# EPA CLEAN UP
# PRODUCTION WELL START UP/SHUTDOWN
## Apr-05

| WELL | DATE | START TIME | SHUT DOWN | DURATION | PURPOSE |
|---|---|---|---|---|---|

MICHAEL LOWE
Water Utility
Operations Superintendent

cc: Bill Bryden
James Dye
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EPA TOTAL RUN TIME
April Total 720 Hours

| Well | Total Run Hours |
|---|---|
| EPA 1 | |
| EPA 2 | |
| EPA 3 | |
| EPA 4 | |
| EPA 5 | |
| EPA 6 | |
| EPA 7 | |
| EPA 108 | |
| EPA 109 | |
| EPA 110 | |
| EPA 111 | |
| EPA 112 | |
| NEWMARK 3 | |

# San Bernardino Municipal Water Department Water Quality Monthly Report
## Newmark OU/Towers/19th St GAC/Muscoy OU
## Month of March 2005

| Waterman GAC Treatment Plant | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | Week 1 PCE (ug/L) | Week 1 TCE (ug/L) | Week 2 PCE (ug/L) | Week 2 TCE (ug/L) | Week 3 PCE (ug/L) | Week 3 TCE (ug/L) | Week 4 PCE (ug/L) | Week 4 TCE (ug/L) | Week 5 PCE (ug/L) | Week 5 TCE (ug/L) | $NO_3$ (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Well 02 | 3/9/2005 | A | | | <1.0 | | | | | | | | | | | |
| EPA Well 04 | 3/9/2005 | A | | | 1.0 | | | | | | | | | | | |
| EPA Well 05 | 3/9/2005 | A | | | <1.0 | | | | | | | | | | | |
| Combined Influent | 3/9/2005 | | | | | | | 2.3 | 0.6 | | | | | | | |
| LEAD VESSEL 1B | 3/9/2005 | | <1.1 | <1.1 | 1.5 | 3.4 | 1.3 | 3.6 | 1.3 | 3.6 | 1.2 | 3.6 | 1.2 | 3.7 | 1.3 | |
| LEAD VESSEL 2B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 2.7 | 1.1 | 2.7 | 1.1 | 3.0 | 1.0 | 2.8 | 1.1 | 2.9 | 1.1 | |
| LEAD VESSEL 3B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 3.3 | 1.2 | 3.3 | 1.3 | 3.6 | 1.2 | 3.4 | 1.3 | 3.4 | 1.3 | |
| LEAD VESSEL 4B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 3.8 | 1.3 | 3.9 | 1.3 | 4.2 | 1.3 | 3.8 | 1.3 | 4.0 | 1.3 | |
| LEAD VESSEL 5B | 3/9/2005 | | <1.1 | <1.1 | 1.0 | 3.6 | 1.3 | 3.8 | 1.3 | 3.9 | 1.3 | 3.8 | 1.4 | 3.9 | 1.3 | |
| LEAD VESSEL 6B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 3.5 | 1.2 | 4.1 | 1.3 | 3.9 | 1.1 | 4.0 | 1.3 | 4.1 | 1.3 | |
| LEAD VESSEL 7B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 3.7 | 1.3 | 3.8 | 1.2 | 3.9 | 1.2 | 3.8 | 1.3 | 4.1 | 1.2 | |
| LEAD VESSEL 8B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 3.6 | 1.3 | 4.0 | 1.3 | 4.1 | 1.3 | 3.8 | 1.3 | 3.8 | 1.3 | |
| Combined Effluent | 3/9/2005 | | <1.1 | <1.1 | 1.0 | <0.5 | 0.5 | <0.5 | 0.6 | <0.5 | 0.6 | <0.5 | 0.7 | <0.5 | 0.7 | |

| Newmark GAC Treatment Plant | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | Week 1 PCE (ug/L) | Week 1 TCE (ug/L) | Week 2 PCE (ug/L) | Week 2 TCE (ug/L) | Week 3 PCE (ug/L) | Week 3 TCE (ug/L) | Week 4 PCE (ug/L) | Week 4 TCE (ug/L) | Week 5 PCE (ug/L) | Week 5 TCE (ug/L) | $NO_3$ (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Well 06 | 3/9/2005 | A | | | 1.0 | | | | | | | | | | | |
| EPA Well 07 | 3/9/2005 | A | | | 5.0 | | | | | | | | | | | |
| Newmark Well 03 | 3/22/2005 | A | | | 1.0 | | | | | | | | | | | |
| Combined Influent | 3/9/2005 | | | | | | | 4.8 | 0.6 | | | | | | | |
| LEAD VESSEL 1B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | 1.8 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 2B | 3/9/2005 | | <1.1 | <1.1 | 1.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 3B | 3/9/2005 | | <1.1 | <1.1 | 1.0 | 0.0 | 0.0 | 1.7 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 4B | 3/9/2005 | | <1.1 | <1.1 | 2.5 | 0.0 | 0.0 | 0.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 5B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 6B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 7B | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | <0.5 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Combined Effluent | 3/9/2005 | | <1.1 | <1.1 | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

| 17th Street GAC Treatment Plant | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | Week 1 PCE (ug/L) | Week 1 TCE (ug/L) | Week 2 PCE (ug/L) | Week 2 TCE (ug/L) | Week 3 PCE (ug/L) | Week 3 TCE (ug/L) | Week 4 PCE (ug/L) | Week 4 TCE (ug/L) | Week 5 PCE (ug/L) | Week 5 TCE (ug/L) | $NO_3$ (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Well 03 | 3/9/2005 | A | | | 2.5 | | | | | | | | | | | |
| Combined Influent | 3/9/2005 | | | | | | | 4.4 | 1.0 | | | | | | | |
| LEAD VESSEL 1A | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | 1.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 2A | 3/9/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | 2.2 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 3A | 3/9/2005 | | <1.1 | <1.1 | 1.0 | 0.0 | 0.0 | 2.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Combined Effluent | 3/9/2005 | | <1.1 | <1.1 | 20.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

| 19th Street SOUTH GAC Treatment Plant | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | Week 1 PCE (ug/L) | Week 1 TCE (ug/L) | Week 2 PCE (ug/L) | Week 2 TCE (ug/L) | Week 3 PCE (ug/L) | Week 3 TCE (ug/L) | Week 4 PCE (ug/L) | Week 4 TCE (ug/L) | Week 5 PCE (ug/L) | Week 5 TCE (ug/L) | $NO_3$ (mg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19th Street Well 01 | 3/11/2005 | A | | | <1.0 | | | | | | | | | | | |
| 19th Street Well 02 | 3/11/2005 | A | | | 1.0 | | | | | | | | | | | |
| Combined Influent | 3/11/2005 | | | | | | | 4.0 | <0.5 | | | | | | | |
| LEAD VESSEL 1A | 3/11/2005 | | <1.1 | <1.1 | 34.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 2A | 3/11/2005 | | <1.1 | <1.1 | 1.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 3A | 3/11/2005 | | <1.1 | <1.1 | 1.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 4A | 3/11/2005 | | <1.1 | <1.1 | <1.0 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Combined Effluent | 3/11/2005 | | <1.1 | <1.1 | 2300 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

# San Bernardino Municipal Water Department Water Quality Monthly Report
## Newmark OU/Towers/19th St GAC/Muscoy OU
## Month of March 2005

| | | | | | | Week 1 | | Week 2 | | Week 3 | | Week 4 | | Week 5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19th Street NORTH GAC Treatment Plant | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | PCE (ug/L) | TCE (ug/L) | PCE (ug/L) | TCE (ug/L) | PCE (ug/L) | TCE (ug/L) | PCE (ug/L) | TCE (ug/L) | PCE (ug/L) | TCE (ug/L) | $NO_3$ (mg/L) |
| EPA Well 01 | 3/14/2005 | A | | | <1.0 | | | | | | | | | | | |
| EPA Well 108 | 3/14/2005 | A | | | 44.0 | | | | | | | | | | | |
| EPA Well 109 | 3/17/2005 | A | | | 300.0 | | | | | | | | | | | |
| EPA Well 110 | 3/15/2005 | A | | | 47.0 | | | | | | | | | | | |
| EPA Well 111 | 3/14/2005 | A | | | 200.0 | | | | | | | | | | | |
| EPA Well 112 | 3/16/2005 | A | | | 160.0 | | | | | | | | | | | |
| Combined Influent | 3/11/2005 | | | | | | | 3.7 | 0.8 | | | | | | | |
| LEAD VESSEL 1 | 3/11/2005 | | <1.1 | <1.1 | 410 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 2 | 3/11/2005 | | <1.1 | <1.1 | 1300 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 3 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 4 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 5 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 6 | 3/11/2005 | | <1.1 | <1.1 | 2300 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 8 | 3/11/2005 | | <1.1 | <1.1 | 38 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 9 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 10 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 11 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 12 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| LEAD VESSEL 13 | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Combined Effluent | 3/11/2005 | | <1.1 | <1.1 | >5700 | 0.0 | 0.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

| Waterman Stripping Towers | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | PCE | TCE | TB | FB |
|---|---|---|---|---|---|---|---|---|---|
| Waterman Combined Tower Influent | 3/8/2005 | | | | | 5.7 | 0.8 | <0.5 | <0.5 |
| Waterman N. Tower Effluent | 3/8/2005 | A | | | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 |
| Waterman S. Tower Effluent | 3/8/2005 | A | | | 2.0 | <0.5 | <0.5 | <0.5 | <0.5 |

| Newmark Stripping Towers | DATE | Colilert P/A | MPN Total | MPN Fecal | HPC | PCE | TCE | TB | FB |
|---|---|---|---|---|---|---|---|---|---|
| Newmark W. Tower Influent | 3/8/2005 | | | | | <0.5 | <0.5 | <0.5 | <0.5 |
| Newmark W. Tower Effluent | 3/8/2005 | A | | | 4.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Newmark E. Tower Influent | 3/8/2005 | | | | | <0.5 | <0.5 | <0.5 | <0.5 |
| Newmark E. Tower Effluent | 3/8/2005 | A | | | 5.0 | <0.5 | <0.5 | <0.5 | <0.5 |

NOTE: If any VOC contaminant is detected in the Towers' Effluent Samples, the laboratory report(s) will be attached for DHS review.

**COMMENTS:**