compounds, EPA Method 8260B

Analyte	MDL	Units	N01-PEN	N01-PEN	N01-PEN	N01-PEN
			04-FEB-2014 P695710	06-MAY-2014 P712478	05-AUG-2014 P723720	07-OCT-2014 P734716
Chloromethane	.5	UG/L	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND
Methylene chloride	.3	UG/L	DNQ 0.8	DNQ 0.7	DNQ 0.7	34.6
1,1-Dichloroethene	.4	UG/L	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND
Chloroform	.2	UG/L	2.0	2.0	1.4	1.3
1,2-Dichloroethane	.5	UG/L	ND	ND	ND	ND
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	ND	ND	ND
1,2-Dichloropropane	.3	UG/L	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	ND	ND	ND
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	.5	UG/L	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND
Toluene	.4	UG/L	DNQ 0.5	DNQ 0.8	DNQ 0.5	DNQ 0.8
Ethylbenzene	.3	UG/L	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,4-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,3-Dichlorobenzene	.5	UG/L	ND	ND	ND	ND
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0
Purgeable Compounds	1.3	UG/L	2.0	2.0	1.4	35.9
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0
Additional analytes determined						
Allyl chloride	.6	UG/L	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND
1,2,4-Trichlorobenzene	.7	UG/L	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND
Acetone	4.5	UG/L	198	219	802	381
Carbon disulfide	.6	UG/L	21.6	28.0	2.7	3.7
2-Butanone	6.3	UG/L	ND	DNQ 7.8	DNQ 6.8	DNQ 6.8
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND

ND = Not Detected

DNQ= Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL.

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Priority Pollutants Purgeable Compounds, EPA Method 8260B

Analyte	MDL	Units	N10-EFF	N10-EFF	N10-EFF	N10-EFF
			04-FEB-2014 P695715	06-MAY-2014 P712483	05-AUG-2014 P723725	07-OCT-2014 P734721
Chloromethane	.5	UG/L	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND
Methylene chloride	.3	UG/L	DNQ 1.6	1.5	2.1	1.4
1,1-Dichloroethene	.4	UG/L	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND
Chloroform	.2	UG/L	1.6	1.8	2.6	1.8
1,2-Dichloroethane	.5	UG/L	ND	ND	ND	ND
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	ND	DNQ 0.9	ND
1,2-Dichloropropane	.3	UG/L	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	ND	DNQ 0.7	ND
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	.5	UG/L	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND
Toluene	.4	UG/L	DNQ 1.3	1.3	3.1	1.8
Ethylbenzene	.3	UG/L	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,4-Dichlorobenzene	.4	UG/L	ND	DNQ 0.5	DNQ 0.7	ND
1,3-Dichlorobenzene	.5	UG/L	ND	ND	ND	ND
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	1.6	0.0
Purgeable Compounds	1.3	UG/L	1.6	4.6	7.8	5.0
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0

Additional analytes determined

Allyl chloride	.6	UG/L	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND
1,2,4-Trichlorobenzene	.7	UG/L	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND
Acetone	4.5	UG/L	238	368	582	538
Carbon disulfide	.6	UG/L	3.7	4.9	2.9	4.2
2-Butanone	6.3	UG/L	DNQ 9.1	10.7	16.2	DNQ 8.2
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND

ND = Not Detected

DNQ= Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL.

NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2014

Priority Pollutants Purgeable Compounds, EPA Method 8260B

Analyte	MDL	Units	N34-REC WATER	N34-REC WATER	N34-REC WATER	N34-REC WATER
			04-FEB-2014 P695720	06-MAY-2014 P712488	05-AUG-2014 P723730	07-OCT-2014 P734726
Chloromethane	.5	UG/L	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND
Methylene chloride	.3	UG/L	DNQ 0.4	ND	DNQ 0.5	ND
1,1-Dichloroethene	.4	UG/L	ND	ND	ND	ND
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND
Chloroform	.2	UG/L	43.2	43.5	47.7	41.4
1,2-Dichloroethane	.5	UG/L	ND	ND	ND	ND
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	32.5	35.5	45.7	40.1
1,2-Dichloropropane	.3	UG/L	ND	ND	ND	ND
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	19.6	21.6	31.4	26.9
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND
Bromoform	.5	UG/L	2.2	2.6	4.1	3.3
1,1,2,2-Tetrachloroethane	.5	UG/L	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND
Toluene	.4	UG/L	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,4-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND
1,3-Dichlorobenzene	.5	UG/L	ND	ND	ND	ND
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	54.3	59.7	81.2	70.3
Purgeable Compounds	1.3	UG/L	97.5	103.2	128.9	111.7
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0
Additional analytes determined						
Allyl chloride	.6	UG/L	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND
1,2,4-Trichlorobenzene	.7	UG/L	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND
Acetone	4.5	UG/L	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	ND	ND	ND	ND
2-Butanone	6.3	UG/L	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND

ND = Not Detected

DNQ= Detected but not quantified. Sample results were less than Minimum Level (ML), but greater than or equal to the MDL.