



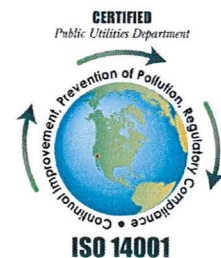
# **ANNUAL MONITORING REPORT**

## **NORTH CITY WATER RECLAMATION PLANT**

SDRWQCB Order No. R9-2015-0091

# **2017**

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



February 28, 2018

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

Attention: Groundwater Basins Branch

Subject: North City Water Reclamation Plant Annual Report Regional Board  
Code No. POTW: 01-0730.01:hansd

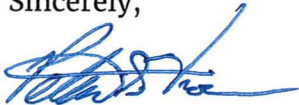
Dear Mr. Gibson:

Enclosed is the Annual Monitoring Report for 2017 for the City of San Diego North City Water Reclamation Plant, as specified in Monitoring and Reporting Program No. R9-2015-0091 for the production and purveyance of reclaimed water.

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sincerely,



Peter S. Vroom, Ph.D.  
Public Utilities Deputy Director

DC:alm

Enclosure

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

## 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 the 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

|                                   |           | PLE<br>10-MAR-1998<br>0311980006 | PLE<br>27-APR-1998<br>0428980006 | PLE<br>10-SEP-1998<br>9809107494 | PLR<br>10-MAR-1998<br>0311980007 | PLR<br>27-APR-1998<br>0428980007 | PLR<br>10-SEP-1998<br>9809107515 |
|-----------------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                                   | MDL Units |                                  |                                  |                                  |                                  |                                  |                                  |
| 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  $\pm 100\%$  of the result at or near the MDL. Only at concentrations approximately 5 times the MDL is the confidence interval at  $\pm 20\%$  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 Lab Code: 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  
(509)375-3131

***Gross Alpha/Beta Radioactivity***

Test America Sacramento  
ELAP Certificate: 2897  
880 Riverside Parkway  
West Sacramento, CA 95605  
(916)373-5600

***Tetra Chlorinated Dioxin (2,3,7,8-TCDD)***

LA Testing  
ELAP Certificate: 2283  
520 Mission Street  
South Pasadena, CA 91030  
(323)254-9960

***Asbestos Analysis***



Graphs:

Graphs of monthly averages show the arithmetic mean of the determinations made in the calendar month without weighing 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

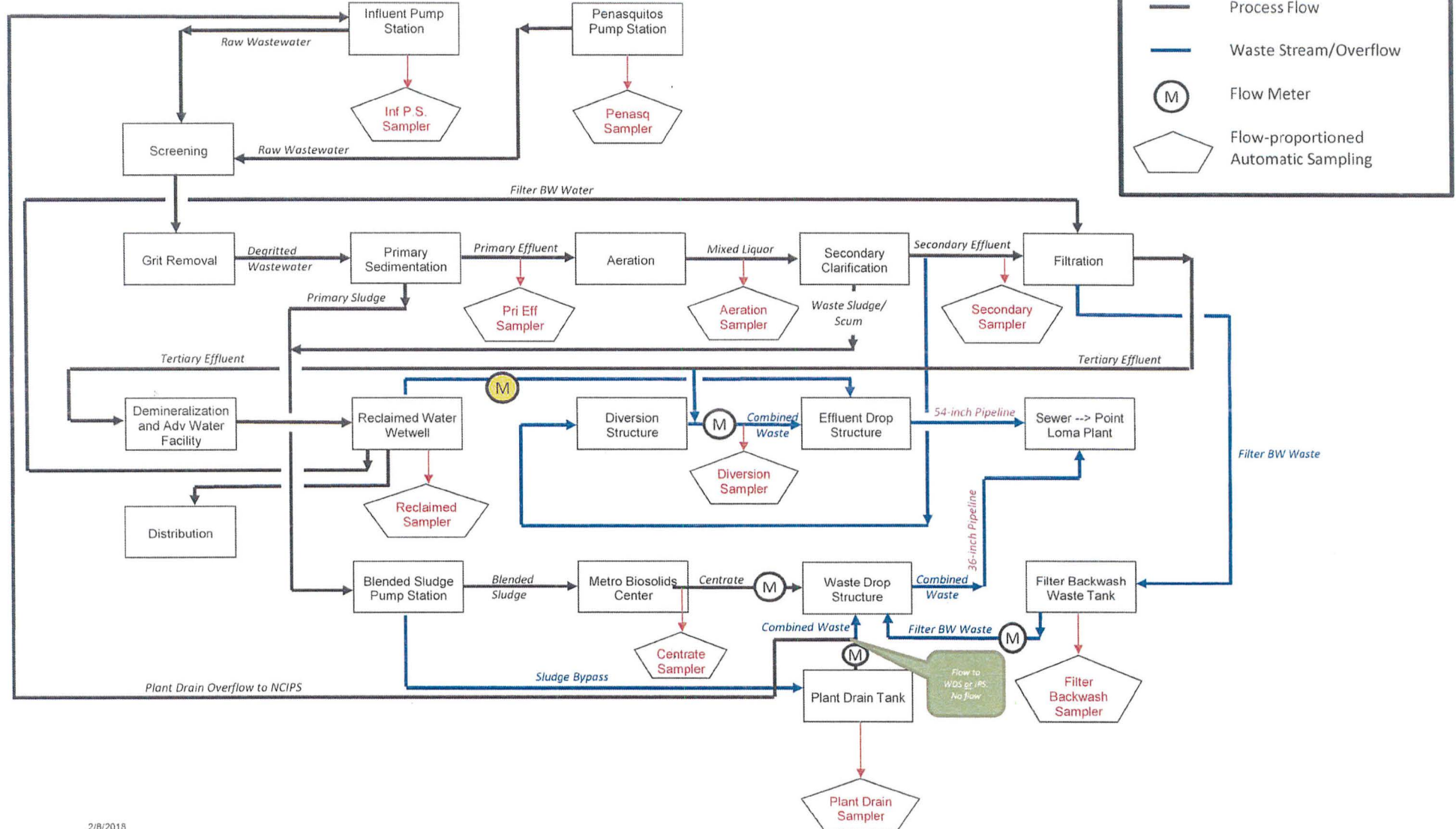
|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| N01-PEN       | Penasquitos Influent Pump Station                                                   |
| 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 2017

| <u>Name</u>                                 | <u>Grade</u> | <u>Cert. No.</u> | <u>Expiration Date</u> |
|---------------------------------------------|--------------|------------------|------------------------|
| <u>Chief Plant Operator</u>                 |              |                  |                        |
| Guerreiro, Juan                             | V            | 27670            | 12/31/2020             |
| <u>North City Plant Superintendent</u>      |              |                  |                        |
| Pitchford, Richard                          | V            | 9851             | 06/30/2020             |
| Thomas Rosales                              | V            | 7529             | 12/14/2018             |
| <u>North City Sr. Operations Supervisor</u> |              |                  |                        |
| Pinto, Elisabete                            | V            | 10265            | 06/30/2020             |
| <u>North City Operations Supervisors</u>    |              |                  |                        |
| Jacques, Richie                             | III          | 27921            | 06/30/2018             |
| Carroll, John C.                            | V            | 28867            | 06/09/2020             |
| Cozad, John L.                              | III          | 7138             | 12/31/2020             |
| Relph, Robert W.                            | III          | 6742             | 12/31/2018             |
| <u>North City Sr. Operators</u>             |              |                  |                        |
| William L. Mercado                          | III          | 41838            | 09/23/2020             |
| <u>North City Operators</u>                 |              |                  |                        |
| Squyres, Traci L.                           | III          | 35602            | 10/31/2018             |
| Duresseau, Gabriel L.                       | II           | 28294            | 06/30/2018             |
| Gonzalez-Bueno, Noemi                       | II           | 41833            | 10/31/2018             |
| Gutierrez, Marlene E.                       | II           | 9636             | 06/30/2020             |
| Saulog, Noel S.                             | II           | 10299            | 12/31/2018             |
| Wendorf, George P.                          | II           | 9774             | 12/31/2020             |
| Strunk, Robert E.                           | II           | 42439            | 09/27/2018             |
| Gonzalez, Adolfo                            | II           | 40774            | 05/05/2020             |
| Hullin, Marshall D.                         | III          | 42679            | 04/11/2020             |
| Birchett, Mathew S.                         | OIT-2        | N/A              | 04/04/2020             |
| Mohammed, Nahdia Z.                         | OIT-1        | N/A              | 04/04/2020             |
| <u>Trussell Technologies</u>                |              |                  |                        |
| Pisarenko, Aleksey N.                       | V            | 41526            | 01/25/2021             |
| Chen, Elise C.                              | V            | 42568            | 01/08/2021             |
| Kolakovsky, Aviv                            | III          | 43071            | 02/01/2020             |
| Abordo, Gene L.                             | OIT-1        | N/A              | 08/18/2018             |
| Tackaert, Rodrigo A.                        | OIT-1        | N/A              | 08/18/2018             |

## Existing NCWRP Sampling Schematic

(Prepared by Rob Relph; Version 2)





North City Water Reclamation Plant  
2017 Monthly Totals - Millions of Gallons

| Month   | Penas-<br>quitos<br>Influent<br>(MG) | Headworks<br>Flow 36"<br>(MG) | Plant<br>Drain<br>Influent<br>(MG) | Disinfect<br>Final<br>Effluent<br>(MG) | Reclaim<br>Water<br>(MG) | N Return<br>(MG) | FES<br>Filter<br>Effluent<br>(MG) | Primary<br>Effluent<br>(MG) | Primary<br>Sludge<br>(MG) | WAS<br>Hi Cap<br>sludge<br>(MG) | WAS<br>Lo Cap<br>sludge<br>(MG) | Filter<br>Backwash<br>(MG) | Total<br>Sludge<br>Flow<br>to MBC<br>(MG) |
|---------|--------------------------------------|-------------------------------|------------------------------------|----------------------------------------|--------------------------|------------------|-----------------------------------|-----------------------------|---------------------------|---------------------------------|---------------------------------|----------------------------|-------------------------------------------|
| 01      | 223.0                                | 312.6                         | 15.6                               | 14.9                                   | 47.1                     | 443.19           | 180.37                            | 523.74                      | 14.83                     | 9.84                            | .00                             | 14.38                      | 26.17                                     |
| 02      | 216.9                                | 278.4                         | 19.1                               | 15.8                                   | 33.7                     | 410.57           | 155.50                            | 470.72                      | 18.34                     | 9.15                            | .00                             | 12.67                      | 24.52                                     |
| 03      | 223.5                                | 239.9                         | 16.5                               | 17.8                                   | 81.9                     | 387.09           | 193.91                            | 502.41                      | 14.78                     | 9.85                            | .00                             | 9.54                       | 29.50                                     |
| 04      | 188.3                                | 274.4                         | 16.8                               | 16.3                                   | 156.0                    | 285.65           | 242.87                            | 464.45                      | 19.69                     | 9.27                            | .00                             | 7.04                       | 28.66                                     |
| 05      | 188.5                                | 291.0                         | 21.2                               | 16.8                                   | 200.0                    | 266.71           | 273.80                            | 480.68                      | 32.51                     | 9.73                            | .00                             | 9.73                       | 29.00                                     |
| 06      | 158.2                                | 304.1                         | 20.2                               | 14.3                                   | 250.2                    | 191.65           | 277.34                            | 465.06                      | 19.80                     | 9.80                            | .00                             | 9.62                       | 28.95                                     |
| 07      | 154.6                                | 323.4                         | 17.7                               | 16.4                                   | 302.1                    | 173.69           | 334.53                            | 494.26                      | 15.95                     | 9.78                            | .00                             | 12.86                      | 30.23                                     |
| 08      | 147.6                                | 340.0                         | 16.1                               | 19.4                                   | 288.3                    | 210.36           | 320.07                            | 511.16                      | 20.08                     | 9.83                            | .00                             | 11.00                      | 30.25                                     |
| 09      | 139.6                                | 329.4                         | 30.6                               | 18.3                                   | 261.9                    | 208.38           | 324.24                            | 495.67                      | 15.59                     | 9.75                            | .00                             | 12.53                      | 27.11                                     |
| 10      | 147.3                                | 340.9                         | 21.1                               | 20.6                                   | 248.2                    | 248.12           | 299.15                            | 511.54                      | 20.06                     | 10.09                           | .00                             | 10.89                      | 29.78                                     |
| 11      | 126.7                                | 324.4                         | 20.0                               | 22.9                                   | 178.7                    | 275.94           | 220.82                            | 485.60                      | 14.21                     | 10.61                           | .00                             | 11.28                      | 29.34                                     |
| 12      | 141.6                                | 332.8                         | 22.9                               | 25.3                                   | 172.1                    | 302.81           | 216.06                            | 511.07                      | 19.87                     | 11.12                           | .00                             | 7.65                       | 28.93                                     |
| Average | 171.3                                | 307.6                         | 19.8                               | 18.2                                   | 185.0                    | 283.68           | 253.22                            | 493.03                      | 18.81                     | 9.90                            | .00                             | 10.77                      | 28.54                                     |
| Total   | 2055.6                               | 3691.2                        | 237.6                              | 218.6                                  | 2220.1                   | 3404.16          | 3038.66                           | 5916.36                     | 225.71                    | 118.82                          | .00                             | 129.19                     | 342.44                                    |

Reclaim Water = Distribution Water

North City Water Reclamation Plant  
2017 Monthly Averages - Millions of Gallons

| Month   | Penas-<br>quitos<br>Influent<br>(MG) | Headworks<br>Flow 36"<br>(MG) | Plant<br>Drain<br>Influent<br>(MG) | Disinfect<br>Final<br>Effluent<br>(MG) | Reclaim<br>Water<br>(MG) | N Return<br>(MG) | FES<br>Filter<br>Effluent<br>(MG) | Primary<br>Effluent<br>(MG) | Primary<br>Sludge<br>(MG) | WAS<br>Hi Cap<br>sludge<br>(MG) | WAS<br>Lo Cap<br>sludge<br>(MG) | Filter<br>Backwash<br>(MG) | Total<br>Sludge<br>Flow<br>to MBC<br>(MG) |
|---------|--------------------------------------|-------------------------------|------------------------------------|----------------------------------------|--------------------------|------------------|-----------------------------------|-----------------------------|---------------------------|---------------------------------|---------------------------------|----------------------------|-------------------------------------------|
| 01      | 7.2                                  | 10.1                          | .5                                 | .5                                     | 1.5                      | 14.30            | 5.82                              | 16.89                       | .48                       | .32                             | .00                             | .46                        | .84                                       |
| 02      | 7.7                                  | 9.9                           | .7                                 | .6                                     | 1.2                      | 14.66            | 5.55                              | 16.81                       | .66                       | .33                             | .00                             | .45                        | .88                                       |
| 03      | 7.2                                  | 7.7                           | .5                                 | .6                                     | 2.6                      | 12.49            | 6.26                              | 16.21                       | .48                       | .32                             | .00                             | .31                        | .95                                       |
| 04      | 6.3                                  | 9.1                           | .6                                 | .5                                     | 5.2                      | 9.52             | 8.10                              | 15.48                       | .66                       | .31                             | .00                             | .23                        | .96                                       |
| 05      | 6.1                                  | 9.4                           | .7                                 | .5                                     | 6.5                      | 8.60             | 8.83                              | 15.51                       | 1.05                      | .31                             | .00                             | .31                        | .94                                       |
| 06      | 5.3                                  | 10.1                          | .7                                 | .5                                     | 8.3                      | 6.39             | 9.24                              | 15.50                       | .66                       | .33                             | .00                             | .32                        | .97                                       |
| 07      | 5.0                                  | 10.4                          | .6                                 | .5                                     | 9.7                      | 5.60             | 10.79                             | 15.94                       | .51                       | .32                             | .00                             | .41                        | .98                                       |
| 08      | 4.8                                  | 11.0                          | .5                                 | .6                                     | 9.3                      | 6.79             | 10.32                             | 16.49                       | .65                       | .32                             | .00                             | .35                        | .98                                       |
| 09      | 4.7                                  | 11.0                          | 1.0                                | .6                                     | 8.7                      | 6.95             | 10.81                             | 16.52                       | .52                       | .33                             | .00                             | .42                        | .90                                       |
| 10      | 4.8                                  | 11.0                          | .7                                 | .7                                     | 8.0                      | 8.00             | 9.65                              | 16.50                       | .65                       | .33                             | .00                             | .35                        | .96                                       |
| 11      | 4.2                                  | 10.8                          | .7                                 | .8                                     | 6.0                      | 9.20             | 7.36                              | 16.19                       | .47                       | .35                             | .00                             | .38                        | .98                                       |
| 12      | 4.6                                  | 10.7                          | .7                                 | .8                                     | 5.6                      | 9.77             | 6.97                              | 16.49                       | .64                       | .36                             | .00                             | .25                        | .93                                       |
| Average | 5.6                                  | 10.1                          | .7                                 | .6                                     | 6.1                      | 9.36             | 8.31                              | 16.21                       | .62                       | .33                             | .00                             | .35                        | .94                                       |

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 <sup>1</sup> | Maximum Daily <sup>2</sup> | Time <sup>3</sup>     |
| Operations 2017                                                    | Chlorine Residual          | Chlorine Residual          | CT less than          |
| Date                                                               | (mg/L)                     | (mg/L)                     | 450 mg-min/l<br>(min) |
| Jan                                                                | 3.63                       | 5.81                       | 0                     |
| Feb                                                                | 3.74                       | 5.42                       | 0                     |
| Mar                                                                | 3.73                       | 6.29                       | 0                     |
| Apr                                                                | 2.66                       | 5.59                       | 0                     |
| May                                                                | 3.11                       | 5.10                       | 0                     |
| Jun                                                                | 3.28                       | 6.66                       | 0                     |
| Jul                                                                | 3.08                       | 6.21                       | 0                     |
| Aug                                                                | 3.17                       | 5.25                       | 0                     |
| Sep                                                                | 3.24                       | 4.99                       | 0                     |
| Oct                                                                | 3.25                       | 5.56                       | 0                     |
| Nov                                                                | 3.17                       | 5.09                       | 0                     |
| Dec                                                                | 3.25                       | 4.95                       | 0                     |
| Average:                                                           | 3.28                       | 5.58 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<br>2017<br>Date | Tot. Coliform<br>(7-day median Avg)<br>(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 <sup>4</sup>                                                                                                                                                   |               |                            |                            |                        |
|                                                                                                                                                                                         |               |                            |                            |                        |
|                                                                                                                                                                                         | Average Daily | Minimum Daily <sup>1</sup> | Maximum Daily <sup>2</sup> | Time Over <sup>3</sup> |
| Operations<br>2017                                                                                                                                                                      | Turbidity     | Turbidity                  | Turbidity                  | 5 NTU's                |
| Date                                                                                                                                                                                    | (NTU)         | (NTU)                      | (NTU)                      | (MINUTES)              |
| Jan                                                                                                                                                                                     | 0.19          | 0.16                       | 0.70                       | 0.00                   |
| Feb                                                                                                                                                                                     | 0.35          | 0.26                       | 0.47                       | 0.00                   |
| Mar                                                                                                                                                                                     | 0.31          | 0.27                       | 0.46                       | 0.00                   |
| Apr                                                                                                                                                                                     | 0.18          | 0.16                       | 0.29                       | 0.00                   |
| May                                                                                                                                                                                     | 0.37          | 0.32                       | 0.47                       | 0.00                   |
| Jun                                                                                                                                                                                     | 0.21          | 0.19                       | 0.30                       | 0.00                   |
| Jul                                                                                                                                                                                     | 0.20          | 0.17                       | 0.55                       | 0.00                   |
| Aug                                                                                                                                                                                     | 0.32          | 0.27                       | 0.79                       | 0.00                   |
| Sep                                                                                                                                                                                     | 0.33          | 0.30                       | 0.63                       | 0.00                   |
| Oct                                                                                                                                                                                     | 0.29          | 0.25                       | 0.46                       | 0.00                   |
| Nov                                                                                                                                                                                     | 0.23          | 0.19                       | 0.40                       | 0.00                   |
| Dec                                                                                                                                                                                     | 0.23          | 0.20                       | 0.34                       | 0.00                   |
| Average:                                                                                                                                                                                | 0.27          | 0.23                       | 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 (N25AIT673) or (N25AIT674), located at meter room of Area 25 (Tertiary Filter Structures) |               |                            |                            |                        |



# NORTH CITY WATER RECLAMATION PLANT

Monthly/Annual Averages - Daily Parameters

From: 01-Jan-2017 — 31-Dec-2017

## (N01-PEN) Penasquitos Pump Station Influent

|                | Biochemical<br>Oxygen<br>Demand<br>(mg/L) | Total<br>Dissolved<br>Solids<br>(mg/L) | Total<br>Suspended<br>Solids<br>(mg/L) | Volatile<br>Suspended<br>Solids<br>(mg/L) | Turbidity<br>(NTU) | pH<br>COMPOSITE<br>(pH) |
|----------------|-------------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|--------------------|-------------------------|
| January-2017   | 274                                       | 988                                    | 354                                    | 295                                       | 139                | 7.43                    |
| February-2017  | 264                                       | 962                                    | 334                                    | 284                                       | 129                | 7.49                    |
| March-2017     | 271                                       | 1020                                   | 338                                    | 294                                       | 114                | 7.55                    |
| April-2017     | 303                                       | 736                                    | 312                                    | 271                                       | 112                | 7.57                    |
| May-2017       | 297                                       | 696                                    | 333                                    | 289                                       | 121                | 7.54                    |
| June-2017      | 302                                       | 744                                    | 374                                    | 331                                       | 100                | 7.48                    |
| July-2017      | 292                                       | 677                                    | 321                                    | 279                                       | 109                | 7.43                    |
| August-2017    | 275                                       | 641                                    | 318                                    | 274                                       | 103                | 7.48                    |
| September-2017 | 269                                       | 659                                    | 336                                    | 283                                       | 109                | 7.55                    |
| October-2017   | 295                                       | 663                                    | 349                                    | 300                                       | 104                | 7.48                    |
| November-2017  | 277                                       | 675                                    | 337                                    | 295                                       | 121                | 7.44                    |
| December-2017  | 297                                       | 655                                    | 338                                    | 293                                       | 113                | 7.45                    |
| Average:       | 285                                       | 760                                    | 337                                    | 291                                       | 115                | 7.49                    |
| Maximum:       | 303                                       | 1020                                   | 374                                    | 331                                       | 139                | 7.57                    |
| Minimum:       | 264                                       | 641                                    | 312                                    | 271                                       | 100                | 7.43                    |

## (N01-PS\_INF) Pump Station 64

|                | Biochemical<br>Oxygen<br>Demand<br>(mg/L) | Total<br>Dissolved<br>Solids<br>(mg/L) | Total<br>Suspended<br>Solids<br>(mg/L) | Volatile<br>Suspended<br>Solids<br>(mg/L) | Turbidity<br>(NTU) | pH<br>COMPOSITE<br>(pH) |
|----------------|-------------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|--------------------|-------------------------|
| January-2017   | 263                                       | 1140                                   | 257                                    | 227                                       | 125                | 7.35                    |
| February-2017  | 272                                       | 1140                                   | 287                                    | 250                                       | 119                | 7.34                    |
| March-2017     | 284                                       | 1200                                   | 285                                    | 253                                       | 122                | 7.43                    |
| April-2017     | 387                                       | 1030                                   | 313                                    | 281                                       | 140                | 7.32                    |
| May-2017       | 360                                       | 998                                    | 315                                    | 278                                       | 151                | 7.36                    |
| June-2017      | 373                                       | 1050                                   | 339                                    | 301                                       | 128                | 7.19                    |
| July-2017      | 347                                       | 983                                    | 330                                    | 296                                       | 142                | 7.27                    |
| August-2017    | 338                                       | 908                                    | 308                                    | 276                                       | 134                | 7.27                    |
| September-2017 | 315                                       | 923                                    | 306                                    | 273                                       | 128                | 7.32                    |
| October-2017   | 334                                       | 935                                    | 316                                    | 283                                       | 126                | 7.29                    |
| November-2017  | 360                                       | 938                                    | 313                                    | 278                                       | 139                | 7.26                    |
| December-2017  | 384                                       | 934                                    | 336                                    | 296                                       | 141                | 7.29                    |
| Average:       | 335                                       | 1015                                   | 309                                    | 274                                       | 133                | 7.31                    |
| Maximum:       | 387                                       | 1200                                   | 339                                    | 301                                       | 151                | 7.43                    |
| Minimum:       | 263                                       | 908                                    | 257                                    | 227                                       | 119                | 7.19                    |

All samples are 24-hour composite

### NORTH CITY WATER RECLAMATION PLANT

(N34-REC) Reclaimed Water - Monthly/Annual Averages - Daily Parameters

From: 01-Jan-2017 — 31-Dec-2017

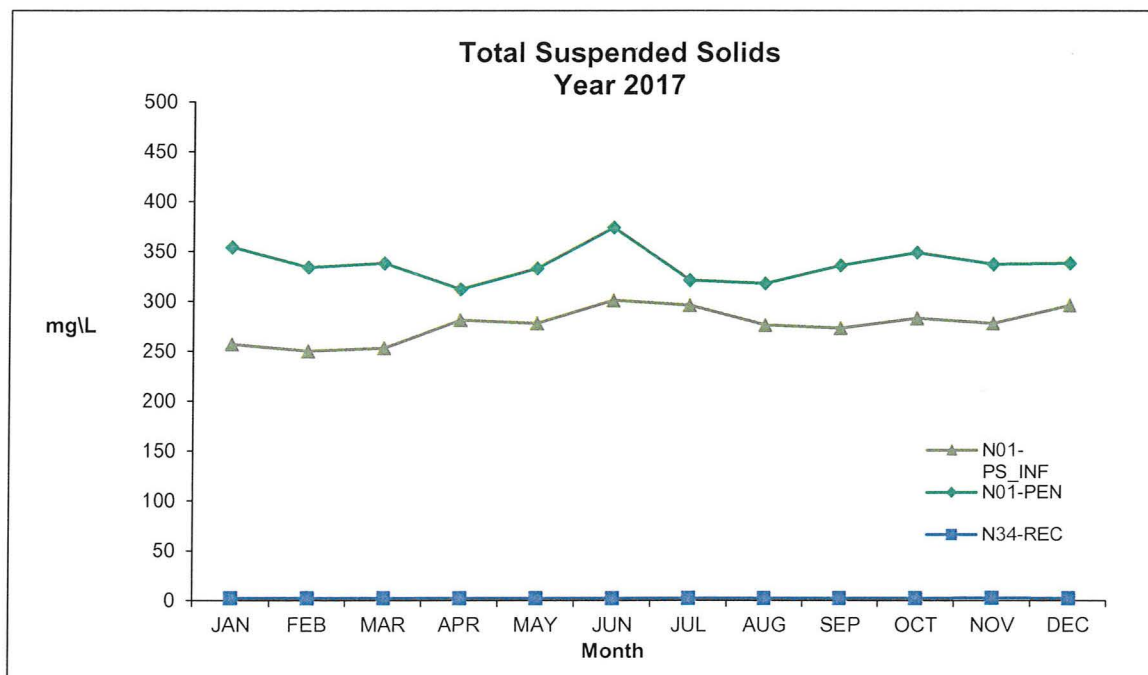
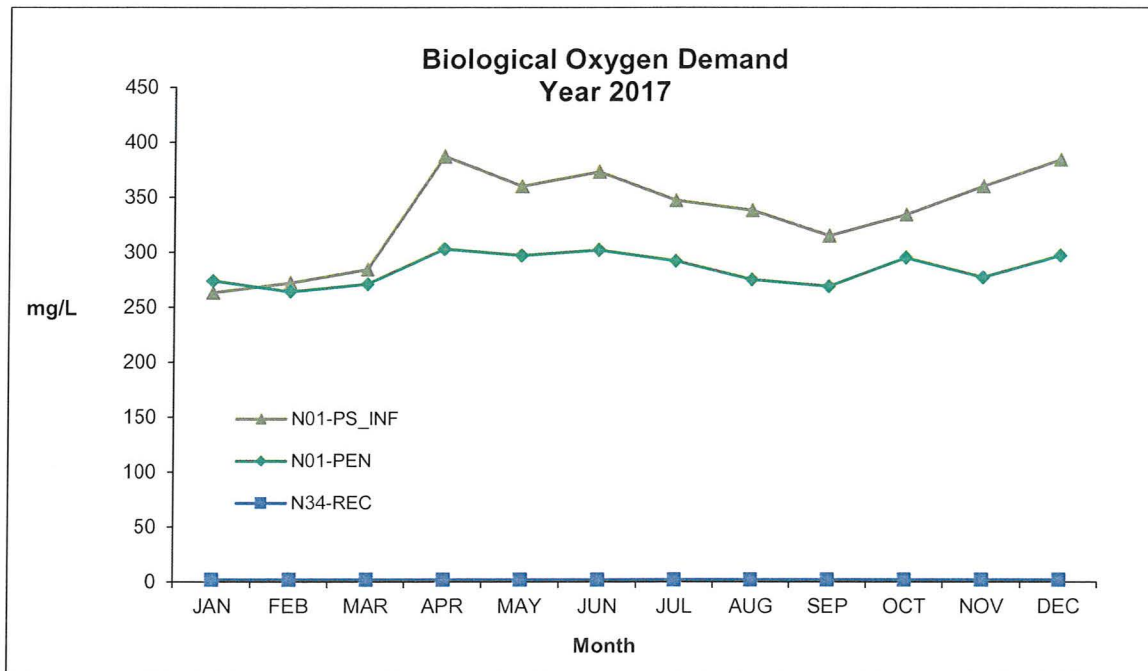
| MDL/Units      | Biochemical<br>Oxygen<br>Demand<br>2 MG/L | Total<br>Dissolved<br>Solids<br>100 MG/L | Total<br>Suspended<br>Solids<br>2.5 MG/L | Volatile<br>Suspended<br>Solids<br>2.5 MG/L | pH<br>Grab<br>(pH) |
|----------------|-------------------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------|--------------------|
| January-2017   | ND                                        | 867                                      | ND                                       | ND                                          | 6.80               |
| February-2017  | <2                                        | 851                                      | ND                                       | ND                                          | 6.68               |
| March-2017     | <2                                        | 878                                      | ND                                       | ND                                          | 6.70               |
| April-2017     | ND                                        | 769                                      | ND                                       | ND                                          | 6.61               |
| May-2017       | <2                                        | 775                                      | ND                                       | ND                                          | 6.68               |
| June-2017      | <2                                        | 872                                      | ND                                       | ND                                          | 6.77               |
| July-2017      | 2                                         | 839                                      | ND                                       | ND                                          | 6.75               |
| August-2017    | ND                                        | 763                                      | ND                                       | ND                                          | 6.77               |
| September-2017 | <2                                        | 789                                      | ND                                       | ND                                          | 6.79               |
| October-2017   | <2                                        | 775                                      | ND                                       | ND                                          | 6.78               |
| November-2017  | ND                                        | 769                                      | ND                                       | ND                                          | 6.75               |
| December-2017  | ND                                        | 718                                      | ND                                       | ND                                          | 6.79               |
| Average:       | 0                                         | 805                                      | ND                                       | ND                                          | 6.74               |
| Maximum:       | 2                                         | 878                                      | ND                                       | ND                                          | 6.8                |
| Minimum:       | 0                                         | 718                                      | ND                                       | ND                                          | 6.61               |

All samples are 24-hour composite, except for pH

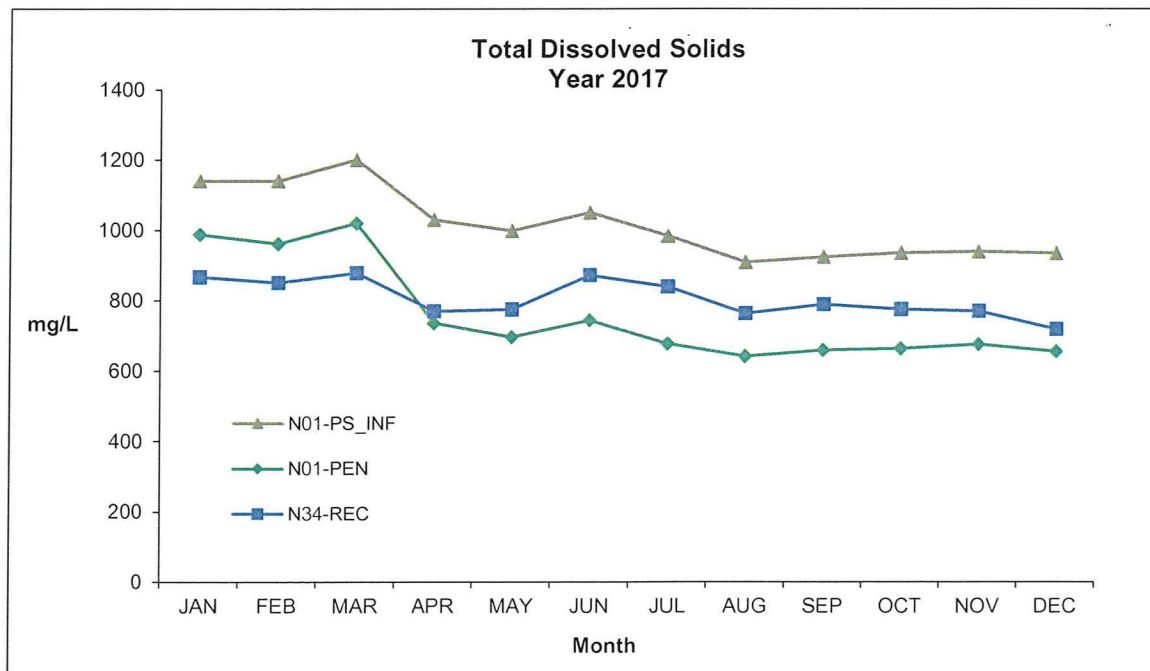
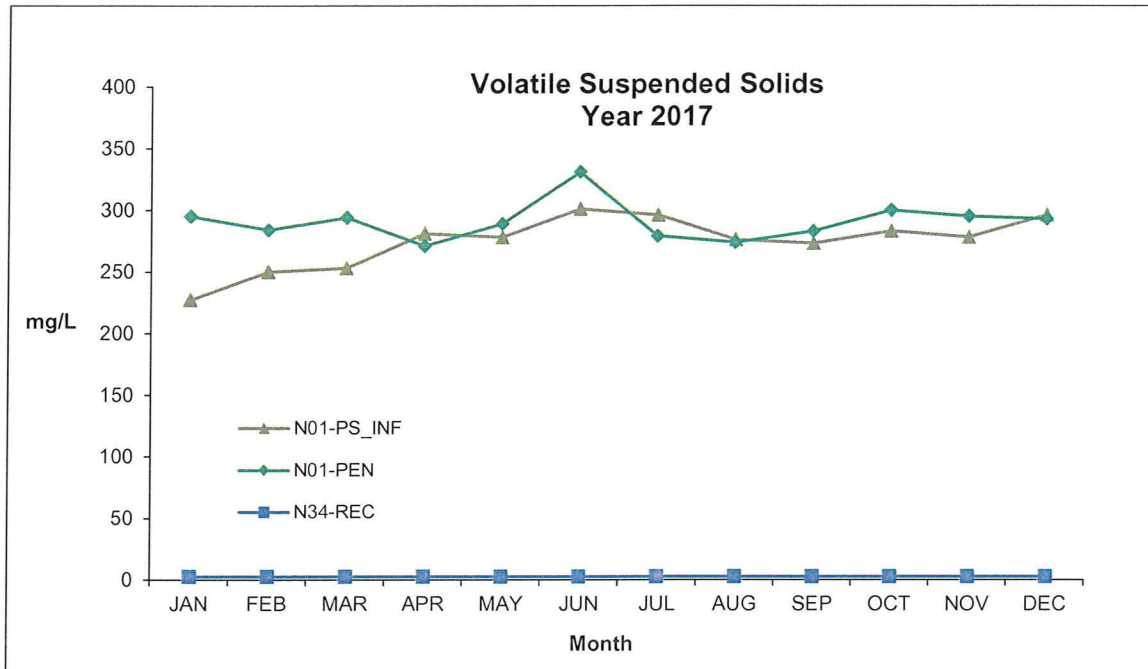
ND= Not Detected

MDLs listed are the maximum MDL for the past 12 months

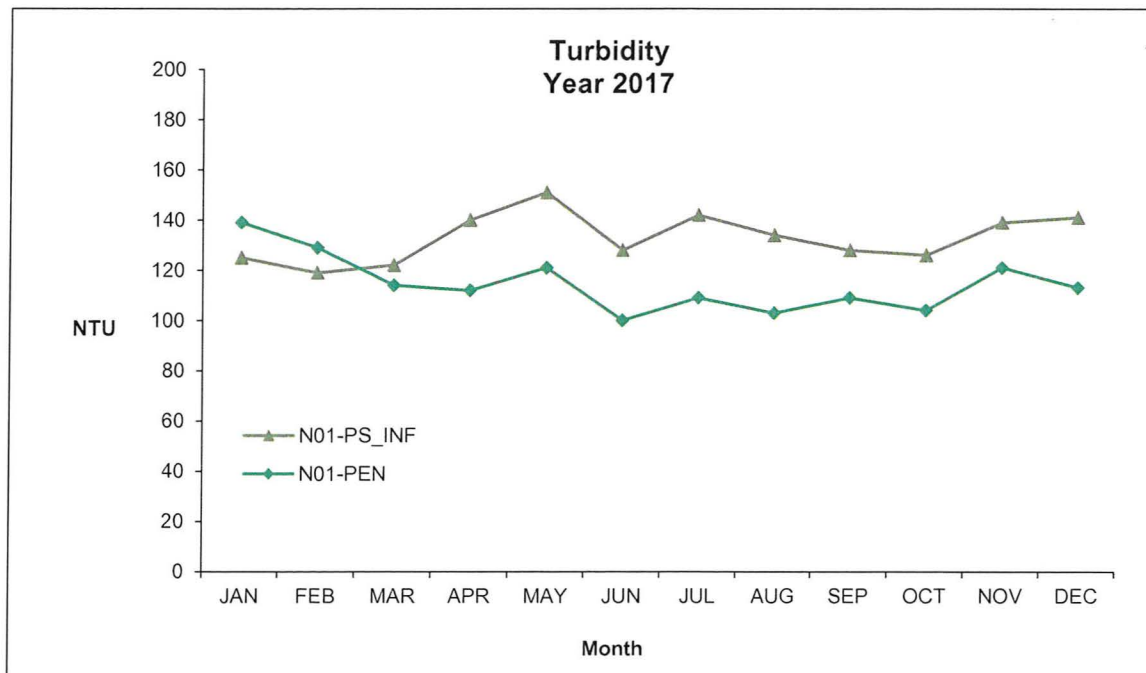
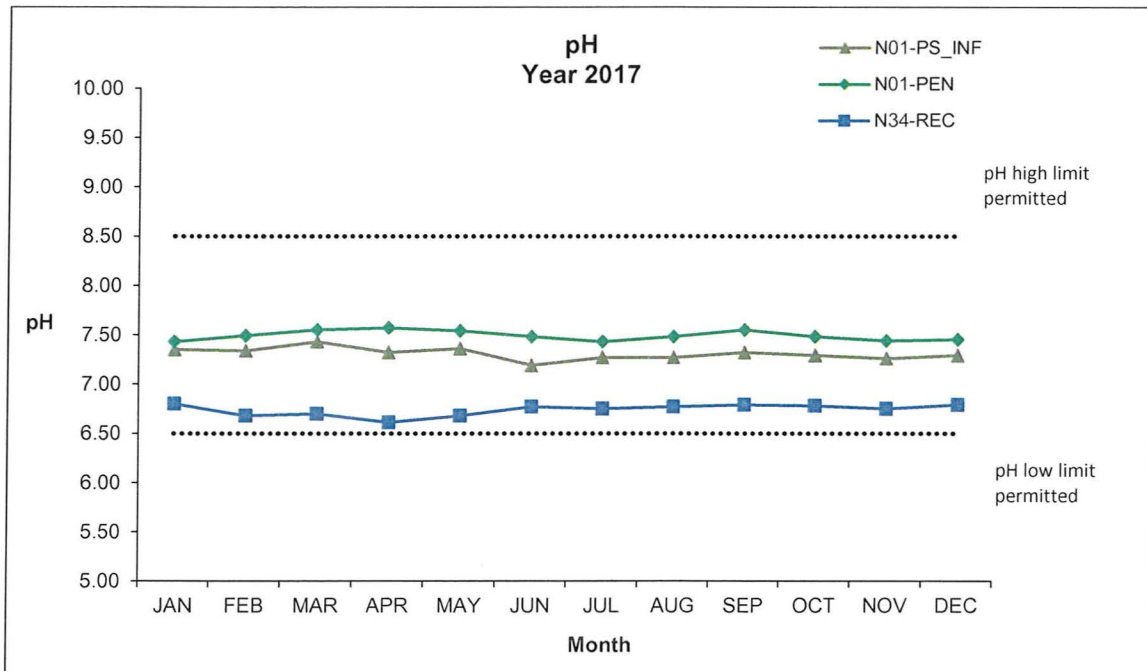
**NORTH CITY WATER RECLAMATION PLANT  
ANNUAL MONITORING REPORT  
2017 Daily Parameters**



**NORTH CITY WATER RECLAMATION PLANT  
ANNUAL MONITORING REPORT  
2017 Daily Parameters**



# **NORTH CITY WATER RECLAMATION PLANT** **ANNUAL MONITORING REPORT** **2017 Daily Parameters**



\* Turbidity for N34-REC is taken from an in-plant meter and thus does not appear in this turbidity graph.



NORTH CITY WATER RECLAMATION PLANT  
(N34-REC) Reclaim Water - Monthly/Annual Averages

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Aluminum | Antimony | Arsenic | Barium | Beryllium | Boron |
|-----------------|----------|----------|---------|--------|-----------|-------|
| MDL:            | 23.8     | 2.44     | 1.84    | 0.7    | 0.12      | 1.4   |
| Units:          | µg/L     | µg/L     | µg/L    | µg/L   | µg/L      | µg/L  |
| Limit:          | 1000     | 6        | 50      | 1000   | 4         | 750   |
| January-2017    | ND       | ND       | <0.4    | 27.0   | ND        | 291   |
| February-2017   | 46       | ND       | 0.9     | 34.2   | ND        | 291   |
| March-2017      | ND       | ND       | <0.4    | 26.6   | ND        | 258   |
| April-2017      | ND       | ND       | 0.5     | 15.8   | <0.050    | 307   |
| May-2017        | ND       | ND       | <0.4    | 10.6   | ND        | 311   |
| June-2017       | 68       | ND       | 0.4     | 11.5   | <0.050    | 322   |
| July-2017       | <24      | <2.4     | 0.4     | 11.8   | <0.050    | 309   |
| August-2017     | <24      | <2.4     | ND      | 12.7   | <0.120    | 334   |
| September-2017  | 82       | 0.4      | ND      | 11.8   | ND        | 342   |
| October-2017    | 151      | 0.4      | ND      | 12.3   | ND        | 322   |
| November-2017   | 80       | 0.3      | ND      | 10.3   | ND        | 338   |
| December-2017   | <6       | 0.4      | ND      | 9.00   | ND        | 295   |
| Annual Average: | 36       | 0.1      | 0.2     | 16.1   | 0         | 310   |

| Analyte:        | Cadmium | Chromium | Cobalt | Copper | Iron | Lead |
|-----------------|---------|----------|--------|--------|------|------|
| MDL:            | 0.26    | 0.54     | 0.24   | 2.16   | 17.1 | 1.68 |
| Units:          | µg/L    | µg/L     | µg/L   | µg/L   | µg/L | µg/L |
| Limit:          | 5       |          |        |        | 300  |      |
| January-2017    | ND      | 0.9      | 0.46   | 12.5   | 74   | ND   |
| February-2017   | ND      | 0.7      | 0.81   | 10.0   | 61   | ND   |
| March-2017      | ND      | <0.5     | 0.51   | <2.16  | 62   | ND   |
| April-2017      | ND      | <0.5     | 0.68   | 3.26   | 77   | ND   |
| May-2017        | ND      | 1.6      | 0.47   | 2.53   | 81   | ND   |
| June-2017       | ND      | 0.7      | 0.67   | 5.24   | 73   | <1.7 |
| July-2017       | ND      | <0.5     | 0.55   | <2.16  | 70   | <1.7 |
| August-2017     | ND      | 0.7      | 0.50   | 3.21   | 67   | ND   |
| September-2017  | ND      | 1.2      | 0.22   | 3.03   | 88   | 2.0  |
| October-2017    | ND      | 0.8      | 0.27   | 2.30   | 77   | 0.5  |
| November-2017   | ND      | 0.3      | 0.23   | 1.64   | 64   | ND   |
| December-2017   | ND      | 0.4      | 0.27   | 2.30   | 68   | ND   |
| Annual Average: | ND      | 0.6      | 0.47   | 3.83   | 72   | 0.2  |

| Analyte:        | Manganese | Mercury | Molybdenum | Nickel | Selenium | Silver |
|-----------------|-----------|---------|------------|--------|----------|--------|
| MDL:            | 0.78      | 0.002   | 0.32       | 0.53   | 0.662    | 0.73   |
| Units:          | µg/L      | µg/L    | µg/L       | µg/L   | µg/L     | µg/L   |
| Limit:          | 100       | 2       |            | 100    | 50       |        |
| January-2017    | 72.2      | 0.002   | 5.37       | 3.98   | 0.81     | ND     |
| February-2017   | 77.7      | ND      | 5.88       | 3.32   | 1.00     | ND     |
| March-2017      | 57.8      | ND      | 8.14       | 3.57   | 0.75     | 5.8    |
| April-2017      | 80.8      | ND      | 3.76       | 3.89   | 0.64     | <0.7   |
| May-2017        | 96.5      | 0.003   | 4.61       | 5.84   | 0.51     | ND     |
| June-2017       | 75.6      | 0.004   | 4.33       | 4.33   | 0.45     | 0.8    |
| July-2017       | 99.9      | ND      | 4.85       | 4.57   | 0.38     | <0.7   |
| August-2017     | 122       | ND      | 6.59       | 4.44   | 1.07     | ND     |
| September-2017  | 88.3      | ND      | 3.94       | 3.32   | ND       | ND     |
| October-2017    | 99.5      | 0.002   | 3.63       | 3.46   | 0.72     | ND     |
| November-2017   | 93.2      | ND      | 3.37       | 3.68   | 0.85     | ND     |
| December-2017   | 94.5      | ND      | 2.76       | 3.63   | <0.66    | ND     |
| Annual Average: | 88.2      | 0.001   | 4.77       | 4.00   | 0.60     | 0.6    |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required

NORTH CITY WATER RECLAMATION PLANT  
(N34-REC) Reclaim Water - Monthly/Annual Averages

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Thallium | Vanadium | Zinc | Calcium | Lithium | Magnesium |
|-----------------|----------|----------|------|---------|---------|-----------|
| MDL:            | 3.12     | 2.77     | 4.19 | 0.134   | 0.01    | 0.132     |
| Units:          | µg/L     | µg/L     | µg/L | mg/L    | mg/L    | mg/L      |
| Limit:          | 2        |          |      |         |         |           |
| January-2017    | ND       | ND       | 23.8 | 62.0    | 0.029   | 27.5      |
| February-2017   | ND       | ND       | 22.2 | 68.2    | 0.033   | 31.2      |
| March-2017      | ND       | <0.45    | 20.9 | 59.8    | 0.026   | 31.1      |
| April-2017      | ND       | 0.78     | 24.5 | 53.4    | 0.024   | 26.9      |
| May-2017        | ND       | <0.45    | 21.6 | 52.9    | 0.021   | 25.4      |
| June-2017       | ND       | <0.45    | 24.2 | 51.2    | 0.024   | 25.8      |
| July-2017       | ND       | 0.49     | 30.0 | 50.2    | 0.021   | 23.8      |
| August-2017     | ND       | ND       | 25.5 | 50.5    | 0.020   | 23.7      |
| September-2017  | ND       | <2.77    | 27.3 | 50.8    | 0.019   | 23.3      |
| October-2017    | ND       | <2.77    | 28.2 | 51.4    | 0.020   | 23.3      |
| November-2017   | ND       | ND       | 21.3 | 51.8    | 0.022   | 24.5      |
| December-2017   | ND       | ND       | 17.8 | 47.7    | 0.020   | 22.6      |
| Annual Average: | ND       | 0.11     | 23.9 | 54.2    | 0.023   | 25.8      |

| Analyte:        | Potassium | Sodium | Calcium Hardness | Magnesium Hardness | Total Hardness | Total Alkalinity |
|-----------------|-----------|--------|------------------|--------------------|----------------|------------------|
| MDL:            | 0.84      | 1.4    | 0.335            | 0.544              | 0.878          | 20               |
| Units:          | mg/L      | mg/L   | mg/L             | mg/L               | mg/L           | mg/L             |
| Limit:          |           |        |                  |                    |                |                  |
| January-2017    | 12.0      | 150    | 155              | 113                | 268            | 82               |
| February-2017   | 12.6      | 169    | 171              | 129                | 299            | 91               |
| March-2017      | 15.0      | 158    | 149              | 128                | 277            | 98               |
| April-2017      | 14.5      | 158    | 134              | 111                | 244            | 76               |
| May-2017        | 17.1      | 166    | 132              | 105                | 237            | 74               |
| June-2017       | 17.3      | 173    | 128              | 107                | 234            | 86               |
| July-2017       | 18.1      | 166    | 125              | 98.0               | 223            | 77               |
| August-2017     | 18.0      | 172    | 127              | 98.0               | 225            | 79               |
| September-2017  | 17.3      | 158    | 127              | 96.0               | 222            | 79               |
| October-2017    | 17.1      | 161    | 128              | 96.0               | 224            | 80               |
| November-2017   | 19.4      | 165    | 129              | 101                | 230            | 82               |
| December-2017   | 16.9      | 151    | 119              | 93.0               | 212            | 81               |
| Annual Average: | 16.3      | 162    | 135              | 106                | 241            | 82               |

| Analyte:        | Chloride | Fluoride | Nitrate | Nitrate as N | Sulfate | Ortho Phosphate |
|-----------------|----------|----------|---------|--------------|---------|-----------------|
| MDL:            | 7        | 0.05     | 0.04    |              | 9       | 0.2             |
| Units:          | mg/L     | mg/L     | mg/L    | mg/L         | mg/L    | mg/L            |
| Limit:          | 300      | 1        |         |              | 300     |                 |
| January-2017    | 218      | 0.41     | 52.5    | 11.9         | 206     | 1.7             |
| February-2017   | 236      | 0.47     | 48.8    | 11.0         | 232     | 1.8             |
| March-2017      | 156      | 0.40     | 48.5    | 11.0         | 170     | 1.6             |
| April-2017      | 219      | 0.38     | 52.4    | 11.8         | 144     | 4.6             |
| May-2017        | 243      | 0.46     | 58.2    | 13.1         | 125     | 3.2             |
| June-2017       | 248      | 0.50     | 56.7    | 12.8         | 139     | 5.1             |
| July-2017       | 249      | 0.49     | 59.0    | 13.3         | 114     | 5.8             |
| August-2017     | 244      | 0.48     | 65.0    | 14.7         | 117     | 3.4             |
| September-2017  | 232      | 0.52     | 58.9    | 13.3         | 114     | 5.0             |
| October-2017    | 242      | 0.52     | 57.8    | 13.1         | 112     | 2.8             |
| November-2017   | 228      | 0.50     | 57.0    | 12.9         | 113     | 4.1             |
| December-2017   | 213      | 0.46     | 55.0    | 12.4         | 108     | 4.0             |
| Annual Average: | 227      | 0.47     | 55.8    | 12.6         | 141     | 3.6             |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required

NORTH CITY WATER RECLAMATION PLANT  
(N34-REC) Reclaim Water - Monthly/Annual Averages

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Total Organic Carbon | Percent Sodium | Adjusted Sodium Ratio | Total Cyanides | Total Dissolved Solids | Total Nitrogen |
|-----------------|----------------------|----------------|-----------------------|----------------|------------------------|----------------|
| MDL:            | 0.3                  |                |                       | 0.005          | 100                    | 0.78           |
| Units:          | mg/L                 | PERCENT        | Ratio                 | mg/L           | mg/L                   | mg/L           |
| Limit:          |                      | 60             |                       | 0.2            | 1200                   |                |
| January-2017    | 5.9                  | 54             | 3.8                   | ND             | 867                    | 13.2           |
| February-2017   | 5.6                  | 54             | 4.1                   | ND             | 851                    | 13.9           |
| March-2017      | 5.8                  | 54             | 4.0                   | ND             | 878                    | 12.4           |
| April-2017      | 9.4                  | 57             | 4.1                   | ND             | 769                    | 15.4           |
| May-2017        | 6.8                  | 58             | 4.4                   | ND             | 775                    | 15.8           |
| June-2017       | 6.7                  | 60             | 4.5                   | 0.003          | 872                    | 14.8           |
| July-2017       | 7.6                  | 59             | 4.4                   | NR             | 839                    | 15.6           |
| August-2017     | 6.4                  | 60             | 4.5                   | <0.005         | 763                    | 15.6           |
| September-2017  | 6.7                  | 58             | 4.1                   | NR             | 789                    | 14.0           |
| October-2017    | 6.4                  | 59             | 4.3                   | NR             | 775                    | 14.1           |
| November-2017   | 6.2                  | 59             | 4.4                   | <0.005         | 769                    | 13.2           |
| December-2017   | 5.8                  | 58             | 4.0                   | <0.005         | 718                    | 12.8           |
| Annual Average: | 6.6                  | 58             | 4.2                   | 0              | 805                    | 14.2           |

| Analyte:        | MBAS (Surfactants) |
|-----------------|--------------------|
| MDL:            | 0.03               |
| Units:          | mg/L               |
| Limit:          | 0.5                |
| January-2017    | 0.07               |
| February-2017   | ND                 |
| March-2017      | ND                 |
| April-2017      | 0.03               |
| May-2017        | ND                 |
| June-2017       | ND                 |
| July-2017       | ND                 |
| August-2017     | ND                 |
| September-2017  | 0.04               |
| October-2017    | ND                 |
| November-2017   | ND                 |
| December-2017   | ND                 |
| Annual Average: | 0.01               |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required

**NORTH CITY WATER RECLAMATION PLANT**  
(N01-PS-INF) Pump Station 64 Influent - Daily Parameters

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Aluminum | Antimony | Arsenic | Barium | Beryllium | Boron |
|-----------------|----------|----------|---------|--------|-----------|-------|
| MDL:            | 23.8     | 2.44     | 1.84    | 0.7    | 0.12      | 1.4   |
| Units:          | µg/L     | µg/L     | µg/L    | µg/L   | µg/L      | µg/L  |
| January-2017    | 415      | ND       | 1.00    | 116    | ND        | 301   |
| February-2017   | 891      | <2.4     | 2.30    | 110    | ND        | 290   |
| March-2017      | 814      | ND       | 1.50    | 118    | ND        | 296   |
| April-2017      | 722      | ND       | 1.20    | 82.0   | ND        | 315   |
| May-2017        | 415      | ND       | 1.00    | 80.0   | ND        | 299   |
| June-2017       | 339      | 2.9      | 1.20    | 67.0   | ND        | 323   |
| July-2017       | 509      | <2.4     | 0.80    | 65.0   | ND        | 321   |
| August-2017     | 498      | <2.4     | ND      | 64.0   | ND        | 322   |
| September-2017  | 467      | 0.6      | ND      | 64.0   | ND        | 356   |
| October-2017    | 538      | 0.6      | ND      | 67.0   | ND        | 316   |
| November-2017   | 342      | 0.5      | ND      | 58.0   | ND        | 338   |
| December-2017   | 464      | 0.7      | ND      | 67.0   | ND        | 293   |
| Annual Average: | 535      | 0.4      | 0.80    | 80.0   | ND        | 314   |

| Analyte:        | Cadmium | Chromium | Cobalt | Copper | Iron | Lead |
|-----------------|---------|----------|--------|--------|------|------|
| MDL:            | 0.26    | 0.54     | 0.24   | 2.16   | 17.1 | 1.68 |
| Units:          | µg/L    | µg/L     | µg/L   | µg/L   | µg/L | µg/L |
| January-2017    | ND      | 5.20     | 1.21   | 135    | 5740 | ND   |
| February-2017   | <0.26   | 7.40     | 1.98   | 112    | 8590 | 2.7  |
| March-2017      | <0.26   | 4.10     | 1.50   | 127    | 4830 | 2.3  |
| April-2017      | <0.26   | 5.50     | 1.42   | 147    | 6390 | <1.7 |
| May-2017        | <0.26   | 5.20     | 1.22   | 154    | 7950 | 3.6  |
| June-2017       | <0.26   | 6.10     | 1.25   | 129    | 7230 | 1.9  |
| July-2017       | ND      | 5.40     | 1.29   | 173    | 7510 | 1.7  |
| August-2017     | <0.26   | 5.50     | 1.07   | 141    | 6850 | 2.4  |
| September-2017  | <0.08   | 6.20     | 0.71   | 139    | 7330 | 1.7  |
| October-2017    | <0.08   | 6.30     | 0.77   | 128    | 6850 | 1.5  |
| November-2017   | <0.08   | 4.20     | 0.49   | 93.0   | 5180 | 0.9  |
| December-2017   | 0.10    | 6.00     | 0.83   | 108    | 7610 | 1.1  |
| Annual Average: | 0.01    | 5.60     | 1.18   | 132    | 6838 | 1.7  |

| Analyte:        | Lithium | Manganese | Mercury | Molybdenum | Nickel | Selenium |
|-----------------|---------|-----------|---------|------------|--------|----------|
| MDL:            | 0.01    | 0.78      | 0.005   | 0.32       | 0.53   | 0.662    |
| Units:          | mg/L    | µg/L      | µg/L    | µg/L       | µg/L   | µg/L     |
| January-2017    | 0.051   | 147       | 0.080   | 8.01       | 5.80   | 0.97     |
| February-2017   | 0.053   | 162       | 0.070   | 9.69       | 7.30   | 2.18     |
| March-2017      | 0.048   | 143       | 0.050   | 9.80       | 5.80   | 1.43     |
| April-2017      | 0.045   | 188       | 0.090   | 6.75       | 6.20   | 1.15     |
| May-2017        | 0.043   | 197       | 0.110   | 7.72       | 6.00   | 1.42     |
| June-2017       | 0.038   | 168       | 0.070   | 6.89       | 7.30   | 1.47     |
| July-2017       | 0.032   | 185       | 0.070   | 7.78       | 6.20   | 1.25     |
| August-2017     | NR      | 181       | 0.130   | 8.00       | 7.20   | 2.42     |
| September-2017  | 0.031   | 185       | 0.080   | 8.85       | 5.80   | 0.70     |
| October-2017    | 0.030   | 173       | 0.060   | 5.86       | 5.70   | 1.98     |
| November-2017   | 0.031   | 171       | 0.040   | 5.45       | 5.30   | 1.60     |
| December-2017   | NR      | 177       | 0.120   | 5.37       | 6.50   | 1.44     |
| Annual Average: | 0.040   | 173       | 0.080   | 7.51       | 6.30   | 1.50     |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required



**NORTH CITY WATER RECLAMATION PLANT**  
(N01-PS-INF) Pump Station 64 Influent - Daily Parameters

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Silver | Thallium | Vanadium | Zinc | Calcium | Magnesium |
|-----------------|--------|----------|----------|------|---------|-----------|
| MDL:            | 0.73   | 3.12     | 2.77     | 4.19 | 0.134   | 0.132     |
| Units:          | µg/L   | µg/L     | µg/L     | µg/L | mg/L    | mg/L      |
| January-2017    | ND     | ND       | 0.63     | 161  | 95.1    | 40.5      |
| February-2017   | 3.9    | ND       | 2.72     | 150  | 86.1    | 40.2      |
| March-2017      | ND     | ND       | 2.94     | 150  | 84.0    | 39.4      |
| April-2017      | 0.9    | ND       | 2.15     | 190  | 73.7    | 37.2      |
| May-2017        | <0.7   | ND       | 0.84     | 179  | 80.9    | 37.2      |
| June-2017       | ND     | ND       | 0.47     | 165  | 71.6    | 36.8      |
| July-2017       | 1.0    | ND       | 1.14     | 203  | 66.9    | 30.7      |
| August-2017     | <0.7   | ND       | 2.15     | 174  | 57.2    | 25.6      |
| September-2017  | 0.4    | ND       | <2.77    | 161  | 62.8    | 29.9      |
| October-2017    | 0.7    | ND       | <2.77    | 146  | 65.5    | 30.2      |
| November-2017   | 0.2    | ND       | <2.77    | 111  | 64.9    | 31.6      |
| December-2017   | 0.7    | ND       | ND       | 131  | NR      | NR        |
| Annual Average: | 0.7    | ND       | 1.09     | 160  | 73.5    | 34.5      |

| Analyte:        | Potassium | Sodium | Chloride | Fluoride | Sulfate | Total<br>Dissolved<br>Solids |
|-----------------|-----------|--------|----------|----------|---------|------------------------------|
| MDL:            | 0.84      | 1      | 7        | 0.05     | 9       | 100                          |
| Units:          | mg/L      | mg/L   | mg/L     | mg/L     | mg/L    | mg/L                         |
| January-2017    | 19.3      | 210    | NR       | NR       | NR      | 1140                         |
| February-2017   | 17.0      | 188    | NR       | NR       | NR      | 1140                         |
| March-2017      | 15.3      | 205    | 262      | 0.60     | 265     | 1200                         |
| April-2017      | 22.2      | 215    | NR       | NR       | NR      | 1030                         |
| May-2017        | 24.1      | 233    | 333      | 0.44     | 142     | 998                          |
| June-2017       | 24.5      | 225    | 335      | 0.54     | 164     | 1050                         |
| July-2017       | 23.1      | 202    | NR       | NR       | NR      | 983                          |
| August-2017     | 19.5      | 168    | NR       | NR       | NR      | 908                          |
| September-2017  | 22.4      | 198    | 293      | 0.49     | 119     | 923                          |
| October-2017    | 21.1      | 190    | NR       | NR       | NR      | 935                          |
| November-2017   | 23.5      | 196    | 287      | 0.45     | 133     | 938                          |
| December-2017   | NR        | NR     | NR       | NR       | NR      | 934                          |
| Annual Average: | 21.1      | 203    | 302      | 0.50     | 165     | 1015                         |

| Analyte:        | Cyanides |
|-----------------|----------|
| MDL:            | 0.005    |
| Units:          | mg/L     |
| January-2017    | 0.002    |
| February-2017   | ND       |
| March-2017      | ND       |
| April-2017      | 0.003    |
| May-2017        | 0.003    |
| June-2017       | 0.003    |
| July-2017       | NR       |
| August-2017     | <0.005   |
| September-2017  | NR       |
| October-2017    | NR       |
| November-2017   | <0.005   |
| December-2017   | <0.005   |
| Annual Average: | 0.001    |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required



**NORTH CITY WATER RECLAMATION PLANT**  
(N01-PEN) Penasquitos Influent - Annual Averages

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Aluminum | Antimony | Arsenic | Barium | Beryllium | Boron |
|-----------------|----------|----------|---------|--------|-----------|-------|
| MDL:            | 23.8     | 2.44     | 1.84    | 0.7    | 0.12      | 1.4   |
| Units:          | µg/L     | µg/L     | µg/L    | µg/L   | µg/L      | µg/L  |
| January-2017    | 936      | ND       | 1.01    | 122    | ND        | 325   |
| February-2017   | 898      | ND       | 1.54    | 109    | ND        | 316   |
| March-2017      | 1300     | 3.1      | 0.76    | 97.0   | ND        | 273   |
| April-2017      | 1740     | ND       | 1.38    | 70.0   | ND        | 270   |
| May-2017        | 1970     | <2.4     | 0.74    | 83.0   | ND        | 430   |
| June-2017       | 2950     | <2.4     | 3.01    | 67.0   | ND        | 285   |
| July-2017       | 3330     | <2.4     | 1.89    | 61.0   | ND        | 294   |
| August-2017     | 3540     | <2.4     | 3.60    | 58.0   | ND        | 317   |
| September-2017  | 3050     | 0.9      | 4.37    | 60.0   | ND        | 334   |
| October-2017    | 2880     | 0.9      | 3.21    | 62.0   | ND        | 289   |
| November-2017   | 2510     | 0.9      | 2.76    | 50.0   | ND        | 293   |
| December-2017   | 1590     | 1.0      | <1.84   | 59.0   | ND        | 279   |
| Annual Average: | 2225     | 0.6      | 2.02    | 75.0   | ND        | 309   |

| Analyte:        | Cadmium | Chromium | Cobalt | Copper | Iron  | Lead |
|-----------------|---------|----------|--------|--------|-------|------|
| MDL:            | 0.26    | 0.54     | 0.24   | 2.16   | 17.1  | 1.68 |
| Units:          | µg/L    | µg/L     | µg/L   | µg/L   | µg/L  | µg/L |
| January-2017    | ND      | 12.5     | 1.53   | 110    | 18100 | 2.1  |
| February-2017   | <0.26   | 7.10     | 1.43   | 124    | 9000  | 2.7  |
| March-2017      | ND      | 7.10     | 2.58   | 78.0   | 10600 | <1.7 |
| April-2017      | ND      | 7.30     | 1.10   | 99.0   | 10600 | <1.7 |
| May-2017        | <0.26   | 12.0     | 1.80   | 144    | 14900 | 3.5  |
| June-2017       | <0.26   | 8.50     | 1.19   | 116    | 10500 | 3.8  |
| July-2017       | ND      | 8.80     | 1.51   | 129    | 10000 | 7.8  |
| August-2017     | <0.26   | 8.60     | 2.54   | 104    | 10100 | <1.7 |
| September-2017  | ND      | 7.20     | 0.74   | 87.0   | 11700 | 1.1  |
| October-2017    | ND      | 10.4     | 3.89   | 85.0   | 11100 | 1.8  |
| November-2017   | <0.08   | 6.80     | 0.49   | 69.0   | 8580  | 1.0  |
| December-2017   | 0.09    | 7.20     | 0.83   | 79.0   | 10500 | 1.2  |
| Annual Average: | 0.01    | 8.60     | 1.72   | 102    | 11307 | 2.1  |

| Analyte:        | Lithium | Manganese | Mercury | Molybdenum | Nickel | Selenium |
|-----------------|---------|-----------|---------|------------|--------|----------|
| MDL:            | 0.01    | 0.78      | 0.005   | 0.32       | 0.53   | 0.662    |
| Units:          | mg/L    | µg/L      | µg/L    | µg/L       | µg/L   | µg/L     |
| January-2017    | 0.054   | 167       | 0.071   | 10.9       | 11.8   | 1.89     |
| February-2017   | 0.062   | 157       | 0.086   | 9.58       | 8.40   | 0.34     |
| March-2017      | 0.043   | 115       | 0.083   | 15.2       | 9.10   | 1.50     |
| April-2017      | 0.031   | 142       | 0.051   | 7.53       | 11.0   | 1.22     |
| May-2017        | 0.029   | 192       | 0.195   | 13.6       | 21.1   | 1.03     |
| June-2017       | 0.030   | 170       | 0.165   | 9.04       | 12.1   | 1.20     |
| July-2017       | 0.024   | 183       | 0.111   | 9.68       | 10.3   | 1.31     |
| August-2017     | NR      | 205       | 0.156   | 10.4       | 10.4   | 1.56     |
| September-2017  | 0.022   | 173       | 0.125   | 9.05       | 9.80   | ND       |
| October-2017    | 0.023   | 152       | 0.215   | 7.45       | 9.30   | 1.78     |
| November-2017   | 0.022   | 166       | 0.081   | 12.2       | 10.9   | 1.44     |
| December-2017   | NR      | 124       | 0.087   | 5.98       | 8.00   | 1.33     |
| Annual Average: | 0.034   | 162       | 0.119   | 10.1       | 11.0   | 1.22     |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required

### NORTH CITY WATER RECLAMATION PLANT

(N01-PEN) Penasquitos Influent - Annual Averages

From: 01-Jan-2017 — 31-Dec-2017

| Analyte:        | Silver | Thallium | Vanadium | Zinc | Calcium | Magnesium |
|-----------------|--------|----------|----------|------|---------|-----------|
| MDL:            | 0.73   | 3.12     | 2.77     | 4.19 | 0.134   | 0.132     |
| Units:          | µg/L   | µg/L     | µg/L     | µg/L | mg/L    | mg/L      |
| January-2017    | ND     | ND       | 2.77     | 178  | 86.4    | 36.3      |
| February-2017   | 2.46   | ND       | 2.26     | 154  | 92.8    | 42.2      |
| March-2017      | ND     | ND       | 5.97     | 125  | 86.9    | 43.1      |
| April-2017      | <0.73  | ND       | 4.34     | 156  | 62.0    | 31.6      |
| May-2017        | 1.39   | ND       | 6.09     | 228  | NR      | NR        |
| June-2017       | 1.38   | ND       | 4.12     | 178  | 57.8    | 27.9      |
| July-2017       | 1.74   | ND       | 3.42     | 200  | 53.3    | 23.5      |
| August-2017     | 0.96   | ND       | 4.13     | 164  | 51.5    | 20.6      |
| September-2017  | 3.85   | ND       | 5.56     | 135  | 50.1    | 21.4      |
| October-2017    | 0.78   | ND       | 4.74     | 137  | 49.4    | 21.2      |
| November-2017   | 0.68   | ND       | 3.85     | 117  | 47.5    | 21.9      |
| December-2017   | 11.2   | ND       | 3.85     | 126  | NR      | NR        |
| Annual Average: | 2.04   | ND       | 4.26     | 158  | 63.8    | 29.0      |

| Analyte:        | Potassium | Sodium | Chloride | Fluoride | Sulfate | Total<br>Dissolved<br>Solids |
|-----------------|-----------|--------|----------|----------|---------|------------------------------|
| MDL:            | 0.84      | 1      | 7        | 0.05     | 9       | 100                          |
| Units:          | mg/L      | mg/L   | mg/L     | mg/L     | mg/L    | mg/L                         |
| January-2017    | 18.2      | 173    | NR       | NR       | NR      | 988                          |
| February-2017   | 19.6      | 221    | NR       | NR       | NR      | 962                          |
| March-2017      | 11.5      | 190    | 222      | 0.61     | 284     | 1020                         |
| April-2017      | 16.5      | 148    | NR       | NR       | NR      | 736                          |
| May-2017        | 24.9      | 1530   | 178      | 0.41     | 109     | 696                          |
| June-2017       | 19.5      | 154    | 203      | 0.48     | 141     | 744                          |
| July-2017       | 19.1      | 141    | NR       | NR       | NR      | 677                          |
| August-2017     | 17.8      | 127    | NR       | NR       | NR      | 641                          |
| September-2017  | 18.3      | 140    | 192      | 0.41     | 89.0    | 659                          |
| October-2017    | 19.1      | 134    | NR       | NR       | NR      | 663                          |
| November-2017   | 21.1      | 140    | 185      | 0.39     | 93.0    | 675                          |
| December-2017   | NR        | NR     | NR       | NR       | NR      | 655                          |
| Annual Average: | 18.7      | 282    | 196      | 0.46     | 143     | 760                          |

| Analyte:        | Cyanides |
|-----------------|----------|
| MDL:            | 0.005    |
| Units:          | mg/L     |
| January-2017    | ND       |
| February-2017   | 0.002    |
| March-2017      | ND       |
| April-2017      | 0.002    |
| May-2017        | 0.002    |
| June-2017       | 0.003    |
| July-2017       | NR       |
| August-2017     | NR       |
| September-2017  | NR       |
| October-2017    | NR       |
| November-2017   | <0.005   |
| December-2017   | <0.005   |
| Annual Average: | 0.001    |

MDLs listed are the maximum for the past 12 months

ND= Not Detected

NR= Not Required

NORTH CITY WATER RECLAMATION PLANT  
North City Reclaimed Water  
Annual Monitoring of Perchlorate, Asbestos and 2,3,7,8-TCDD

**Report:** Annual Perchlorate Monitoring  
**Source:** N34-REC WATER - Reclaimed Water

| <u>Sample Date</u> | <u>Sample ID</u> | <u>Analysis</u> | <u>Analyte</u> | <u>MDL</u> | <u>Units</u> | <u>Results</u> |
|--------------------|------------------|-----------------|----------------|------------|--------------|----------------|
| 04-OCT-2017        | W1197307         | EPA314          | Perchlorate    | 4          | Ug/L         | 16.5           |

**Report:** Annual Asbestos Monitoring  
**Source:** N34-REC WATER - Reclaimed Water

| <u>Sample Date</u> | <u>Sample ID</u> | <u>Analysis</u> | <u>Analyte</u> | <u>MDL</u> | <u>Units</u> | <u>Results</u> |
|--------------------|------------------|-----------------|----------------|------------|--------------|----------------|
| 07-JUN-2017        | W1176072         | EPA100.2        | Asbestos       | 0.2        | MFL          | ND             |
| 04-OCT-2017        | W1197306         | EPA100.2        | Asbestos       | 0.2        | MFL          | ND             |

**Report:** Annual Tetra Chlorinated Dioxin Monitoring  
**Source:** N34-REC WATER - Reclaimed Water

| <u>Sample Date</u> | <u>Sample ID</u> | <u>Analysis</u> | <u>Analyte</u> | <u>Units</u> | <u>Results</u> |
|--------------------|------------------|-----------------|----------------|--------------|----------------|
| 06-JUN-2017        | W1176071         | EPA1613         | 2,3,7,8-TCDD   | pg/L         | ND             |
| 04-OCT-2017        | W1197305         | EPA1613         | 2,3,7,8-TCDD   | pg/L         | ND             |

NORTH CITY WATER RECLAMATION PLANT  
2017 Annual Monitoring

Quarterly Sludge Project  
Physical Parameters

| Source:                         |       |          | N01-PS_INF  | N01-PS_INF  | N01-PS_INF  | N01-PS_INF  |
|---------------------------------|-------|----------|-------------|-------------|-------------|-------------|
| Date:                           | MDL   | Units    | 01-MAR-2017 | 06-JUN-2017 | 06-SEP-2017 | 07-NOV-2017 |
| =====                           | ===== | =====    | =====       | =====       | =====       | =====       |
| Ammonia-N                       | .3    | MG/L     | 20.9        | 33.0        | 34.3        | 37.9        |
| BOD (Biochemical Oxygen Demand) | 2     | MG/L     | 199         | 282         | 326         | 283         |
| Hexane Extractable Material     | 1.01  | MG/L     | 26.3        | 44.3        | 34.5        | 55.6        |
| Chemical Oxygen Demand          | 18    | MG/L     | 487         | 831         | 568         | 1170        |
| Conductivity                    | 10    | UMHOS/CM | 1800        | 1990        | 1740        | 1820        |
| MBAS (Surfactants)              | .03   | MG/L     | 4.36        | 4.17        | 5.32        | 4.80        |
| pH (grab)                       |       | PH       | NR          | 7.1         | 6.7         | 6.5         |
| Total Alkalinity (bicarbonate)  | 20    | MG/L     | 250         | 282         | 266         | 282         |
| Total Dissolved Solids          | 100   | MG/L     | 1070        | 1100        | 908         | 984         |
| Total Suspended Solids          | 2.5   | MG/L     | 200         | 244         | 300         | 204         |
| Volatile Suspended Solids       | 2.5   | MG/L     | 176         | 220         | 276         | 188         |
| Total Kjeldahl Nitrogen         | 1.2   | MG/L     | NR          | 65.3        | 59.7        | 57.2        |
| Turbidity                       | .13   | NTU      | 105         | 138         | 128         | 131         |
| Sulfides-Total                  | .35   | MG/L     | ND          | 3.0         | 3.4         | 1.8         |
| Total Nitrogen                  | .78   | MG/L     | NR          | NR          | NR          | NR          |
| Total Organic Carbon            | .3    | MG/L     | NR          | NR          | NR          | NR          |
| =====                           | ===== | =====    | =====       | =====       | =====       | =====       |

| Source:                         |       |          | N01-PEN     | N01-PEN     | N01-PEN     | N01-PEN     |
|---------------------------------|-------|----------|-------------|-------------|-------------|-------------|
| Date:                           | MDL   | Units    | 01-MAR-2017 | 06-JUN-2017 | 06-SEP-2017 | 07-NOV-2017 |
| =====                           | ===== | =====    | =====       | =====       | =====       | =====       |
| Ammonia-N                       | .3    | MG/L     | 18.2        | 31.3        | 34.1        | 38.5        |
| BOD (Biochemical Oxygen Demand) | 2     | MG/L     | 91.0        | 157         | 217         | 187         |
| Hexane Extractable Material     | 1.01  | MG/L     | 8.4         | 62.8        | 51.5        | 61.4        |
| Chemical Oxygen Demand          | 18    | MG/L     | 378         | 587         | 611         | 376         |
| Conductivity                    | 10    | UMHOS/CM | 1740        | 1520        | 1380        | 1430        |
| MBAS (Surfactants)              | .03   | MG/L     | 2.34        | 4.06        | 3.56        | 4.49        |
| pH (grab)                       |       | PH       | NR          | 6.6         | 7.1         | 7.0         |
| Total Alkalinity (bicarbonate)  | 20    | MG/L     | 278         | 288         | 272         | 293         |
| Total Dissolved Solids          | 100   | MG/L     | 1040        | 788         | 636         | 708         |
| Total Suspended Solids          | 2.5   | MG/L     | 100         | 412         | 336         | 192         |
| Volatile Suspended Solids       | 2.5   | MG/L     | 76.0        | 348         | 288         | 180         |
| Total Kjeldahl Nitrogen         | 1.2   | MG/L     | NR          | 53.7        | 57.3        | 53.7        |
| Turbidity                       | .13   | NTU      | 62.1        | 56.3        | 83.5        | 94.4        |
| Sulfides-Total                  | .35   | MG/L     | ND          | 2.8         | 5.9         | 1.7         |
| Total Nitrogen                  | .78   | MG/L     | NR          | NR          | NR          | NR          |
| Total Organic Carbon            | .3    | MG/L     | NR          | NR          | NR          | NR          |
| =====                           | ===== | =====    | =====       | =====       | =====       | =====       |

NR= Not Required  
ND= Not Detected



NORTH CITY WATER RECLAMATION PLANT  
2017 Annual Monitoring

Quarterly Sludge Project  
Physical Parameters

| Source:                         |      |          | N10-EFF     | N10-EFF     | N10-EFF     | N10-EFF     |
|---------------------------------|------|----------|-------------|-------------|-------------|-------------|
| Date:                           | MDL  | Units    | 01-MAR-2017 | 06-JUN-2017 | 06-SEP-2017 | 07-NOV-2017 |
| Ammonia-N                       | .3   | MG/L     | 20.1        | 33.1        | 36.1        | 39.0        |
| BOD (Biochemical Oxygen Demand) | 2    | MG/L     | 66.0        | 149         | 152         | 168         |
| Hexane Extractable Material     | 1.01 | MG/L     | 10.8        | 22.6        | 27.7        | 36.8        |
| Chemical Oxygen Demand          | 18   | MG/L     | 192         | 376         | 393         | 412         |
| Conductivity                    | 10   | UMHOS/CM | 1720        | 1810        | 1610        | 1690        |
| MBAS (Surfactants)              | .03  | MG/L     | 2.95        | 4.88        | 4.57        | 4.84        |
| pH (grab)                       |      | PH       | NR          | 7.0         | 7.2         | 7.0         |
| Total Alkalinity (bicarbonate)  | 20   | MG/L     | 268         | 279         | 270         | 282         |
| Total Dissolved Solids          | 100  | MG/L     | 1080        | NR          | 820         | 872         |
| Total Suspended Solids          | 2.5  | MG/L     | 49.0        | 76.0        | 76.0        | 80.0        |
| Volatile Suspended Solids       | 2.5  | MG/L     | 36.0        | 58.0        | 66.0        | 68.0        |
| Total Kjeldahl Nitrogen         | 1.2  | MG/L     | NR          | 51.2        | 50.1        | 52.3        |
| Turbidity                       | .13  | NTU      | 44.9        | 66.0        | 69.5        | 76.7        |
| Sulfides-Total                  | .35  | MG/L     | ND          | 0.5         | 1.4         | 0.5         |
| Total Nitrogen                  | .78  | MG/L     | NR          | NR          | NR          | NR          |
| Total Organic Carbon            | .3   | MG/L     | NR          | NR          | NR          | NR          |

| Source:                         |      |          | N34-REC WATER | N34-REC WATER | N34-REC WATER | N34-REC WATER |
|---------------------------------|------|----------|---------------|---------------|---------------|---------------|
| Date:                           | MDL  | Units    | 01-MAR-2017   | 06-JUN-2017   | 06-SEP-2017   | 07-NOV-2017   |
| Ammonia-N                       | .3   | MG/L     | ND            | ND            | ND            | ND            |
| BOD (Biochemical Oxygen Demand) | 2    | MG/L     | ND            | ND            | ND            | ND            |
| Hexane Extractable Material     | 1.01 | MG/L     | 3.0           | 2.7           | <1.0          | 4.0           |
| Chemical Oxygen Demand          | 18   | MG/L     | 106           | 33            | ND            | 40            |
| Conductivity                    | 10   | UMHOS/CM | 1160          | 1360          | 1270          | 1280          |
| MBAS (Surfactants)              | .03  | MG/L     | ND            | ND            | 0.04          | ND            |
| pH (grab)                       |      | PH       | 6.6           | 6.9           | 6.9           | 6.9           |
| Total Alkalinity (bicarbonate)  | 20   | MG/L     | 103           | 87            | 78            | 80            |
| Total Dissolved Solids          | 100  | MG/L     | 756           | 900           | 730           | 792           |
| 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         | 1.2  | MG/L     | NR            | ND            | ND            | ND            |
| Turbidity                       | .13  | NTU      | 0.52          | 0.96          | 1.11          | NR            |
| Sulfides-Total                  | .35  | MG/L     | ND            | <0.4          | ND            | ND            |
| Total Nitrogen                  | .78  | MG/L     | 12.4          | 14.8          | 14.0          | 13.2          |
| Total Organic Carbon            | .3   | MG/L     | 5.8           | 6.7           | 6.7           | 6.2           |

NR= Not Required  
ND= Not Detected



NORTH CITY WATER RECLAMATION PLANT  
ANNUAL MONITORING REPORT  
Radioactivity

From: 01-JAN-2017 To: 31-DEC-2017

| Source        | Sample Date | Sample  | Units | Gross Alpha Radiation | Gross Beta Radiation |
|---------------|-------------|---------|-------|-----------------------|----------------------|
| =====         | =====       | =====   | ===== | =====                 | =====                |
| N10-EFF       | 01-MAR-2017 | P925944 | pCi/L | 4.5±1.4               | 5.5±0.9              |
| N10-EFF       | 06-JUN-2017 | P946452 | pCi/L | 2.7±1.7               | 9.5±1.3              |
| N10-EFF       | 06-SEP-2017 | P967283 | pCi/L | 0.2±0.6               | 7.4±1.1              |
| N10-EFF       | 07-NOV-2017 | P981644 | pCi/L | 4.2±1.6               | 9.7±1.6              |
| N01-PS_INF    | 01-MAR-2017 | P925934 | pCi/L | 6.9±2.7               | 10.0±1.8             |
| N01-PS_INF    | 06-JUN-2017 | P946442 | pCi/L | 3.7±2.3               | 17.8±2.0             |
| N01-PS_INF    | 06-SEP-2017 | P967273 | pCi/L | 4.4±1.3               | 9.4±1.3              |
| N01-PS_INF    | 07-NOV-2017 | P981634 | pCi/L | 2.1±1.8               | 12.1±1.8             |
| N01-PEN       | 01-MAR-2017 | P925939 | pCi/L | 12.3±3.1              | 7.1±1.6              |
| N01-PEN       | 06-JUN-2017 | P946447 | pCi/L | 4.5±1.8               | 11.1±1.6             |
| N01-PEN       | 06-SEP-2017 | P967278 | pCi/L | 1.6±1.3               | 13.1±2.2             |
| N01-PEN       | 07-NOV-2017 | P981639 | pCi/L | 3.3±1.3               | 8.3±1.5              |
| N34-REC WATER | 01-MAR-2017 | P925949 | pCi/L | 4.6±1.6               | 6.6±1.4              |
| N34-REC WATER | 06-JUN-2017 | P946457 | pCi/L | 1.5±0.4               | 0.4±0.3              |
| N34-REC WATER | 06-SEP-2017 | P967288 | pCi/L | 3.1±1.7               | 9.2±1.7              |
| N34-REC WATER | 07-NOV-2017 | P981649 | pCi/L | 1.1±1.5               | 10.2±1.7             |

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  
2017 Annual Monitoring  
Organo - Tins

| Source:      |            | N01-PS_INF  | N01-PS_INF  | N01-PS_INF  | N01-PS_INF  |
|--------------|------------|-------------|-------------|-------------|-------------|
| Date:        |            | 01-MAR-2017 | 06-JUN-2017 | 06-SEP-2017 | 07-NOV-2017 |
| Sample ID:   | MDL Units  | P925934     | P946442     | P967273     | P981634     |
| =====        | =====      | =====       | =====       | =====       | =====       |
| Tributyltin  | .0083 UG/L | ND          | ND          | ND          | ND          |
| Dibutyltin   | .0102 UG/L | ND          | ND          | ND          | ND          |
| Monobutyltin | .013 UG/L  | ND          | ND          | ND          | NA          |

| Source:      |            | N01-PEN     | N01-PEN     | N01-PEN     | N01-PEN     |
|--------------|------------|-------------|-------------|-------------|-------------|
| Date:        |            | 01-MAR-2017 | 06-JUN-2017 | 06-SEP-2017 | 07-NOV-2017 |
| Sample ID:   | MDL Units  | P925939     | P946447     | P967278     | P981639     |
| =====        | =====      | =====       | =====       | =====       | =====       |
| Tributyltin  | .0083 UG/L | ND          | ND          | ND          | ND          |
| Dibutyltin   | .0102 UG/L | DNQ0.033    | ND          | ND          | ND          |
| Monobutyltin | .013 UG/L  | ND          | ND          | ND          | NA          |

| Source:      |            | N10-EFF     | N10-EFF     | N10-EFF     | N10-EFF     |
|--------------|------------|-------------|-------------|-------------|-------------|
| Date:        |            | 01-MAR-2017 | 06-JUN-2017 | 06-SEP-2017 | 07-NOV-2017 |
| Sample ID:   | MDL Units  | P925944     | P946452     | P967283     | P981644     |
| =====        | =====      | =====       | =====       | =====       | =====       |
| Tributyltin  | .0083 UG/L | ND          | ND          | ND          | ND          |
| Dibutyltin   | .0102 UG/L | ND          | ND          | ND          | ND          |
| Monobutyltin | .013 UG/L  | ND          | ND          | ND          | NA          |

| Source:      |            | N34-REC WATER | N34-REC WATER | N34-REC WATER | N34-REC WATER |
|--------------|------------|---------------|---------------|---------------|---------------|
| Date:        |            | 01-MAR-2017   | 06-JUN-2017   | 06-SEP-2017   | 07-NOV-2017   |
| Sample ID:   | MDL Units  | P925949       | P946457       | P967288       | P981649       |
| =====        | =====      | =====         | =====         | =====         | =====         |
| Tributyltin  | .0083 UG/L | ND            | ND            | ND            | ND            |
| Dibutyltin   | .0102 UG/L | DNQ0.011      | ND            | ND            | ND            |
| Monobutyltin | .013 UG/L  | ND            | ND            | ND            | ND            |

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.  
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Phenolic Compounds

| Analyte                            | MDL  | Units | N01-PS_INF<br>01-MAR-2017<br>P925934 | N01-PS_INF<br>06-JUN-2017<br>P946442 | N01-PS_INF<br>06-SEP-2017<br>P967273 | N01-PS_INF<br>07-NOV-2017<br>P981634 |
|------------------------------------|------|-------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                                    |      |       |                                      |                                      |                                      |                                      |
| 2,4,6-Trichlorophenol              | 1.65 | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 2,4-Dichlorophenol                 | 1.01 | UG/L  | ND                                   | DNQ1.52                              | 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                                   | *                                    |
| 2-Nitrophenol                      | 1.55 | UG/L  | ND                                   | DNQ2.02                              | 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  | 6.97                                 | 7.28                                 | 28.30                                | 21.00                                |
| =====                              |      |       |                                      |                                      |                                      |                                      |
| Total Non-Chlorinated Phenols      | 2.16 | UG/L  | 6.97                                 | 9.30                                 | 28.30                                | 21.00                                |
| Total Chlorinated Phenols          | 1.67 | UG/L  | 0.00                                 | 1.52                                 | 0.00                                 | 0.00                                 |
| =====                              |      |       |                                      |                                      |                                      |                                      |
| Phenols                            | 2.16 | UG/L  | 6.97                                 | 10.82                                | 28.30                                | 21.00                                |
| 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  | 36.40                                | 63.70                                | 61.60                                | 50.10                                |
| 2,4,5-Trichlorophenol              | 1.66 | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| =====                              |      |       |                                      |                                      |                                      |                                      |

| Analyte                            | MDL  | Units | N01-PEN<br>01-MAR-2017<br>P925939 | N01-PEN<br>06-JUN-2017<br>P946447 | N01-PEN<br>06-SEP-2017<br>P967278 | N01-PEN<br>07-NOV-2017<br>P981639 |
|------------------------------------|------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                    |      |       |                                   |                                   |                                   |                                   |
| 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                                | *                                 |
| 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                                | 14.10                             | 4.44                              | 8.03                              |
| =====                              |      |       |                                   |                                   |                                   |                                   |
| Total Non-Chlorinated Phenols      | 2.16 | UG/L  | 0.00                              | 14.10                             | 4.44                              | 8.03                              |
| Total Chlorinated Phenols          | 1.67 | UG/L  | 0.00                              | 0.00                              | 0.00                              | 0.00                              |
| =====                              |      |       |                                   |                                   |                                   |                                   |
| Phenols                            | 2.16 | UG/L  | 0.00                              | 14.10                             | 4.44                              | 8.03                              |
| 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                                | 21.50                             | 5.24                              | 12.10                             |
| 2,4,5-Trichlorophenol              | 1.66 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                              |      |       |                                   |                                   |                                   |                                   |

ND= Not Detected

NA= Not Analyzed

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.

\*= The spike and internal check results for that analyte is below lab control limits; therefore not result for this analyte is reportable

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Phenolic Compounds

| Analyte                            | MDL  | Units | N10-EFF<br>01-MAR-2017<br>P925944 | N10-EFF<br>06-JUN-2017<br>P946452 | N10-EFF<br>06-SEP-2017<br>P967283 | N10-EFF<br>07-NOV-2017<br>P981644 |
|------------------------------------|------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                    |      |       |                                   |                                   |                                   |                                   |
| 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                                | DNQ1.33                           | 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                                | 9.56                              | 16.10                             | 15.30                             |
| =====                              |      |       |                                   |                                   |                                   |                                   |
| Total Non-Chlorinated Phenols      | 2.16 | UG/L  | 0.00                              | 9.56                              | 16.10                             | 15.30                             |
| Total Chlorinated Phenols          | 1.67 | UG/L  | 0.00                              | 1.33                              | 0.00                              | 0.00                              |
| =====                              |      |       |                                   |                                   |                                   |                                   |
| Phenols                            | 2.16 | UG/L  | 0.00                              | 10.89                             | 16.10                             | 15.30                             |
| 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  | 10.80                             | 39.00                             | 4.52                              | 23.20                             |
| 2,4,5-Trichlorophenol              | 1.66 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                              |      |       |                                   |                                   |                                   |                                   |

| Analyte                            | MDL  | Units | N34-REC WATER<br>06-SEP-2017<br>P967288 | N34-REC WATER<br>07-NOV-2017<br>P981649 |
|------------------------------------|------|-------|-----------------------------------------|-----------------------------------------|
|                                    |      |       |                                         |                                         |
| 2,4,6-Trichlorophenol              | 1.65 | UG/L  | ND                                      | ND                                      |
| 2,4-Dichlorophenol                 | 1.01 | UG/L  | ND                                      | ND                                      |
| 2,4-Dimethylphenol                 | 2.01 | UG/L  | ND                                      | ND                                      |
| 2,4-Dinitrophenol                  | 2.16 | UG/L  | ND                                      | ND                                      |
| 2-Methyl-4,6-dinitrophenol         | 1.52 | UG/L  | ND                                      | ND                                      |
| 2-Chlorophenol                     | 1.32 | UG/L  | ND                                      | *                                       |
| 2-Nitrophenol                      | 1.55 | UG/L  | ND                                      | ND                                      |
| 4-Chloro-3-methylphenol            | 1.67 | UG/L  | ND                                      | ND                                      |
| 4-Nitrophenol                      | 1.14 | UG/L  | ND                                      | ND                                      |
| Pentachlorophenol                  | 1.12 | UG/L  | ND                                      | ND                                      |
| Phenol                             | 1.76 | UG/L  | ND                                      | ND                                      |
| =====                              |      |       |                                         |                                         |
| Total Non-Chlorinated Phenols      | 2.16 | UG/L  | 0.00                                    | 0.00                                    |
| Total Chlorinated Phenols          | 1.67 | UG/L  | 0.00                                    | 0.00                                    |
| =====                              |      |       |                                         |                                         |
| Phenols                            | 2.16 | UG/L  | 0.00                                    | 0.00                                    |
| 2-Methylphenol                     | 2.15 | UG/L  | ND                                      | ND                                      |
| 3-Methylphenol(4-MP is unresolved) |      | UG/L  | NA                                      | NA                                      |
| 4-Methylphenol(3-MP is unresolved) | 2.11 | UG/L  | ND                                      | ND                                      |
| 2,4,5-Trichlorophenol              | 1.66 | UG/L  | ND                                      | ND                                      |
| =====                              |      |       |                                         |                                         |

ND= Not Detected  
NA= Not Analyzed

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.

\*= The spike and internal check results for that analyte is below lab control limits; therefore not result for this analyte is reportable



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Chlorinated Pesticides

| Analyte                    | MDL  | Units | N01-PS_INF<br>01-MAR-2017<br>P925934 | N01-PS_INF<br>06-JUN-2017<br>P946442 | N01-PS_INF<br>06-SEP-2017<br>P967273 | N01-PS_INF<br>07-NOV-2017<br>P981634 |
|----------------------------|------|-------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                            |      |       | =====                                | =====                                | =====                                | =====                                |
| Aldrin                     | 9.4  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| BHC, Alpha isomer          | 15   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| BHC, Beta isomer           | 50   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| BHC, Delta isomer          | 38   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| BHC, Gamma isomer          | 20   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Alpha (cis) Chlordane      | 45   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Gamma (trans) Chlordane    | 45   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Alpha Chlordene            |      | NG/L  | NA                                   | NA                                   | NA                                   | NA                                   |
| Gamma Chlordene            |      | NG/L  | NA                                   | NA                                   | NA                                   | NA                                   |
| Cis Nonachlor              | .38  | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| Dieldrin                   | 11   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Endosulfan Sulfate         | 460  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Alpha Endosulfan           | 11   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Beta Endosulfan            | 17   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Endrin                     | 10   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Endrin aldehyde            | 73   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Heptachlor                 | 10   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Heptachlor epoxide         | 10   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Methoxychlor               | 460  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Mirex                      | 1.61 | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| o,p-DDD                    | 1.03 | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| o,p-DDE                    | 1.76 | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| o,p-DDT                    | .67  | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| Oxychlordane               | 1.21 | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| PCB 1016                   | 250  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1221                   | 2000 | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1232                   | 810  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1242                   | 700  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1248                   | 730  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1254                   | 920  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1260                   | 500  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| PCB 1262                   | 500  | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| p,p-DDD                    | 16   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| p,p-DDE                    | 10   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| p,p-DDT                    | 16   | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Toxaphene                  | 830  | NG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Trans Nonachlor            | .58  | NG/L  | ND                                   | ND                                   | NA                                   | ND                                   |
| =====                      |      |       |                                      |                                      |                                      |                                      |
| Heptachlors                | 10   | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| Endosulfans                | 460  | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| Polychlorinated biphenyls  | 2000 | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| Chlordane + related cmpds. | 45   | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| DDT and derivatives        | 16   | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| Hexachlorocyclohexanes     | 50   | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| Aldrin + Dieldrin          | 11   | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| =====                      |      |       |                                      |                                      |                                      |                                      |
| Chlorinated Hydrocarbons   | 2000 | NG/L  | 0                                    | 0                                    | 0                                    | 0                                    |
| =====                      |      |       |                                      |                                      |                                      |                                      |

NA= Not Analyzed  
ND= Not Detected



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Chlorinated Pesticides

| Analyte                    | MDL  | Units | N01-PEN<br>01-MAR-2017<br>P925939 | N01-PEN<br>06-JUN-2017<br>P946447 | N01-PEN<br>06-SEP-2017<br>P967278 | N01-PEN<br>07-NOV-2017<br>P981639 |
|----------------------------|------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                            |      |       | =====                             | =====                             | =====                             | =====                             |
| Aldrin                     | 9.4  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Alpha isomer          | 15   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Beta isomer           | 50   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Delta isomer          | 38   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Gamma isomer          | 20   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Alpha (cis) Chlordane      | 45   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Gamma (trans) Chlordane    | 45   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Alpha Chlordene            |      | NG/L  | NA                                | NA                                | NA                                | NA                                |
| Gamma Chlordene            |      | NG/L  | NA                                | NA                                | NA                                | NA                                |
| Cis Nonachlor              | .38  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| Dieldrin                   | 11   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Endosulfan Sulfate         | 460  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Alpha Endosulfan           | 11   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Beta Endosulfan            | 17   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Endrin                     | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Endrin aldehyde            | 73   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Heptachlor                 | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Heptachlor epoxide         | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Methoxychlor               | 460  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Mirex                      | 1.61 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| o,p-DDD                    | 1.03 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| o,p-DDE                    | 1.76 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| o,p-DDT                    | .67  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| Oxychlordane               | 1.21 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| PCB 1016                   | 250  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1221                   | 2000 | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1232                   | 810  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1242                   | 700  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1248                   | 730  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1254                   | 920  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1260                   | 500  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1262                   | 500  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| p,p-DDD                    | 16   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| p,p-DDE                    | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| p,p-DDT                    | 16   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Toxaphene                  | 830  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Trans Nonachlor            | .58  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| =====                      |      |       |                                   |                                   |                                   |                                   |
| Heptachlors                | 10   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Endosulfans                | 460  | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Polychlorinated biphenyls  | 2000 | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Chlordane + related cmpds. | 45   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| DDT and derivatives        | 16   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Hexachlorocyclohexanes     | 50   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Aldrin + Dieldrin          | 11   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| =====                      |      |       |                                   |                                   |                                   |                                   |
| Chlorinated Hydrocarbons   | 2000 | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| =====                      |      |       |                                   |                                   |                                   |                                   |

NA= Not Analyzed

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Chlorinated Pesticides

| Analyte                    | MDL  | Units | N10-EFF<br>01-MAR-2017<br>P925944 | N10-EFF<br>06-JUN-2017<br>P946452 | N10-EFF<br>06-SEP-2017<br>P967283 | N10-EFF<br>07-NOV-2017<br>P981644 |
|----------------------------|------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                            |      |       | =====                             | =====                             | =====                             | =====                             |
| Aldrin                     | 9.4  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Alpha isomer          | 15   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Beta isomer           | 50   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Delta isomer          | 38   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| BHC, Gamma isomer          | 20   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Alpha (cis) Chlordane      | 45   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Gamma (trans) Chlordane    | 45   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Alpha Chlordene            |      | NG/L  | NA                                | NA                                | NA                                | NA                                |
| Gamma Chlordene            |      | NG/L  | NA                                | NA                                | NA                                | NA                                |
| Cis Nonachlor              | .38  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| Dieldrin                   | 11   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Endosulfan Sulfate         | 460  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Alpha Endosulfan           | 11   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Beta Endosulfan            | 17   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Endrin                     | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Endrin aldehyde            | 73   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Heptachlor                 | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Heptachlor epoxide         | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Methoxychlor               | 460  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Mirex                      | 1.61 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| o,p-DDD                    | 1.03 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| o,p-DDE                    | 1.76 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| o,p-DDT                    | .67  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| Oxychlordane               | 1.21 | NG/L  | ND                                | ND                                | NA                                | ND                                |
| PCB 1016                   | 250  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1221                   | 2000 | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1232                   | 810  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1242                   | 700  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1248                   | 730  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1254                   | 920  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1260                   | 500  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| PCB 1262                   | 500  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| p,p-DDD                    | 16   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| p,p-DDE                    | 10   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| p,p-DDT                    | 16   | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Toxaphene                  | 830  | NG/L  | ND                                | ND                                | ND                                | ND                                |
| Trans Nonachlor            | .58  | NG/L  | ND                                | ND                                | NA                                | ND                                |
| =====                      |      |       |                                   |                                   |                                   |                                   |
| Heptachlors                | 10   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Endosulfans                | 460  | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Polychlorinated biphenyls  | 2000 | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Chlordane + related cmpds. | 45   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| DDT and derivatives        | 16   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Hexachlorocyclohexanes     | 50   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| Aldrin + Dieldrin          | 11   | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| =====                      |      |       |                                   |                                   |                                   |                                   |
| Chlorinated Hydrocarbons   | 2000 | NG/L  | 0                                 | 0                                 | 0                                 | 0                                 |
| =====                      |      |       |                                   |                                   |                                   |                                   |

NA= Not Analyzed

ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Chlorinated Pesticides

| Analyte                    | MDL   | Units | N34-REC WATER<br>01-MAR-2017<br>P925949 | N34-REC WATER<br>06-JUN-2017<br>P946457 | N34-REC WATER<br>06-SEP-2017<br>P967288 | N34-REC WATER<br>07-NOV-2017<br>P981649 |
|----------------------------|-------|-------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|                            |       |       | =====                                   | =====                                   | =====                                   | =====                                   |
| Aldrin                     | 9.4   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| BHC, Alpha isomer          | 15    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| BHC, Beta isomer           | 50    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| BHC, Delta isomer          | 38    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| BHC, Gamma isomer          | 20    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Alpha (cis) Chlordane      | 45    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Gamma (trans) Chlordane    | 45    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Alpha Chlordene            |       | NG/L  | NA                                      | NA                                      | NA                                      | NA                                      |
| Gamma Chlordene            |       | NG/L  | NA                                      | NA                                      | NA                                      | NA                                      |
| Cis Nonachlor              | .38   | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| Dieldrin                   | 11    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Endosulfan Sulfate         | 460   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Alpha Endosulfan           | 11    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Beta Endosulfan            | 17    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Endrin                     | 10    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Endrin aldehyde            | 73    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Heptachlor                 | 10    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Heptachlor epoxide         | 10    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Methoxychlor               | 460   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Mirex                      | 1.61  | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| o,p-DDD                    | 1.03  | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| o,p-DDE                    | 1.76  | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| o,p-DDT                    | .67   | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| Oxychlordane               | 1.21  | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| PCB 1016                   | 250   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1221                   | 2000  | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1232                   | 810   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1242                   | 700   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1248                   | 730   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1254                   | 920   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1260                   | 500   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| PCB 1262                   | 500   | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| p,p-DDD                    | 16    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| p,p-DDE                    | 10    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| p,p-DDT                    | 16    | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Toxaphene                  | 830   | NG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Trans Nonachlor            | .58   | NG/L  | ND                                      | ND                                      | NA                                      | ND                                      |
| =====                      | ===== | ===== | =====                                   | =====                                   | =====                                   | =====                                   |
| Heptachlors                | 10    | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| Endosulfans                | 460   | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| Polychlorinated biphenyls  | 2000  | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| Chlordane + related cmpds. | 45    | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| DDT and derivatives        | 16    | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| Hexachlorocyclohexanes     | 50    | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| Aldrin + Dieldrin          | 11    | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| =====                      | ===== | ===== | =====                                   | =====                                   | =====                                   | =====                                   |
| Chlorinated Hydrocarbons   | 2000  | NG/L  | 0                                       | 0                                       | 0                                       | 0                                       |
| =====                      | ===== | ===== | =====                                   | =====                                   | =====                                   | =====                                   |

NA= Not Analyzed  
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
ANNUAL MONITORING REPORT  
2017

Organophosphorus Pesticides

| Analyte                           | MDL Units | N01-PS_INF<br>06-JUN-2017<br>P946442 | N01-PS_INF<br>07-NOV-2017<br>P981634 | N01-PEN<br>06-JUN-2017<br>P946447 | N01-PEN<br>07-NOV-2017<br>P981639 |
|-----------------------------------|-----------|--------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|
|                                   |           |                                      |                                      |                                   |                                   |
| Demeton O                         | .01 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Demeton S                         | .04 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Diazinon                          | .02 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Guthion                           | .03 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Malathion                         | .02 UG/L  | ND                                   | ND                                   | 0.120                             | ND                                |
| Parathion                         | .01 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| =====                             |           |                                      |                                      |                                   |                                   |
| Thiophosphorus Pesticides         | .03 UG/L  | 0.000                                | 0.000                                | 0.120                             | 0.000                             |
| Demeton -O, -S                    | .04 UG/L  | 0.000                                | 0.000                                | 0.000                             | 0.000                             |
| =====                             |           |                                      |                                      |                                   |                                   |
| Total Organophosphorus Pesticides | .05 UG/L  | 0.000                                | 0.000                                | 0.120                             | 0.000                             |
| =====                             |           |                                      |                                      |                                   |                                   |
| Dichlorvos                        | .01 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Disulfoton                        | .01 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Stirophos                         | .01 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Coumaphos                         | .05 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| Chlorpyrifos                      | .02 UG/L  | ND                                   | ND                                   | ND                                | ND                                |
| =====                             |           |                                      |                                      |                                   |                                   |

| Analyte                           | MDL Units | N10-EFF<br>06-JUN-2017<br>P946452 | N10-EFF<br>07-NOV-2017<br>P981644 | N34-REC WATER<br>06-JUN-2017<br>P946457 | N34-REC WATER<br>07-NOV-2017<br>P981649 |
|-----------------------------------|-----------|-----------------------------------|-----------------------------------|-----------------------------------------|-----------------------------------------|
|                                   |           |                                   |                                   |                                         |                                         |
| Demeton O                         | .01 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Demeton S                         | .04 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Diazinon                          | .02 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Guthion                           | .03 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Malathion                         | .02 UG/L  | DNQ0.070                          | ND                                | ND                                      | ND                                      |
| Parathion                         | .01 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| =====                             |           |                                   |                                   |                                         |                                         |
| Thiophosphorus Pesticides         | .03 UG/L  | 0.070                             | 0.000                             | 0.000                                   | 0.000                                   |
| Demeton -O, -S                    | .04 UG/L  | 0.000                             | 0.000                             | 0.000                                   | 0.000                                   |
| =====                             |           |                                   |                                   |                                         |                                         |
| Total Organophosphorus Pesticides | .05 UG/L  | 0.070                             | 0.000                             | 0.000                                   | 0.000                                   |
| =====                             |           |                                   |                                   |                                         |                                         |
| Dichlorvos                        | .01 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Disulfoton                        | .01 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Stirophos                         | .01 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Coumaphos                         | .05 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| Chlorpyrifos                      | .02 UG/L  | ND                                | ND                                | ND                                      | ND                                      |
| =====                             |           |                                   |                                   |                                         |                                         |

ND= Not Detected

The results for N34-REC WATER sample from 06-JUN-2017 and 07-NOV-2017 are not reportable due to surrogate recovery outside method acceptance limits.



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT  
Base/Neutral Compounds

| Analyte                        | MDL   | Units | N01-PS_INF<br>01-MAR-2017<br>P925934 | N01-PS_INF<br>06-JUN-2017<br>P946442 | N01-PS_INF<br>06-SEP-2017<br>P967273 | N01-PS_INF<br>07-NOV-2017<br>P981634 |
|--------------------------------|-------|-------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
|                                |       |       | =====                                | =====                                | =====                                | =====                                |
| 1,2,4-Trichlorobenzene         | 1.52  | UG/L  | ND                                   | 1.6                                  | ND                                   | ND                                   |
| 1,2-Diphenylhydrazine          | 1.37  | UG/L  | ND                                   | NR                                   | ND                                   | ND                                   |
| 2,4-Dinitrotoluene             | 1.36  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 2,6-Dinitrotoluene             | 1.53  | UG/L  | ND                                   | NR                                   | ND                                   | ND                                   |
| Dibenzo(a,h)anthracene         | 1.01  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Diethyl phthalate              | 3.05  | UG/L  | ND                                   | ND                                   | 4.1                                  | 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                                   | NR                                   | 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                                   | NR                                   | ND                                   | ND                                   |
| Hexachlorocyclopentadiene      | 1.25  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Acenaphthene                   | 1.8   | UG/L  | ND                                   | NR                                   | ND                                   | ND                                   |
| Acenaphthylene                 | 1.77  | UG/L  | ND                                   | NR                                   | 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  | 12.4                                 | ND                                   | ND                                   | ND                                   |
| Benzidine                      | 1.52  | UG/L  | NR                                   | ND                                   | NR                                   | 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                                   | NR                                   | ND                                   | ND                                   |
| Bis-(2-chloroethyl) ether      | 1.38  | UG/L  | ND                                   | NR                                   | 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                                   | NR                                   | 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                                   | NR                                   | ND                                   | ND                                   |
| Nitrobenzene                   | 1.6   | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| N-nitrosodimethylamine         | 1.27  | UG/L  | ND                                   | NR                                   | 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  | 12.4                                 | 1.6                                  | 4.1                                  | 0.0                                  |
| =====                          | ===== | ===== | =====                                | =====                                | =====                                | =====                                |
| 1-Methylnaphthalene            | 2.18  | UG/L  | ND                                   | NR                                   | ND                                   | ND                                   |
| 2-Methylnaphthalene            | 2.14  | UG/L  | ND                                   | NR                                   | ND                                   | ND                                   |
| 2,6-Dimethylnaphthalene        | 2.16  | UG/L  | ND                                   | NR                                   | 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                                   | NR                                   | ND                                   | ND                                   |
| Pyridine                       | 3.33  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| =====                          | ===== | ===== | =====                                | =====                                | =====                                | =====                                |

NR= Not Required  
ND= Not Detected



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT  
Base/Neutral Compounds

| Analyte                        | MDL   | Units | N01-PEN<br>01-MAR-2017<br>P925939 | N01-PEN<br>06-JUN-2017<br>P946447 | N01-PEN<br>06-SEP-2017<br>P967278 | N01-PEN<br>07-NOV-2017<br>P981639 |
|--------------------------------|-------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                |       |       | =====                             | =====                             | =====                             | =====                             |
| 1,2,4-Trichlorobenzene         | 1.52  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Diphenylhydrazine          | 1.37  | UG/L  | ND                                | NR                                | ND                                | ND                                |
| 2,4-Dinitrotoluene             | 1.36  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 2,6-Dinitrotoluene             | 1.53  | UG/L  | ND                                | NR                                | ND                                | ND                                |
| Dibenzo(a,h)anthracene         | 1.01  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Diethyl phthalate              | 3.05  | UG/L  | ND                                | ND                                | 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                                | 4.1                               | ND                                |
| 2-Chloronaphthalene            | 1.87  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 3,3-Dichlorobenzidine          | 2.44  | UG/L  | ND                                | ND                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Hexachlorocyclopentadiene      | 1.25  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acenaphthene                   | 1.8   | UG/L  | ND                                | NR                                | ND                                | ND                                |
| Acenaphthylene                 | 1.77  | UG/L  | ND                                | NR                                | 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                                | 9.3                               | ND                                | 14.6                              |
| Benzidine                      | 1.52  | UG/L  | NR                                | ND                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Bis-(2-chloroethyl) ether      | 1.38  | UG/L  | ND                                | NR                                | 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                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Nitrobenzene                   | 1.6   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| N-nitrosodimethylamine         | 1.27  | UG/L  | ND                                | NR                                | 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  | 0.0                               | 9.3                               | 7.9                               | 14.6                              |
| =====                          | ===== | ===== | =====                             | =====                             | =====                             | =====                             |
| 1-Methylnaphthalene            | 2.18  | UG/L  | ND                                | NR                                | ND                                | ND                                |
| 2-Methylnaphthalene            | 2.14  | UG/L  | ND                                | NR                                | ND                                | ND                                |
| 2,6-Dimethylnaphthalene        | 2.16  | UG/L  | ND                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Pyridine                       | 3.33  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                          | ===== | ===== | =====                             | =====                             | =====                             | =====                             |

NR= Not Required  
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT  
Base/Neutral Compounds

| Analyte                        | MDL  | Units | N10-EFF<br>01-MAR-2017<br>P925944 | N10-EFF<br>06-JUN-2017<br>P946452 | N10-EFF<br>06-SEP-2017<br>P967283 | N10-EFF<br>07-NOV-2017<br>P981644 |
|--------------------------------|------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                |      |       |                                   |                                   |                                   |                                   |
| 1,2,4-Trichlorobenzene         | 1.52 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Diphenylhydrazine          | 1.37 | UG/L  | ND                                | NR                                | ND                                | ND                                |
| 2,4-Dinitrotoluene             | 1.36 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 2,6-Dinitrotoluene             | 1.53 | UG/L  | ND                                | NR                                | ND                                | ND                                |
| Dibenzo(a,h)anthracene         | 1.01 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Diethyl phthalate              | 3.05 | UG/L  | 3.9                               | ND                                | 5.4                               | 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                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Hexachlorocyclopentadiene      | 1.25 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acenaphthene                   | 1.8  | UG/L  | ND                                | NR                                | ND                                | ND                                |
| Acenaphthylene                 | 1.77 | UG/L  | ND                                | NR                                | 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  | 10.5                              | ND                                | ND                                | ND                                |
| Benzidine                      | 1.52 | UG/L  | NR                                | ND                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Bis-(2-chloroethyl) ether      | 1.38 | UG/L  | ND                                | NR                                | 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                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Nitrobenzene                   | 1.6  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| N-nitrosodimethylamine         | 1.27 | UG/L  | ND                                | NR                                | 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  | 14.4                              | 0.0                               | 5.4                               | 0.0                               |
| 1-Methylnaphthalene            | 2.18 | UG/L  | ND                                | NR                                | ND                                | ND                                |
| 2-Methylnaphthalene            | 2.14 | UG/L  | ND                                | NR                                | ND                                | ND                                |
| 2,6-Dimethylnaphthalene        | 2.16 | UG/L  | ND                                | NR                                | 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                                | NR                                | ND                                | ND                                |
| Pyridine                       | 3.33 | UG/L  | ND                                | ND                                | 4.1                               | ND                                |

NR= Not Required  
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT  
Base/Neutral Compounds

| Analyte                        | MDL  | Units | N34-REC WATER<br>01-MAR-2017<br>P925949 | N34-REC WATER<br>06-JUN-2017<br>P946457 | N34-REC WATER<br>06-SEP-2017<br>P967288 | N34-REC WATER<br>07-NOV-2017<br>P981649 |
|--------------------------------|------|-------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|                                |      |       |                                         |                                         |                                         |                                         |
| 1,2,4-Trichlorobenzene         | 1.52 | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,2-Diphenylhydrazine          | 1.37 | UG/L  | ND                                      | NR                                      | ND                                      | ND                                      |
| 2,4-Dinitrotoluene             | 1.36 | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 2,6-Dinitrotoluene             | 1.53 | UG/L  | ND                                      | NR                                      | 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                                      | NR                                      | 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                                      | NR                                      | ND                                      | ND                                      |
| Hexachlorocyclopentadiene      | 1.25 | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Acenaphthene                   | 1.8  | UG/L  | ND                                      | NR                                      | ND                                      | ND                                      |
| Acenaphthylene                 | 1.77 | UG/L  | ND                                      | NR                                      | 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                                      | 24.3                                    | 21.0                                    | 43.9                                    |
| Benzidine                      | 1.52 | UG/L  | NR                                      | ND                                      | NR                                      | 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                                      | NR                                      | ND                                      | ND                                      |
| Bis-(2-chloroethyl) ether      | 1.38 | UG/L  | ND                                      | NR                                      | 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                                      | NR                                      | 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                                      | NR                                      | ND                                      | ND                                      |
| Nitrobenzene                   | 1.6  | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| N-nitrosodimethylamine         | 1.27 | UG/L  | ND                                      | NR                                      | 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  | 0.0                                     | 24.3                                    | 21.0                                    | 43.9                                    |
| 1-Methylnaphthalene            | 2.18 | UG/L  | ND                                      | NR                                      | ND                                      | ND                                      |
| 2-Methylnaphthalene            | 2.14 | UG/L  | ND                                      | NR                                      | ND                                      | ND                                      |
| 2,6-Dimethylnaphthalene        | 2.16 | UG/L  | ND                                      | NR                                      | 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                                      | NR                                      | ND                                      | ND                                      |
| Pyridine                       | 3.33 | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |

NR= Not Required  
ND= Not Detected



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

Benzidines

|                       |       |       |             |             |             |             |
|-----------------------|-------|-------|-------------|-------------|-------------|-------------|
| Source:               |       |       | N01-PS_INF  | N01-PS_INF  | N01-PS_INF  | N01-PEN     |
| Date:                 |       |       | 01-MAR-2017 | 06-JUN-2017 | 07-NOV-2017 | 01-MAR-2017 |
|                       | MDL   | Units | P925934     | P946442     | P981634     | P925939     |
| =====                 | ===== | ===== | =====       | =====       | =====       | =====       |
| 3,3-Dichlorobenzidine | 2.44  | UG/L  | ND          | ND          | ND          | ND          |
| Benzidine             | 1.52  | UG/L  | NA          | ND          | ND          | NA          |
| =====                 | ===== | ===== | =====       | =====       | =====       | =====       |

|                       |       |       |             |             |             |             |
|-----------------------|-------|-------|-------------|-------------|-------------|-------------|
| Source:               |       |       | N01-PEN     | N01-PEN     | N10-EFF     | N10-EFF     |
| Date:                 |       |       | 06-JUN-2017 | 07-NOV-2017 | 01-MAR-2017 | 06-JUN-2017 |
|                       | MDL   | Units | P946447     | P981639     | P925944     | P946452     |
| =====                 | ===== | ===== | =====       | =====       | =====       | =====       |
| 3,3-Dichlorobenzidine | 2.44  | UG/L  | ND          | ND          | ND          | ND          |
| Benzidine             | 1.52  | UG/L  | ND          | ND          | NA          | ND          |
| =====                 | ===== | ===== | =====       | =====       | =====       | =====       |

|                       |       |       |             |               |               |               |
|-----------------------|-------|-------|-------------|---------------|---------------|---------------|
| Source:               |       |       | N10-EFF     | N34-REC WATER | N34-REC WATER | N34-REC WATER |
| Date:                 |       |       | 07-NOV-2017 | 01-MAR-2017   | 06-JUN-2017   | 07-NOV-2017   |
|                       | MDL   | Units | P981644     | P925949       | P946457       | P981649       |
| =====                 | ===== | ===== | =====       | =====         | =====         | =====         |
| 3,3-Dichlorobenzidine | 2.44  | UG/L  | ND          | ND            | ND            | ND            |
| Benzidine             | 1.52  | UG/L  | ND          | NA            | ND            | ND            |
| =====                 | ===== | ===== | =====       | =====         | =====         | =====         |

NA= Not Analyzed  
ND= Not Detected

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

## Priority Pollutants Purgeable Compounds, EPA Method 8260B

| Analyte                      | MDL  | Units | N01-PS_INF<br>01-MAR-2017<br>P925937 | N01-PS_INF<br>06-JUN-2017<br>P946445 | N01-PS_INF<br>06-SEP-2017<br>P967276 | N01-PS_INF<br>07-NOV-2017<br>P981637 |
|------------------------------|------|-------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Chloromethane                | .19  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Bromomethane                 | .22  | UG/L  | ND                                   | ND                                   | *                                    | *                                    |
| Vinyl chloride               | .24  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Chloroethane                 | .24  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,1-Dichloroethane           | .28  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Trichlorofluoromethane       | .26  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Methylene chloride           | .37  | UG/L  | ND                                   | *                                    | DNQ0.9                               | DNQ1.0                               |
| 1,1-Dichloroethene           | .37  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| trans-1,2-dichloroethene     | .34  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Chloroform                   | .3   | UG/L  | 2.1                                  | 2.3                                  | DNQ1.6                               | DNQ1.9                               |
| 1,2-Dichloroethane           | .32  | 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         | .37  | UG/L  | ND                                   | ND                                   | ND                                   | DNQ0.4                               |
| 1,2-Dichloropropane          | .43  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| trans-1,3-dichloropropene    | .35  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Trichloroethene              | .43  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Benzene                      | .37  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Dibromochloromethane         | .34  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,1,2-Trichloroethane        | .32  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| cis-1,3-dichloropropene      | .38  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 2-Chloroethylvinyl ether     | .25  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Bromoform                    | .36  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,1,2,2-Tetrachloroethane    | .33  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Tetrachloroethene            | .4   | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Chlorobenzene                | .4   | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Toluene                      | .37  | UG/L  | 10.5                                 | 4.0                                  | 4.3                                  | 5.9                                  |
| Ethylbenzene                 | .41  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Acrylonitrile                | .48  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Acrolein                     | .94  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,2-Dichlorobenzene          | .36  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,4-Dichlorobenzene          | .46  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,3-Dichlorobenzene          | .47  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Dichlorodifluoromethane      | 2.39 | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Halomethane Purgeable Cmpnds | .37  | UG/L  | 0.0                                  | 0.0                                  | 0.0                                  | 0.4                                  |
| Total Dichlorobenzenes       | .47  | UG/L  | 0.0                                  | 0.0                                  | 0.0                                  | 0.0                                  |
| Purgeable Compounds          | .94  | UG/L  | 12.6                                 | 6.3                                  | 6.8                                  | 9.2                                  |
| Allyl chloride               | .44  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 4-Methyl-2-pentanone         | .39  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| meta,para xylenes            | .85  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Styrene                      | .38  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,2,4-Trichlorobenzene       | .51  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Methyl Iodide                | .32  | UG/L  | *                                    | ND                                   | ND                                   | ND                                   |
| Chloroprene                  | .09  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Methyl methacrylate          | .32  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 2-Nitropropane               | .49  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| 1,2-Dibromoethane            | .41  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Isopropylbenzene             | .41  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Benzyl chloride              | .65  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| ortho-xylene                 | .34  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |
| Acetone                      | 6.74 | UG/L  | 651                                  | 390                                  | 170                                  | 364                                  |
| Carbon disulfide             | .37  | UG/L  | 1.1                                  | 6.9                                  | 3.3                                  | 2.3                                  |
| 2-Butanone                   | 5.56 | UG/L  | ND                                   | DNQ6.6                               | ND                                   | DNQ8.0                               |
| Methyl tert-butyl ether      | .36  | UG/L  | ND                                   | ND                                   | ND                                   | ND                                   |

ND= Not Detected

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.

\*= Data not reportable due to detection of this analyte in the method blank.



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

Priority Pollutants Purgeable Compounds, EPA Method 8260B

| Analyte                      | MDL  | Units | N01-PEN<br>01-MAR-2017<br>P925942 | N01-PEN<br>06-JUN-2017<br>P946450 | N01-PEN<br>06-SEP-2017<br>P967281 | N01-PEN<br>07-NOV-2017<br>P981642 |
|------------------------------|------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                              |      |       | =====                             | =====                             | =====                             | =====                             |
| Chloromethane                | .19  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Bromomethane                 | .22  | UG/L  | ND                                | ND                                | *                                 | ND                                |
| Vinyl chloride               | .24  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chloroethane                 | .24  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,1-Dichloroethane           | .28  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Trichlorofluoromethane       | .26  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Methylene chloride           | .37  | UG/L  | ND                                | *                                 | DNQ0.8                            | DNQ0.9                            |
| 1,1-Dichloroethene           | .37  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| trans-1,2-dichloroethene     | .34  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chloroform                   | .3   | UG/L  | ND                                | DNQ1.6                            | DNQ1.5                            | DNQ1.3                            |
| 1,2-Dichloroethane           | .32  | 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         | .37  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Dichloropropane          | .43  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| trans-1,3-dichloropropene    | .35  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Trichloroethene              | .43  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Benzene                      | .37  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Dibromochloromethane         | .34  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,1,2-Trichloroethane        | .32  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| cis-1,3-dichloropropene      | .38  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 2-Chloroethylvinyl ether     | .25  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Bromoform                    | .36  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,1,2,2-Tetrachloroethane    | .33  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Tetrachloroethene            | .4   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chlorobenzene                | .4   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Toluene                      | .37  | UG/L  | 0.5                               | DNQ0.9                            | DNQ1.6                            | DNQ0.8                            |
| Ethylbenzene                 | .41  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acrylonitrile                | .48  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acrolein                     | .94  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Dichlorobenzene          | .36  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,4-Dichlorobenzene          | .46  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,3-Dichlorobenzene          | .47  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Dichlorodifluoromethane      | 2.39 | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                        |      |       |                                   |                                   |                                   |                                   |
| Halomethane Purgeable Cmpnds | .37  | UG/L  | 0.0                               | 0.0                               | 0.0                               | 0.0                               |
| Total Dichlorobenzenes       | .47  | UG/L  | 0.0                               | 0.0                               | 0.0                               | 0.0                               |
| Purgeable Compounds          | .94  | UG/L  | 0.5                               | 2.5                               | 3.9                               | 3.0                               |
| =====                        |      |       |                                   |                                   |                                   |                                   |
| Allyl chloride               | .44  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 4-Methyl-2-pentanone         | .39  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| meta,para xylenes            | .85  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Styrene                      | .38  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2,4-Trichlorobenzene       | .51  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Methyl Iodide                | .32  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chloroprene                  | .09  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Methyl methacrylate          | .32  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 2-Nitropropane               | .49  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Dibromoethane            | .41  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Isopropylbenzene             | .41  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Benzyl chloride              | .65  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| ortho-xylene                 | .34  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acetone                      | 6.74 | UG/L  | 97                                | 341                               | 383                               | 314                               |
| Carbon disulfide             | .37  | UG/L  | ND                                | 2.7                               | 2.0                               | 2.0                               |
| 2-Butanone                   | 5.56 | UG/L  | ND                                | DNQ6.1                            | DNQ6.3                            | DNQ7.0                            |
| Methyl tert-butyl ether      | .36  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                        |      |       |                                   |                                   |                                   |                                   |

ND= Not Detected

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.

\*= Data not reportable due to detection of this analyte in the method blank.

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

Priority Pollutants Purgeable Compounds, EPA Method 8260B

| Analyte                      | MDL   | Units | N10-EFF<br>01-MAR-2017<br>P925947 | N10-EFF<br>06-JUN-2017<br>P946455 | N10-EFF<br>06-SEP-2017<br>P967286 | N10-EFF<br>07-NOV-2017<br>P981647 |
|------------------------------|-------|-------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                              |       |       | =====                             | =====                             | =====                             | =====                             |
| Chloromethane                | .19   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Bromomethane                 | .22   | UG/L  | ND                                | ND                                | *                                 | *                                 |
| Vinyl chloride               | .24   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chloroethane                 | .24   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,1-Dichloroethane           | .28   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Trichlorofluoromethane       | .26   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Methylene chloride           | .37   | UG/L  | ND                                | *                                 | DNQ0.8                            | DNQ0.8                            |
| 1,1-Dichloroethene           | .37   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| trans-1,2-dichloroethene     | .34   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chloroform                   | .3    | UG/L  | 1.4                               | DNQ1.8                            | DNQ1.8                            | DNQ1.2                            |
| 1,2-Dichloroethane           | .32   | 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         | .37   | UG/L  | ND                                | ND                                | DNQ0.5                            | ND                                |
| 1,2-Dichloropropane          | .43   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| trans-1,3-dichloropropene    | .35   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Trichloroethene              | .43   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Benzene                      | .37   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Dibromochloromethane         | .34   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,1,2-Trichloroethane        | .32   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| cis-1,3-dichloropropene      | .38   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 2-Chloroethylvinyl ether     | .25   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Bromoform                    | .36   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,1,2,2-Tetrachloroethane    | .33   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Tetrachloroethene            | .4    | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Chlorobenzene                | .4    | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Toluene                      | .37   | UG/L  | DNQ1.4                            | 2.5                               | 6.1                               | DNQ1.7                            |
| Ethylbenzene                 | .41   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acrylonitrile                | .48   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acrolein                     | .94   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Dichlorobenzene          | .36   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,4-Dichlorobenzene          | .46   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,3-Dichlorobenzene          | .47   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Dichlorodifluoromethane      | 2.39  | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                        | ===== | ===== | =====                             | =====                             | =====                             | =====                             |
| Halomethane Purgeable Cmpnds | .37   | UG/L  | 0.0                               | 0.0                               | 0.5                               | 0.0                               |
| Total Dichlorobenzenes       | .47   | UG/L  | 0.0                               | 0.0                               | 0.0                               | 0.0                               |
| Purgeable Compounds          | .94   | UG/L  | 2.8                               | 4.3                               | 9.2                               | 3.7                               |
| =====                        | ===== | ===== | =====                             | =====                             | =====                             | =====                             |
| Allyl chloride               | .44   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 4-Methyl-2-pentanone         | .39   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| meta,para xylenes            | .85   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Styrene                      | .38   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2,4-Trichlorobenzene       | .51   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Methyl Iodide                | .32   | UG/L  | *                                 | ND                                | ND                                | ND                                |
| Chloroprene                  | .09   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Methyl methacrylate          | .32   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 2-Nitropropane               | .49   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| 1,2-Dibromoethane            | .41   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Isopropylbenzene             | .41   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Benzyl chloride              | .65   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| ortho-xylene                 | .34   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| Acetone                      | 6.74  | UG/L  | 257                               | 482                               | 395                               | 512                               |
| Carbon disulfide             | .37   | UG/L  | ND                                | 3.5                               | 1.9                               | 1.3                               |
| 2-Butanone                   | 5.56  | UG/L  | ND                                | DNQ7.3                            | DNQ9.3                            | DNQ7.5                            |
| Methyl tert-butyl ether      | .36   | UG/L  | ND                                | ND                                | ND                                | ND                                |
| =====                        | ===== | ===== | =====                             | =====                             | =====                             | =====                             |

ND= Not Detected

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.

\*= Data not reportable due to detection of this analyte in the method blank.

NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

Priority Pollutants Purgeable Compounds, EPA Method 8260B

| Analyte                      | MDL   | Units | N34-REC WATER<br>01-MAR-2017<br>P925952 | N34-REC WATER<br>06-JUN-2017<br>P946460 | N34-REC WATER<br>13-JUN-2017<br>P951190 | N34-REC WATER<br>06-SEP-2017<br>P967291 |
|------------------------------|-------|-------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|                              |       |       | =====                                   | =====                                   | =====                                   | =====                                   |
| Chloromethane                | .19   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Bromomethane                 | .22   | UG/L  | ND                                      | ND                                      | ND                                      | *                                       |
| Vinyl chloride               | .24   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Chloroethane                 | .24   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,1-Dichloroethane           | .28   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Trichlorofluoromethane       | .26   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Methylene chloride           | .37   | UG/L  | ND                                      | 100.0                                   | ND                                      | ND                                      |
| 1,1-Dichloroethene           | .37   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| trans-1,2-dichloroethene     | .34   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Chloroform                   | .3    | UG/L  | 53.9                                    | 39.0                                    | 30.7                                    | 47.4                                    |
| 1,2-Dichloroethane           | .32   | 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         | .37   | UG/L  | 38.8                                    | 45.0                                    | 34.3                                    | 49.1                                    |
| 1,2-Dichloropropane          | .43   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| trans-1,3-dichloropropene    | .35   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Trichloroethene              | .43   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Benzene                      | .37   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Dibromochloromethane         | .34   | UG/L  | 14.8                                    | 31.8                                    | 24.4                                    | 30.1                                    |
| 1,1,2-Trichloroethane        | .32   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| cis-1,3-dichloropropene      | .38   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 2-Chloroethylvinyl ether     | .25   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Bromoform                    | .36   | UG/L  | ND                                      | 3.7                                     | 3.0                                     | 3.0                                     |
| 1,1,2,2-Tetrachloroethane    | .33   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Tetrachloroethene            | .4    | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Chlorobenzene                | .4    | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Toluene                      | .37   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Ethylbenzene                 | .41   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Acrylonitrile                | .48   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Acrolein                     | .94   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,2-Dichlorobenzene          | .36   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,4-Dichlorobenzene          | .46   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,3-Dichlorobenzene          | .47   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Dichlorodifluoromethane      | 2.39  | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| =====                        | ===== | ===== | =====                                   | =====                                   | =====                                   | =====                                   |
| Halomethane Purgeable Cmpnds | .37   | UG/L  | 53.6                                    | 80.5                                    | 61.7                                    | 82.2                                    |
| Total Dichlorobenzenes       | .47   | UG/L  | 0.0                                     | 0.0                                     | 0.0                                     | 0.0                                     |
| Purgeable Compounds          | .94   | UG/L  | 107.5                                   | 219.5                                   | 92.4                                    | 129.6                                   |
| =====                        | ===== | ===== | =====                                   | =====                                   | =====                                   | =====                                   |
| Allyl chloride               | .44   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 4-Methyl-2-pentanone         | .39   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| meta,para xylenes            | .85   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Styrene                      | .38   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,2,4-Trichlorobenzene       | .51   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Methyl Iodide                | .32   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Chloroprene                  | .09   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Methyl methacrylate          | .32   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 2-Nitropropane               | .49   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 1,2-Dibromoethane            | .41   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Isopropylbenzene             | .41   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Benzyl chloride              | .65   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| ortho-xylene                 | .34   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Acetone                      | 6.74  | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Carbon disulfide             | .37   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| 2-Butanone                   | 5.56  | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| Methyl tert-butyl ether      | .36   | UG/L  | ND                                      | ND                                      | ND                                      | ND                                      |
| =====                        | ===== | ===== | =====                                   | =====                                   | =====                                   | =====                                   |

ND= Not Detected

DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL.

\*= Data not reportable due to detection of this analyte in the method blank.



NORTH CITY WATER RECLAMATION PLANT  
2017 ANNUAL MONITORING REPORT

Priority Pollutants Purgeable Compounds, EPA Method 8260B

|                                                                                                           |       |       | N34-REC WATER |
|-----------------------------------------------------------------------------------------------------------|-------|-------|---------------|
|                                                                                                           |       |       | 07-NOV-2017   |
|                                                                                                           |       |       | P981652       |
| Analyte                                                                                                   | MDL   | Units |               |
| =====                                                                                                     | ===== | ===== | =====         |
| Chloromethane                                                                                             | .19   | UG/L  | DNQ0.6        |
| Bromomethane                                                                                              | .22   | UG/L  | *             |
| Vinyl chloride                                                                                            | .24   | UG/L  | ND            |
| Chloroethane                                                                                              | .24   | UG/L  | ND            |
| 1,1-Dichloroethane                                                                                        | .28   | UG/L  | ND            |
| Trichlorofluoromethane                                                                                    | .26   | UG/L  | ND            |
| Methylene chloride                                                                                        | .37   | UG/L  | ND            |
| 1,1-Dichloroethene                                                                                        | .37   | UG/L  | ND            |
| trans-1,2-dichloroethene                                                                                  | .34   | UG/L  | ND            |
| Chloroform                                                                                                | .3    | UG/L  | 58.3          |
| 1,2-Dichloroethane                                                                                        | .32   | UG/L  | ND            |
| 1,1,1-Trichloroethane                                                                                     | .4    | UG/L  | ND            |
| Carbon tetrachloride                                                                                      | .4    | UG/L  | ND            |
| Bromodichloromethane                                                                                      | .37   | UG/L  | 63.5          |
| 1,2-Dichloropropane                                                                                       | .43   | UG/L  | ND            |
| trans-1,3-dichloropropene                                                                                 | .35   | UG/L  | ND            |
| Trichloroethene                                                                                           | .43   | UG/L  | ND            |
| Benzene                                                                                                   | .37   | UG/L  | ND            |
| Dibromochloromethane                                                                                      | .34   | UG/L  | 35.8          |
| 1,1,2-Trichloroethane                                                                                     | .32   | UG/L  | ND            |
| cis-1,3-dichloropropene                                                                                   | .38   | UG/L  | ND            |
| 2-Chloroethylvinyl ether                                                                                  | .25   | UG/L  | ND            |
| Bromoform                                                                                                 | .36   | UG/L  | 3.7           |
| 1,1,2,2-Tetrachloroethane                                                                                 | .33   | UG/L  | ND            |
| Tetrachloroethene                                                                                         | .4    | UG/L  | ND            |
| Chlorobenzene                                                                                             | .4    | UG/L  | ND            |
| Toluene                                                                                                   | .37   | UG/L  | ND            |
| Ethylbenzene                                                                                              | .41   | UG/L  | ND            |
| Acrylonitrile                                                                                             | .48   | UG/L  | ND            |
| Acrolein                                                                                                  | .94   | UG/L  | ND            |
| 1,2-Dichlorobenzene                                                                                       | .36   | UG/L  | ND            |
| 1,4-Dichlorobenzene                                                                                       | .46   | UG/L  | ND            |
| 1,3-Dichlorobenzene                                                                                       | .47   | UG/L  | ND            |
| Dichlorodifluoromethane                                                                                   | 2.39  | UG/L  | ND            |
| =====                                                                                                     | ===== | ===== | =====         |
| Halomethane Purgeable Cmpnds                                                                              | .37   | UG/L  | 103.6         |
| Total Dichlorobenzenes                                                                                    | .47   | UG/L  | 0.0           |
| Purgeable Compounds                                                                                       | .94   | UG/L  | 161.9         |
| =====                                                                                                     | ===== | ===== | =====         |
| Allyl chloride                                                                                            | .44   | UG/L  | ND            |
| 4-Methyl-2-pentanone                                                                                      | .39   | UG/L  | ND            |
| meta,para xylenes                                                                                         | .85   | UG/L  | ND            |
| Styrene                                                                                                   | .38   | UG/L  | ND            |
| 1,2,4-Trichlorobenzene                                                                                    | .51   | UG/L  | ND            |
| Methyl Iodide                                                                                             | .32   | UG/L  | ND            |
| Chloroprene                                                                                               | .09   | UG/L  | ND            |
| Methyl methacrylate                                                                                       | .32   | UG/L  | ND            |
| 2-Nitropropane                                                                                            | .49   | UG/L  | ND            |
| 1,2-Dibromoethane                                                                                         | .41   | UG/L  | ND            |
| Isopropylbenzene                                                                                          | .41   | UG/L  | ND            |
| Benzyl chloride                                                                                           | .65   | UG/L  | ND            |
| ortho-xylene                                                                                              | .34   | UG/L  | ND            |
| Acetone                                                                                                   | 6.74  | UG/L  | ND            |
| Carbon disulfide                                                                                          | .37   | UG/L  | ND            |
| 2-Butanone                                                                                                | 5.56  | UG/L  | ND            |
| Methyl tert-butyl ether                                                                                   | .36   | UG/L  | ND            |
| =====                                                                                                     | ===== | ===== | =====         |
| ND= Not Detected                                                                                          |       |       |               |
| DNQ= Detected but not quantified. Result is less than minimum Level but greater than or equal to the MDL. |       |       |               |
| *= Data not reportable due to detection of this analyte in the method blank.                              |       |       |               |



Public Utilities Department  
Environmental Monitoring and Technical Services Division  
**Environmental Chemistry Services**

|                                                                                                                                                                      |                                                                                                 |                                                                                                  |                                                                                                   |                                                                      |                                                                                                                                        |                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 0 auto; width: 80%;"> <b>Deputy Director</b><br/>Peter Vroom, Ph.D.         </div>    |                                                                                                 |                                                                                                  |                                                                                                   |                                                                      |                                                                                                                                        |                                                                                                          |
| <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 0 auto; width: 80%;"> <b>Senior Chemist 1.00</b><br/>Elvira R. Mercado         </div> |                                                                                                 |                                                                                                  |                                                                                                   |                                                                      |                                                                                                                                        |                                                                                                          |
| <b>Pesticides Group</b><br>Associate Chemist 1.00<br>RONALD JARDINE                                                                                                  | <b>QA/DM Group</b><br>Associate Chemist 1.00<br>LEE KING                                        | <b>Metals Group</b><br>Associate Chemist 1.00<br>SANDRA VALENZUELA                               | <b>Pt. Loma WWTP / MBC Group</b><br>Associate Chemist 1.00<br>VESSELKA KOZAREV                    | <b>South Bay WRP Group</b><br>Associate Chemist 1.00<br>SONJI ROMERO | <b>GC/MS Group</b><br>Associate Chemist 1.00<br>ESTELA LANEZ                                                                           | <b>Inorganic/ Wet Chemistry Group</b><br>Associate Chemist 1.00<br>ROBERT SANDOVAL                       |
| Assistant Chemists: 4.00<br>BRENDA DOWELL<br>ERIC HUNT<br>PAOLA PARRA<br>Vacant                                                                                      | Assistant Chemists: 4.00<br>ARMANDO MARTINEZ<br>FERNANDO MARTINEZ<br>MARIA NOLLER<br>JULIE WEBB | Assistant Chemists: 5.00<br>ERICA FITZGERALD<br>OSCAR MIRANDA<br>JESUS NIETO<br>Vacant<br>Vacant | Assistant Chemists: 2.00<br>JERRY CZAJKOWSKI<br>TATSIANA GARCIA                                   | Assistant Chemists: 1.00<br>GREG SCHLIMME                            | Assistant Chemists: 6.00<br>VIRGINIA BASILAN*<br>ENRIQUE BLANCO<br>CHRISTINE CORRAO<br>CONNIE MATA<br>YOLANDA REYNOSO-MARTIN<br>Vacant | Assistant Chemists: 4.00<br>JACQUELINE CAZARES- MEDINA<br>KEN DANG<br>LEONARD PRZYBYLO<br>MICHAEL YOUNAN |
| Laboratory Technician: 2.00<br>MARICELA CORONEL*<br>TAYLOR-GRACE PRIEST                                                                                              | Laboratory Technician: 2.00<br>KAI CHAUVIN<br>JEANETTE KIRBY                                    | Laboratory Technician: 1.00<br>TIM CANNON                                                        | Laboratory Technician: 4.00<br>BRENDA GARCIA*<br>ROWENA RONSAIRO<br>FELIPE VEGA<br>ERICA WESTCOTT | Laboratory Technician: 2.00<br>JOSE CASTRO<br>ANGELICA DURAN         | Laboratory Technician: 2.00<br>GABRIEL FLORES<br>GLEN KOBAYASHI                                                                        | Laboratory Technician: 2.00<br>DANIEL HUANTE<br>Vacant*                                                  |
| Intern:                                                                                                                                                              | Word Processing Operator: 1.00<br>CORINNA QUINATA                                               | Intern:                                                                                          |                                                                                                   |                                                                      |                                                                                                                                        |                                                                                                          |

\*Primarily assigned to this group but performs additional assignment in support of another ECS work group.

