THE CITY OF SAN DIEGO

NORTH CITY WATER RECLAMATION PLANT

ANNUAL MONITORING REPORT
2012

(SDRWQCB Order No. 97-03)

Environmental Monitoring and Technical Services
Public Utilities Department
2392 Kincaid Road * Mail Station 45A * San Diego, CA 92101
Tel (619) 758-2300 Fax (619) 758-2309
January 30, 2013

Mr. David W. Gibson, Executive Officer  
California Regional Water Quality Control Board,  
San Diego Region  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123

Attn: Ground Water Unit

Dear Mr. Gibson:

Enclosed is the Annual Monitoring report for 2012 for the City of San Diego North City Water Reclamation Plant, as is specified in Monitoring and Reporting Program No. 97-03 for the production and purveyance of reclaimed water.

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

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

Sincerely,

Steve Meyer
Deputy Public Utilities Director

SWM/bb

Enclosure: CD containing PDF file of Report

cc: EPA Region 9
San Diego County Department of Environmental Health,
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 appropriate Method Detection Limit (MDL) in the table of data. Because "less than" values are averaged as zero, a number of the summary table values are 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

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

Metropolitan 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 Chemistry Laboratory
(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.

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, 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 99354-1613
(509)375-3131
Gross Alpha/Beta Radioactivity
Graphs:
Graphs of monthly averages show the arithmetic mean of the determinations made in the calendar month without weighting for variation in frequency or number of determinations. If the mean is less than the MDL (i.e. ‘nd’ or ‘<X’), the expressed graphical value is zero (0).

Terms:

**North City Water Reclamation Plant Source Codes**

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

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<td>Michael A. Duhamel</td>
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North City Water Reclamation Plant
2012 FLOWS

Monthly Totals

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<th>Month</th>
<th>Penasquitos Headworks Influent (MGD)</th>
<th>Plant Disinfect Flow 36&quot; Influent (MGD)</th>
<th>Plant Disinfect Drain (MGD)</th>
<th>Final Reclaim Water N Return (MGD)</th>
<th>FES Filter Effluent (MGD)</th>
<th>FES Primary Effluent (MGD)</th>
<th>Primary Sludge Hi Cap Sludge (MGD)</th>
<th>Primary Sludge Lo Cap Sludge (MGD)</th>
<th>WAS Filter Backwash (MGD) to MBC</th>
<th>Total Sludge Flow (MGD)</th>
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Average 232.3 267.2 25.3 38.6 173.5 218.02 166.74 450.51 22.32 0.51 4.12 24.34

Total 2787.5 3206.9 303.5 463.7 2082.0 2616.21 2699.62 5651.26 267.78 4.52 54.12 97.44 292.04

Daily Averages

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<tr>
<th>Month</th>
<th>Penasquitos Headworks Influent (MGD)</th>
<th>Plant Disinfect Flow 36&quot; Influent (MGD)</th>
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<th>Final Reclaim Water N Return (MGD)</th>
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<th>WAS Filter Backwash (MGD) to MBC</th>
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Average 7.6 8.8 .8 1.3 5.7 7.19 7.37 15.48 .73 .01 .15 .27 .80

Reclaim Water = Distribution Water

Y:EMTS\41.Sections\WCS\REPORTS\NCWRP\Annuals\Annual2012\Annual_NC_12.docx Page 6
North City Water Reclamation Plant

(N34-REC WATER) Recycled Water Chlorine Report

N34-REC WATER is the compliance point for reclaimed water.

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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

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<td>&lt;1.8</td>
</tr>
<tr>
<td>Nov</td>
<td>&lt;1.8</td>
</tr>
<tr>
<td>Dec</td>
<td>&lt;1.8</td>
</tr>
</tbody>
</table>
### North City Water Reclamation Plant

#### Recycled Water Turbidity Report

Data from in-plant meter 4

<table>
<thead>
<tr>
<th>Operations 2012</th>
<th>Average Daily Turbidity (NTU)</th>
<th>Minimum Daily Turbidity (NTU)</th>
<th>Maximum Daily Turbidity (NTU)</th>
<th>Time Over 5 NTU's (MINUTES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan</td>
<td>0.19</td>
<td>0.17</td>
<td>0.43</td>
<td>0.00</td>
</tr>
<tr>
<td>Feb</td>
<td>0.19</td>
<td>0.17</td>
<td>0.48</td>
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<tr>
<td>Mar</td>
<td>0.19</td>
<td>0.16</td>
<td>0.63</td>
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<tr>
<td>Apr</td>
<td>0.22</td>
<td>0.18</td>
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<tr>
<td>May</td>
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<td>0.14</td>
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<tr>
<td>Jun</td>
<td>0.15</td>
<td>0.13</td>
<td>0.39</td>
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<tr>
<td>Jul</td>
<td>0.19</td>
<td>0.16</td>
<td>1.05</td>
<td>0.00</td>
</tr>
<tr>
<td>Aug</td>
<td>0.17</td>
<td>0.13</td>
<td>0.69</td>
<td>0.00</td>
</tr>
<tr>
<td>Sep</td>
<td>0.16</td>
<td>0.12</td>
<td>0.82</td>
<td>0.00</td>
</tr>
<tr>
<td>Oct</td>
<td>0.17</td>
<td>0.14</td>
<td>0.58</td>
<td>0.00</td>
</tr>
<tr>
<td>Nov</td>
<td>0.12</td>
<td>0.09</td>
<td>0.76</td>
<td>0.00</td>
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<tr>
<td>Dec</td>
<td>0.22</td>
<td>0.15</td>
<td>0.71</td>
<td>0.00</td>
</tr>
<tr>
<td>Average:</td>
<td>0.18</td>
<td></td>
<td></td>
<td>Total: 0.00</td>
</tr>
</tbody>
</table>

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 (N25A1673) or (N25A1674), located at meter room of Area 25 (Tertiary Filter Structures)
North City Reclamation Plant Monthly Monitoring Report
Annual Monitoring Report

2012

(N34-REC) Reclaimed Water - Daily Parameters

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Biochemical Oxygen Demand</th>
<th>Total Dissolved</th>
<th>Total Suspended</th>
<th>Volatile Suspended</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units:</td>
<td>Units:</td>
<td>Units:</td>
<td>Units:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>(pH)</td>
</tr>
<tr>
<td>MDL:</td>
<td>2</td>
<td>28</td>
<td>1.4</td>
<td>1.4</td>
<td></td>
</tr>
</tbody>
</table>

|                      |                            |                 |                 |                    |        |
| JANUARY - 2012      | <2                         | 696             | <1.4            | ND                 | 6.84   |
| FEBRUARY - 2012     | ND                          | 787             | <1.4            | <1.6               | 6.80   |
| MARCH - 2012        | <2                         | 752             | ND              | ND                 | 6.88   |
| APRIL - 2012        | <2                         | 763             | ND              | ND                 | 6.89   |
| MAY - 2012          | ND                          | 842             | ND              | ND                 | 6.86   |
| JUNE - 2012         | ND                          | 906             | ND              | ND                 | 6.87   |
| JULY - 2012         | ND                          | 929             | ND              | ND                 | 6.82   |
| AUGUST - 2012       | ND                          | 862             | ND              | ND                 | 6.91   |
| SEPTEMBER - 2012    | ND                          | 826             | <1.4            | <1.4               | 6.98   |
| OCTOBER - 2012      | <2                          | 821             | ND              | ND                 | 6.92   |
| NOVEMBER - 2012     | ND                          | 788             | ND              | ND                 | 6.91   |
| DECEMBER - 2012     | ND                          | 767             | ND              | ND                 | 6.87   |

|                      |                            |                 |                 |                    |        |
| Average:            |                            |                 |                 |                    |        |
| Maximum:            |                            |                 |                 |                    |        |
| Minimum:            |                            |                 |                 |                    |        |

(M01-PS-INF) Pump Station 64 Influent - Daily Parameters

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Biochemical Oxygen Demand</th>
<th>Total Dissolved Solids (mg/L)</th>
<th>Total Suspended Solids (mg/L)</th>
<th>Volatile Suspended Solids (mg/L)</th>
<th>Turbidity (NTU)</th>
<th>pH COMPOSITE (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(mg/L)</td>
<td>(mg/L)</td>
<td>(mg/L)</td>
<td>(NTU)</td>
<td></td>
</tr>
<tr>
<td>JANUARY - 2012</td>
<td>270</td>
<td>963</td>
<td>234</td>
<td>212</td>
<td>117</td>
<td>7.50</td>
</tr>
<tr>
<td>FEBRUARY - 2012</td>
<td>251</td>
<td>1020</td>
<td>226</td>
<td>203</td>
<td>114</td>
<td>7.46</td>
</tr>
<tr>
<td>MARCH - 2012</td>
<td>270</td>
<td>1010</td>
<td>287</td>
<td>187</td>
<td>110</td>
<td>7.45</td>
</tr>
<tr>
<td>APRIL - 2012</td>
<td>238</td>
<td>992</td>
<td>252</td>
<td>226</td>
<td>113</td>
<td>7.45</td>
</tr>
<tr>
<td>MAY - 2012</td>
<td>279</td>
<td>1020</td>
<td>283</td>
<td>252</td>
<td>113</td>
<td>7.37</td>
</tr>
<tr>
<td>JUNE - 2012</td>
<td>292</td>
<td>1100</td>
<td>262</td>
<td>233</td>
<td>128</td>
<td>7.42</td>
</tr>
<tr>
<td>JULY - 2012</td>
<td>277</td>
<td>1040</td>
<td>280</td>
<td>245</td>
<td>120</td>
<td>7.43</td>
</tr>
<tr>
<td>AUGUST - 2012</td>
<td>272</td>
<td>993</td>
<td>255</td>
<td>227</td>
<td>119</td>
<td>7.38</td>
</tr>
<tr>
<td>SEPTEMBER - 2012</td>
<td>262</td>
<td>984</td>
<td>266</td>
<td>233</td>
<td>116</td>
<td>7.40</td>
</tr>
<tr>
<td>OCTOBER - 2012</td>
<td>263</td>
<td>993</td>
<td>276</td>
<td>244</td>
<td>116</td>
<td>7.37</td>
</tr>
<tr>
<td>NOVEMBER - 2012</td>
<td>276</td>
<td>985</td>
<td>278</td>
<td>245</td>
<td>131</td>
<td>7.42</td>
</tr>
<tr>
<td>DECEMBER - 2012</td>
<td>267</td>
<td>977</td>
<td>249</td>
<td>217</td>
<td>112</td>
<td>7.35</td>
</tr>
</tbody>
</table>

|                      |                            |                 |                 |                    |                |                    |
| Average:            | 268                        | 1086             | 256             | 227                | 117            | 7.42               |
| Maximum:            | 292                        | 1100             | 283             | 252                | 131            | 7.50               |
| Minimum:            | 238                        | 963              | 287             | 187                | 110            | 7.35               |

a MDL for VSS was changed from 1.6 to 1.4 MG/L on August 14, 2012

All samples are 24-hour composite.
NA= Not Analyzed
NS= Not Sampled
ND= Not Detected
North City Reclamation Plant
Annual Monitoring Report

2012

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

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Biochemical Oxygen Demand (mg/L)</th>
<th>Total Dissolved Solids (mg/L)</th>
<th>Total Suspended Solids (mg/L)</th>
<th>Volatile Suspended Solids (mg/L)</th>
<th>Turbidity (NTU)</th>
<th>pH COMPOSITE (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JANUARY - 2012</td>
<td>271</td>
<td>707</td>
<td>341</td>
<td>289</td>
<td>121</td>
<td>7.49</td>
</tr>
<tr>
<td>FEBRUARY - 2012</td>
<td>256</td>
<td>731</td>
<td>312</td>
<td>270</td>
<td>115</td>
<td>7.48</td>
</tr>
<tr>
<td>MARCH - 2012</td>
<td>311</td>
<td>742</td>
<td>344</td>
<td>297</td>
<td>114</td>
<td>7.51</td>
</tr>
<tr>
<td>APRIL - 2012</td>
<td>297</td>
<td>752</td>
<td>325</td>
<td>282</td>
<td>108</td>
<td>7.55</td>
</tr>
<tr>
<td>MAY - 2012</td>
<td>268</td>
<td>785</td>
<td>339</td>
<td>284</td>
<td>103</td>
<td>7.49</td>
</tr>
<tr>
<td>JUNE - 2012</td>
<td>265</td>
<td>817</td>
<td>308</td>
<td>262</td>
<td>111</td>
<td>7.53</td>
</tr>
<tr>
<td>JULY - 2012</td>
<td>264</td>
<td>772</td>
<td>332</td>
<td>272</td>
<td>115</td>
<td>7.50</td>
</tr>
<tr>
<td>AUGUST - 2012</td>
<td>237</td>
<td>726</td>
<td>276</td>
<td>232</td>
<td>102</td>
<td>7.45</td>
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<tr>
<td>SEPTEMBER - 2012</td>
<td>226</td>
<td>687</td>
<td>327</td>
<td>274</td>
<td>112</td>
<td>7.56</td>
</tr>
<tr>
<td>OCTOBER - 2012</td>
<td>252</td>
<td>782</td>
<td>356</td>
<td>299</td>
<td>107</td>
<td>7.43</td>
</tr>
<tr>
<td>NOVEMBER - 2012</td>
<td>294</td>
<td>687</td>
<td>324</td>
<td>271</td>
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<td>313</td>
<td>703</td>
<td>323</td>
<td>276</td>
<td>105</td>
<td>7.47</td>
</tr>
</tbody>
</table>

Average: 271 734 326 276 111 7.49
Maximum: 313 817 356 299 121 7.56
Minimum: 226 687 276 232 102 7.43

All samples are 24-hour composite.
NA= Not Analyzed
NS= Not Sampled
ND= Not Detected

![Biological Oxygen Demand Year 2012](image)
NORTH CITY WATER RECLAMATION PLANT
ANNUAL MONITORING REPORT
2012

Total Dissolved Solids
Year 2012

Month

mg/L

N01-PS_INF
N01-PEN
N34-REC

Total Suspended Solids
Year 2012

Month

mg/L

N01-PS_INF
N01-PEN
N34-REC
* Turbidity average daily results taken from in-plant meter
## NORTH CITY WATER RECLAMATION PLANT
### ANNUAL MONITORING REPORT

#### (N34-REC) Reclam Water - Monthly/Annual Averages

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Aluminum</th>
<th>Antimony</th>
<th>Arsenic</th>
<th>Barium</th>
<th>Beryllium</th>
<th>Boron</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL:</td>
<td>47</td>
<td>2.9</td>
<td>.4</td>
<td>.039</td>
<td>.022</td>
<td>7</td>
</tr>
<tr>
<td>Units:</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
</tr>
<tr>
<td>Limit:</td>
<td>1000</td>
<td>6</td>
<td>50</td>
<td>1000</td>
<td>4</td>
<td>700</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Analyte</th>
<th>Cadmium</th>
<th>Chromium</th>
<th>Cobalt</th>
<th>Copper</th>
<th>Iron</th>
<th>Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL:</td>
<td>.53</td>
<td>1.2</td>
<td>.85</td>
<td>2</td>
<td>37</td>
<td>2</td>
</tr>
<tr>
<td>Units:</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
</tr>
<tr>
<td>Limit:</td>
<td>5</td>
<td>50</td>
<td>50</td>
<td>1000</td>
<td>4</td>
<td>700</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Analyte</th>
<th>Manganese</th>
<th>Mercury</th>
<th>Molybdenum</th>
<th>Nickel</th>
<th>Selenium</th>
<th>Silver</th>
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</thead>
<tbody>
<tr>
<td>MDL:</td>
<td>.24</td>
<td>.005</td>
<td>.89</td>
<td>.53</td>
<td>.28</td>
<td>.4</td>
</tr>
<tr>
<td>Units:</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
</tr>
<tr>
<td>Limit:</td>
<td>50</td>
<td>2</td>
<td>100</td>
<td>50</td>
<td>40</td>
<td>50</td>
</tr>
</tbody>
</table>

---

MLD’s listed are the maximum MDL for the past 12 months

ND= Not Detected
### North City Water Reclamation Plant
#### Annual Monitoring Report

**2012**

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

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Thallium</th>
<th>Vanadium</th>
<th>Zinc</th>
<th>Calcium</th>
<th>Lithium</th>
<th>Magnesium</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL:</td>
<td>3.9</td>
<td>.64</td>
<td>2.5</td>
<td>.04</td>
<td>.002</td>
<td>.1</td>
</tr>
<tr>
<td>Units:</td>
<td>UG/L</td>
<td>UG/L</td>
<td>UG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
</tr>
<tr>
<td>Limit:</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Thallium</th>
<th>Vanadium</th>
<th>Zinc</th>
<th>Calcium</th>
<th>Lithium</th>
<th>Magnesium</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

|                          | 0.0      | 0.39     | 26.0 | 55.0    | 0.024   | 26.3      |

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Potassium</th>
<th>Sodium</th>
<th>Calcium</th>
<th>Magnesium</th>
<th>Total Hardness</th>
<th>Total Alkalinity</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL:</td>
<td>.3</td>
<td>1</td>
<td>.1</td>
<td>.4</td>
<td>.4</td>
<td>20</td>
</tr>
<tr>
<td>Units:</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
</tr>
<tr>
<td>Limit:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

|                          |          |          |         |           |          |          |
|                          |          |          |         |           |          |          |
|                          |          |          |         |           |          |          |
|                          |          |          |         |           |          |          |

|                          |          |          |         |           |          |          |
|                          |          |          |         |           |          |          |

|                          | 0.0      | 0.39     | 26.0    | 55.0     | 0.024    | 26.3     |

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Chloride</th>
<th>Fluoride</th>
<th>Nitrate</th>
<th>Sulfate</th>
<th>Ortho MBAS (Surfactants)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL:</td>
<td>7</td>
<td>.05</td>
<td>.04</td>
<td>9</td>
<td>.2</td>
</tr>
<tr>
<td>Units:</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
<td>MG/L</td>
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<tr>
<td>Limit:</td>
<td>300</td>
<td>1</td>
<td></td>
<td>300</td>
<td></td>
</tr>
</tbody>
</table>

|                          |          |          |         |           |                        |
|                          |          |          |         |           |                        |
|                          |          |          |         |           |                        |
|                          |          |          |         |           |                        |

|                          |          |          |         |           |                        |
|                          |          |          |         |           |                        |

|                          |          |          |         |           |                        |
|                          |          |          |         |           |                        |

|                          | 0.0      | 0.39     | 26.0    | 55.0     | 0.024    | 26.3     |

MDL's listed are the maximum MDL for the past 12 months

ND= Not Detected

---

Y:\EMTS41\Sections\WCS\REPORTS\NCWRP\Annuals\Annual2012\Annual_NC_12.docx
## NORTH CITY WATER RECLAMATION PLANT
### ANNUAL MONITORING REPORT
#### 2012

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

<table>
<thead>
<tr>
<th>Analyte:</th>
<th>Organic Carbon</th>
<th>Sodium Adsorption</th>
<th>Sodium</th>
<th>Cyanides</th>
<th>Dissolved Solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDL:</td>
<td></td>
<td></td>
<td>.002</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td>Units:</td>
<td>MG/L</td>
<td>Percent</td>
<td>Percent</td>
<td>MG/L</td>
<td>MG/L</td>
</tr>
<tr>
<td>Limit:</td>
<td></td>
<td></td>
<td>6</td>
<td>0.2</td>
<td>1200</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------</td>
<td>-------------------</td>
<td>--------</td>
<td>----------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>JANUARY - 2012</strong></td>
<td>6.2</td>
<td>58</td>
<td>4.0</td>
<td>ND</td>
<td>696</td>
</tr>
<tr>
<td><strong>FEBRUARY - 2012</strong></td>
<td>5.9</td>
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MDL’s listed are the maximum MDL for the past 12 months

ND= Not Detected
## NORTH CITY WATER RECLAMATION PLANT
### ANNUAL MONITORING REPORT

#### 2012

(N01-PS-INF) Pump Station 64 Influent - Annual Averages

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MDLs listed are the maximum MDL for the past 12 months

ND = Not Detected
NR = Not Required
# NORTH CITY WATER RECLAMATION PLANT
## ANNUAL MONITORING REPORT
### 2012

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

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MDL’s listed are the maximum MDL for the past 12 months

ND= Not Detected
NR= Not Required
### Analyte: Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron

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- **July-2012:** ND
- **August-2012:** ND
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- **December-2012:** ND

**Annual Average:** 2351 UG/L

### Analyte: Cadmium, Chromium, Cobalt, Copper, Iron, Lead

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**Annual Average:** 2351 UG/L

### Analyte: Lithium, Manganese, Mercury, Molybdenum, Nickel, Selenium

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- **October-2012:** ND
- **November-2012:** ND
- **December-2012:** ND

**Annual Average:** 2351 UG/L

MDL’s listed are the maximum MDL for the past 12 months

**ND** = Not Detected
**NR** = Not Required
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#### Total Dissolved Solids

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#### MDL's listed are the maximum MDL for the past 12 months

- ND= Not Detected
- NR= Not Required
Annual Pretreatment Program Sludge Analysis

2012 Annual Pretreatment Program Sludge Analysis
(QUARTERLY SLUDGE PROJECT)

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

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

The Quarterly Sludge Project was conducted 4 times during 2012, composite and grab samples were taken in February, May, August, and October.

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

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

Abbreviations:

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<td>N01-PEN</td>
<td>NCWRP Penasquitos influent</td>
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<td>NCWRP reclaimed water.</td>
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ND= Not Detected
NR= Not Required

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

2012

(Metals from Digestion and Ions from Supernatant)

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ND= Not Detected  
NR= Not Required

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

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## Other Metals and Ions

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ND= Not Detected
NR= Not Required

N34-REC WATER = NCWRP Reclaimed Water After Mixing
N10-EFF = Primary Effluent
N01-PS_INF = North City Pump Station Influent (PS #64)
N01-PEN = Penasquitos Pump Station Influent
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ND= Not Detected
NR= Not Required

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

(Metals from Digestion and Ions from Supernatant)
## Radioactivity

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pCi/L = picocuries

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
#### QUARTERLY SLUDGE PROJECT

**2012**

#### Physical Parameters

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NR= Not Required
NA= Not Analyzed
ND= Not Detected
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NR= Not Required  
NA= Not Analyzed  
ND= Not Detected
### Physical Parameters

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NA= Not Analyzed  
ND= Not Detected
## Organo - Tins

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Date: 07-FEB-2012  
Sample ID: MDL Units  
Tributyltin: 2 UG/L  
Dibutyltin: 7 UG/L  
Monobutyltin: 16 UG/L  
ND = Not Detected

### Date: 01-MAY-2012  
Sample ID: MDL Units  
Tributyltin: ND  
Dibutyltin: ND  
Monobutyltin: ND

### Date: 08-AUG-2012  
Sample ID: MDL Units  
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ND = Not Detected
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NA= Not Analyzed  
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### Chlorinated Pesticides

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## Base/Neutral Compounds

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### Polyne. Aromatic Hydrocarbons

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ND= Not Detected
### Phenolic Compounds

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**ND** = Not Detected  
**NA** = Not Analyzed
### Phenolic Compounds

#### NORTH CITY WATER RECLAMATION PLANT
#### ANNUAL MONITORING REPORT
#### 2012

**Additional analytes determined:**

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| Phenol                                   | 1.76 UG/L | 24.90 | ND | 12.30 | 10.50 |

| Total Non-Chlorinated Phenols            | 2.16 UG/L | 24.90 | 0.00 | 12.30 | 10.50 |

| Total Chlorinated Phenols                | 1.67 UG/L | 0.00 | 0.00 | 0.00 | 0.00 |

**Additional analytes determined:**

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| Total Non-Chlorinated Phenols            | 2.16 UG/L | 0.00 | 0.00 | 0.00 |

| Total Chlorinated Phenols                | 1.67 UG/L | 0.00 | 0.00 | 0.00 |

| Phenols                                  | 2.16 UG/L | 0.00 | 0.00 | 0.00 |

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NA = Not Analyzed
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Additional analytes determined

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ND= Not Detected