

Appendix G

Summary of Nonradiological Monitoring Data



Packaging Samples for Shipment to Off-Site Laboratories

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Table G-1
West Valley Demonstration Project State Pollutant Discharge Elimination
System (SPDES) Sampling Program

| Outfall | Parameter | Daily Maximum Limit* | Sample Frequency |
|---|---|----------------------|------------------|
| 001 (Process and Storm Wastewater) | Flow | Monitor | 2 per discharge |
| | Aluminum, total | 14.0 mg/L | 2 per discharge |
| | Ammonia (NH ₃) | Monitor | 2 per discharge |
| | Arsenic, dissolved | 0.15 mg/L | 2 per discharge |
| | BOD ₅ | 10.0 mg/L | 2 per discharge |
| | Iron, total | Monitor | 2 per discharge |
| | Zinc, total recoverable | 0.48 mg/L | 2 per discharge |
| | Suspended solids | 45.0 mg/L | 2 per discharge |
| | Cyanide, amenable to chlorination | 0.022 mg/L | 2 per discharge |
| | Settleable solids | 0.30 mL/L | 2 per discharge |
| | pH (range) | 6.5 — 8.5 | 2 per discharge |
| | Oil and grease | 15.0 mg/L | 2 per discharge |
| | Sulfate (as S) | Monitor | 2 per discharge |
| | Sulfide, dissolved | 0.4 mg/L | 2 per discharge |
| | Manganese, total | 2.0 mg/L | 2 per discharge |
| | Nitrate (as N) | Monitor | 2 per discharge |
| | Nitrite (as N) | 0.1 mg/L | 2 per discharge |
| | Chromium, total recoverable | 0.3 mg/L | 2 per discharge |
| | Chromium, hexavalent, total recoverable | 0.011 mg/L | 2 per discharge |
| | Cadmium, total recoverable | 0.002 mg/L | 2 per discharge |
| | Copper, total recoverable | 0.030 mg/L | 2 per discharge |
| | Copper, dissolved | Monitor | 2 per discharge |
| | Lead, total recoverable | 0.006 mg/L | 2 per discharge |
| | Nickel, total recoverable | 0.14 mg/L | 2 per discharge |
| | Dichlorodifluoromethane | 0.01 mg/L | 2 per discharge |
| | Trichlorofluoromethane | 0.01 mg/L | 2 per discharge |
| | 3,3-dichlorobenzidine | 0.01 mg/L | 2 per discharge |
| | Tributyl phosphate | 32 mg/L | 2 per discharge |
| | Vanadium, total recoverable | 0.014 mg/L | 2 per discharge |
| | Cobalt, total recoverable | 0.005 mg/L | 2 per discharge |
| | Selenium, total recoverable | 0.004 mg/L | 2 per discharge |
| | Hexachlorobenzene | 0.02 mg/L | 2 per discharge |
| | Alpha - BHC | 0.00001 mg/L | 2 per discharge |
| Heptachlor | 0.00001 mg/L | 2 per discharge | |
| Surfactants (as LAS) | 0.4 mg/L | 2 per discharge | |
| Xylene | 0.05 mg/L | 2 per discharge | |
| 2-butanone | 0.5 mg/L | 2 per discharge | |
| Total Dissolved Solids | Monitor | 2 per discharge | |

* Daily average limitations are also identified in the permit but require only monitoring for all parameters except total aluminum (daily average limit - 7.0 mg/L); suspended solids (daily average limit - 30.0 mg/L); BOD₅ for the sum of outfalls 001, 007, and 008 (daily average limit - 5.0 mg/L); and ammonia for the sum of outfalls 001 and 007 (daily average limit - 1.49 mg/L).

Table G-1 (concluded)
West Valley Demonstration Project State Pollutant Discharge Elimination
System (SPDES) Sampling Program

| Outfall | Parameter | Daily Maximum Limit* | Sample Frequency |
|--|--------------------------------------|-----------------------------|-------------------------|
| 001 (continued) | Barium | 0.5 mg/L | annual |
| | Antimony | 1.0 mg/L | annual |
| | Chloroform | 0.3 mg/L | annual |
| | Bis(2-ethylhexyl)phthalate | 1.6 mg/L | semiannual |
| | 4-Dodecene | 0.6 mg/L | semiannual |
| | Titanium | 0.65 mg/L | semiannual |
| 007 (Sanitary and Utility Wastewater) | Flow | Monitor | 3 per month |
| | Ammonia (as NH ₃) | Monitor | 3 per month |
| | BOD ₅ | 10 mg/L | 3 per month |
| | Iron, total | Monitor | 3 per month |
| | Solids, suspended | 45.0 mg/L | 3 per month |
| | Solids, settleable | 0.3 mL/L | weekly |
| | pH (range) | 6.5 — 8.5 | weekly |
| | Nitrite (as N) | 0.1 mg/L | 3 per month |
| | Oil and grease | 15 mg/L | 3 per month |
| | Chlorine, total residual | 0.1 mg/L | weekly |
| | Chloroform | 0.20 mg/L | annual |
| | 008 (French Drain Wastewater) | Flow | Monitor |
| BOD ₅ | | 5.0 mg/L | 3 per month |
| Iron, total | | Monitor | 3 per month |
| pH (range) | | 6.5 — 8.5 | 3 per month |
| Cadmium, total recoverable | | 0.002 mg/L | 3 per month |
| Lead, total recoverable | | 0.006 mg/L | 3 per month |
| Silver, total | | 0.008 mg/L | annual |
| Zinc, total | | 0.100 mg/L | annual |
| Arsenic | | 0.17 mg/L | annual |
| Chromium | | 0.13 mg/L | annual |
| Sum of Outfalls 001, 007, and 008 | | Iron, total | 0.30 mg/L |
| | BOD ₅ | Monitor | 3 per month |
| Sum of Outfalls 001 and 007 | Ammonia (as NH ₃) | 2.1 mg/L | 3 per month |
| Pseudo-monitoring point (116) | Solids, total dissolved | 500 mg/L | 2 per discharge |

* Daily average limitations are also identified in the permit but require only monitoring for all parameters except total aluminum (daily average limit - 7.0 mg/L); suspended solids (daily average limit - 30.0 mg/L); BOD₅ for the sum of outfalls 001, 007, and 008 (daily average limit - 5.0 mg/L); and ammonia for the sum of outfalls 001 and 007 (daily average limit - 1.49 mg/L).

Table G-2
2001 SPDES Results for Outfall 001 (WNSP001)
Water Quality

| <i>Analyte:</i> | Ammonia, as NH₃ (mg/L) | | BOD₅ (mg/L) | | Cyanide (mg/L) <i>(amenable to chlorination)</i> | | Discharge Rate (MGD) | |
|----------------------|---|------------|----------------------------------|------------|---|------------|--------------------------------|------------|
| <i>Permit limit:</i> | <i>Monitor</i> | | <i>10.0 mg/L daily maximum</i> | | <i>0.022 mg/L daily maximum</i> | | <i>Monitor</i> | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| <i>January</i> | <0.016 | 0.021 | <2.0 | <2.0 | <0.013 | 0.016 | 0.334 | 0.510 |
| <i>February*</i> | | | | | | | | |
| <i>March</i> | 0.18 | 0.19 | <2.0 | <2.0 | <0.010 | <0.010 | 0.371 | 0.471 |
| <i>April*</i> | | | | | | | | |
| <i>May</i> | <0.010 | <0.010 | <2.0 | <2.0 | <0.010 | <0.010 | 0.241 | 0.647 |
| <i>June*</i> | | | | | | | | |
| <i>July*</i> | | | | | | | | |
| <i>August</i> | <0.010 | <0.010 | <2.0 | <2.0 | <0.010 | <0.010 | 0.147 | 0.271 |
| <i>September*</i> | | | | | | | | |
| <i>October*</i> | | | | | | | | |
| <i>November</i> | <0.011 | 0.012 | <2.0 | <2.0 | <0.010 | <0.010 | 0.225 | 0.357 |
| <i>December*</i> | | | | | | | | |

| <i>Analyte:</i> | Nitrate, as N (mg/L) | | Nitrite, as N (mg/L) | | Oil & Grease (mg/L) | |
|----------------------|--------------------------------|------------|--------------------------------|------------|-----------------------------------|------------|
| <i>Permit limit:</i> | <i>Monitor</i> | | <i>0.1 mg/L daily maximum</i> | | <i>15.0 mg/L daily maximum</i> | |
| Month | Avg | Max | Avg | Max | Avg | Max |
| <i>January</i> | 1.1 | 1.1 | <0.05 | <0.05 | <5.0 | <5.0 |
| <i>February*</i> | | | | | | |
| <i>March</i> | 1.4 | 1.5 | <0.05 | <0.05 | <5.0 | <5.0 |
| <i>April*</i> | | | | | | |
| <i>May</i> | 1.2 | 1.3 | <0.05 | <0.05 | <5.0 | <5.0 |
| <i>June*</i> | | | | | | |
| <i>July*</i> | | | | | | |
| <i>August</i> | <0.11 | 0.17 | <0.05 | <0.05 | <5.0 | <5.0 |
| <i>September*</i> | | | | | | |
| <i>October*</i> | | | | | | |
| <i>November</i> | <0.05 | <0.05 | <0.05 | <0.05 | <5.0 | <5.0 |
| <i>December*</i> | | | | | | |

* No discharge this month.

Note: No results exceeded the permit limits.

Table G-2 (concluded)
2001 SPDES Results for Outfall 001 (WNSP001)
Water Quality

| <i>Analyte</i> | pH (standard units) | | Solids Settleable (mL/L) | | Solids Total Dissolved (mg/L) | | Solids Total Suspended (mg/L) | |
|----------------|-------------------------------|------------|--|------------|---|------------|--|------------|
| | <i>Permit limit:</i> | 6.5 to 8.5 | 0.30 ml/L daily maximum | | Monitor | | 45.0 mg/L daily maximum 30.0 mg/L daily average | |
| Month | Min | Max | Avg | Max | Avg | Max | Avg | Max |
| January | 7.0 | 7.1 | <0.1 | <0.1 | 548 | 565 | 25.5 | 44.0 |
| February* | | | | | | | | |
| March | 8.0 | 8.1 | <0.1 | <0.1 | 622 | 629 | 4.8 | 5.5 |
| April* | | | | | | | | |
| May | 7.3 | 8.0 | <0.1 | <0.1 | 690 | 695 | 4.2 | 5.0 |
| June* | | | | | | | | |
| July* | | | | | | | | |
| August | 7.5 | 7.8 | <0.1 | <0.1 | 846 | 872 | 5.5 | 8.0 |
| September* | | | | | | | | |
| October* | | | | | | | | |
| November | 7.6 | 8.1 | <0.1 | <0.1 | 794 | 830 | <4.6 | 7.3 |
| December* | | | | | | | | |

| <i>Analyte</i> | Sulfate, as S (mg/L) | | Sulfide, as S Dissolved (mg/L) | | Surfactants as LAS (mg/L) | |
|----------------|--------------------------------|------------|--|------------|-------------------------------------|------------|
| | <i>Permit limit:</i> | Monitor | 0.4 mg/L daily maximum | | 0.4 mg/L daily maximum | |
| Month | Avg | Max | Avg | Max | Avg | Max |
| January | 99 | 161 | <0.2 | <0.2 | <0.1 | <0.1 |
| February* | | | | | | |
| March | 45 | 47 | <0.2 | <0.2 | <0.1 | <0.1 |
| April* | | | | | | |
| May | 29 | 45 | <0.2 | <0.2 | <0.1 | <0.1 |
| June* | | | | | | |
| July* | | | | | | |
| August | 62 | 66 | <0.2 | <0.2 | <0.1 | <0.1 |
| September* | | | | | | |
| October* | | | | | | |
| November | 62 | 62 | <0.2 | <0.2 | <0.1 | <0.1 |
| December* | | | | | | |

* No discharge this month.

Note: No results exceeded the permit limits.

Table G-3
2001 SPDES Results for Outfall 001 (WNSP001)
Metals

| <i>Analyte:</i> | Aluminum Total (mg/L) | | Arsenic Dissolved (mg/L) | | Cadmium Total Recoverable (mg/L) | | Cobalt Total Recoverable (mg/L) | |
|----------------------|---|------------|---|------------|---|------------|--|------------|
| Permit limit: | 14 mg/L daily maximum 7.0 mg/L daily average | | 0.15 mg/L daily maximum | | 0.002 mg/L daily maximum | | 0.005 mg/L daily maximum | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| January | <0.227 | 0.254 | <0.001 | <0.001 | <0.001 | <0.001 | <0.004 | <0.004 |
| February* | | | | | | | | |
| March | 0.320 | 0.373 | <0.001 | <0.001 | <0.001 | <0.001 | <0.004 | <0.004 |
| April* | | | | | | | | |
| May | <0.200 | <0.200 | <0.001 | <0.001 | <0.001 | <0.001 | <0.004 | <0.004 |
| June* | | | | | | | | |
| July* | | | | | | | | |
| August | <0.200 | <0.200 | <0.003 | <0.003 | <0.001 | <0.001 | <0.004 | <0.004 |
| September* | | | | | | | | |
| October* | | | | | | | | |
| November | <0.203 | 0.206 | 0.001 | 0.001 | <0.001 | <0.001 | <0.004 | <0.004 |
| December* | | | | | | | | |

| <i>Analyte:</i> | Chromium Total Recoverable (mg/L) | | Chromium VI Total Recoverable (mg/L) | | Copper Dissolved (mg/L) | |
|----------------------|--|------------|---|------------|--|------------|
| Permit limit: | 0.3 mg/L daily maximum | | 0.011 mg/L daily maximum | | Monitor | |
| Month | Avg | Max | Avg | Max | Avg | Max |
| January | <0.002 | <0.002 | <0.002 | <0.002 | 0.005 | 0.006 |
| February* | | | | | | |
| March | <0.002 | <0.002 | <0.010 | <0.010 | <0.010 | <0.010 |
| April* | | | | | | |
| May | <0.002 | <0.002 | <0.010 | <0.010 | <0.010 | <0.010 |
| June* | | | | | | |
| July* | | | | | | |
| August | <0.002 | <0.002 | <0.010 | <0.010 | <0.010 | <0.010 |
| September* | | | | | | |
| October* | | | | | | |
| November | <0.002 | <0.002 | <0.010 | <0.010 | <0.010 | <0.010 |
| December* | | | | | | |

* No discharge this month.

Note: No results exceeded the permit limits.

Table G-3 (concluded)
2001 SPDES Results for Outfall 001 (WNSP001)
Metals

| <i>Analyte:</i> | Copper Total Recoverable (mg/L) | | Iron Total (mg/L) | | Lead Total Recoverable (mg/L) | | Manganese Total (mg/L) | |
|----------------------|--|------------|----------------------------------|------------|--|------------|---------------------------------------|------------|
| Permit limit: | <i>0.030 mg/L daily maximum</i> | | <i>Monitor</i> | | <i>0.006 mg/L daily maximum</i> | | <i>2.0 mg/L daily maximum</i> | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| <i>January</i> | <0.012 | 0.016 | 0.242 | 0.260 | 0.002 | 0.003 | 0.021 | 0.021 |
| <i>February*</i> | | | | | | | | |
| <i>March</i> | <0.010 | <0.010 | 0.290 | 0.342 | <0.0005 | <0.0005 | 0.018 | 0.019 |
| <i>April*</i> | | | | | | | | |
| <i>May</i> | <0.010 | <0.010 | 0.104 | 0.113 | <0.003 | <0.003 | 0.0268 | 0.0462 |
| <i>June*</i> | | | | | | | | |
| <i>July*</i> | | | | | | | | |
| <i>August</i> | <0.010 | <0.010 | 0.165 | 0.201 | <0.003 | <0.003 | 0.0662 | 0.0815 |
| <i>September*</i> | | | | | | | | |
| <i>October*</i> | | | | | | | | |
| <i>November</i> | <0.010 | <0.010 | 0.183 | 0.187 | <0.0005 | <0.0005 | 0.0096 | 0.0115 |
| <i>December*</i> | | | | | | | | |

| <i>Analyte:</i> | Nickel Total Recoverable (mg/L) | | Selenium Total Recoverable (mg/L) | | Vanadium Total Recoverable (mg/L) | | Zinc Total Recoverable (mg/L) | |
|----------------------|--|------------|--|------------|--|------------|--|------------|
| Permit limit: | <i>0.14 mg/L daily maximum</i> | | <i>0.004 mg/L daily maximum</i> | | <i>0.014 mg/L daily maximum</i> | | <i>0.48 mg/L daily maximum</i> | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| <i>January</i> | <0.010 | <0.010 | <0.001 | <0.001 | <0.010 | <0.010 | 0.012 | 0.013 |
| <i>February*</i> | | | | | | | | |
| <i>March</i> | <0.010 | <0.010 | <0.001 | <0.001 | <0.010 | <0.010 | <0.010 | <0.010 |
| <i>April*</i> | | | | | | | | |
| <i>May</i> | <0.010 | <0.010 | <0.001 | <0.001 | <0.010 | <0.010 | <0.010 | <0.010 |
| <i>June*</i> | | | | | | | | |
| <i>July*</i> | | | | | | | | |
| <i>August</i> | <0.010 | <0.010 | <0.002 | <0.002 | <0.010 | <0.010 | <0.010 | <0.010 |
| <i>September*</i> | | | | | | | | |
| <i>October*</i> | | | | | | | | |
| <i>November</i> | <0.010 | <0.010 | <0.001 | 0.001 | <0.010 | <0.010 | <0.013 | 0.016 |
| <i>December*</i> | | | | | | | | |

* No discharge this month.

Note: No results exceeded the permit limits.

Table G-4
2001 SPDES Results for Outfall 001 (WNSP001)
Organics

VOLATILES

| <i>Analyte:</i> | 2-Butanone (mg/L) | | Dichlorofluoromethane (mg/L) | | Trichlorofluoromethane (mg/L) | | Xylene (mg/L) | |
|----------------------|-----------------------------|------------|--|------------|---|------------|----------------------------|------------|
| <i>Permit limit:</i> | 0.5 mg/L daily maximum | | 0.01 mg/L daily maximum | | 0.01 mg/L daily maximum | | 0.05 mg/L daily maximum | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| January | <0.010 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| February* | | | | | | | | |
| March | <0.010 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| April* | | | | | | | | |
| May | <0.010 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| June* | | | | | | | | |
| July* | | | | | | | | |
| August | <0.010 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| September* | | | | | | | | |
| October* | | | | | | | | |
| November | <0.010 | <0.010 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| December* | | | | | | | | |

SEMIVOLATILES

| <i>Analyte:</i> | Alpha-BHC (mg/L) | | 3,3-Dichlorobenzidene (mg/L) | | Hexachlorobenzene (mg/L) | |
|----------------------|-------------------------------|------------|--|------------|------------------------------------|------------|
| <i>Permit limit:</i> | 0.00001 mg/L daily maximum | | 0.01 mg/L daily maximum | | 0.02 mg/L daily maximum | |
| Month | Avg | Max | Avg | Max | Avg | Max |
| January | <0.000009 | <0.000009 | <0.009 | <0.009 | <0.010 | <0.010 |
| February* | | | | | | |
| March | <0.000009 | <0.000009 | <0.0099 | <0.0099 | <0.010 | <0.010 |
| April* | | | | | | |
| May | <0.000009 | <0.000009 | <0.009 | <0.009 | <0.010 | <0.010 |
| June* | | | | | | |
| July* | | | | | | |
| August | <0.000009 | <0.000009 | <0.009 | <0.009 | <0.010 | <0.010 |
| September* | | | | | | |
| October* | | | | | | |
| November | <0.000009 | <0.000009 | <0.009 | <0.009 | <0.010 | <0.010 |
| December* | | | | | | |

* No discharge this month.

Note: No results exceeded the permit limits.

Table G-4 (concluded)
2001 SPDES Results for Outfall 001 (WNSP001)
Organics

SEMIVOLATILES (concluded)

| Analyte: | Heptachlor (mg/L) | | Tributyl phosphate (mg/L) | |
|----------------------|---------------------------------------|---------------------|--------------------------------------|------------------|
| Permit limit: | <i>0.00001 mg/L daily maximum</i> | | <i>32 mg/L daily maximum</i> | |
| Month | Avg | Max | Avg | Max |
| <i>January</i> | <i><0.000009</i> | <i><0.000009</i> | <i><0.010</i> | <i><0.010</i> |
| <i>February*</i> | | | | |
| <i>March</i> | <i><0.000009</i> | <i><0.000009</i> | <i><0.010</i> | <i><0.010</i> |
| <i>April*</i> | | | | |
| <i>May</i> | <i><0.000009</i> | <i><0.000009</i> | <i><0.010</i> | <i><0.010</i> |
| <i>June*</i> | | | | |
| <i>July*</i> | | | | |
| <i>August</i> | <i><0.000009</i> | <i><0.000009</i> | <i><0.010</i> | <i><0.010</i> |
| <i>September*</i> | | | | |
| <i>October*</i> | | | | |
| <i>November</i> | <i><0.000009</i> | <i><0.000009</i> | <i><0.010</i> | <i><0.010</i> |
| <i>December*</i> | | | | |

** No discharge this month.*

Note: No results exceeded the permit limits.

Table G-5
2001 SPDES Results for Outfall 007 (WNSP007)
Water Quality and Iron

| <i>Analyte:</i> | Ammonia, as NH₃ (mg/L) | | BOD₅ (mg/L) | | Chlorine Total Residual (mg/L) | | Discharge Rate (MGD) | | Iron Total (mg/L) | |
|----------------------|---|------------|----------------------------------|------------|--|------------|--------------------------------|------------|-----------------------------|------------|
| <i>Permit limit:</i> | <i>Monitor</i> | | <i>10 mg/L daily maximum</i> | | <i>0.1 mg/L daily maximum</i> | | <i>Monitor</i> | | <i>Monitor</i> | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| January | <0.034 | 0.063 | <2.2 | 2.7 | 0.03 | 0.05 | 0.018 | 0.038 | 0.095 | 0.105 |
| February | <0.010 | <0.010 | <2.2 | 2.7 | 0.02 | 0.02 | 0.028 | 0.050 | 0.132 | 0.169 |
| March | <0.010 | <0.010 | <2.0 | <2.0 | 0.02 | 0.04 | 0.031 | 0.052 | 0.143 | 0.211 |
| April | <0.015 | 0.019 | <2.1 | 2.2 | 0.02 | 0.03 | 0.017 | 0.014 | 0.0587 | 0.0798 |
| May | <0.014 | 0.022 | <2.6 | 3.9 | 0.02 | 0.03 | 0.013 | 0.036 | 0.0701 | 0.0844 |
| June | 0.037 | 0.062 | <2.1 | 2.4 | 0.02 | 0.03 | 0.017 | 0.018 | 0.0493 | 0.0557 |
| July | <0.010 | <0.010 | <2.0 | <2.0 | 0.04 | 0.08 | 0.013 | 0.023 | 0.0535 | 0.0801 |
| August | <0.010 | <0.010 | <2.0 | <2.0 | 0.03 | 0.06 | 0.014 | 0.021 | <0.053 | 0.069 |
| September | <0.010 | <0.010 | <2.0 | <2.0 | 0.02 | 0.02 | 0.016 | 0.021 | 0.0528 | 0.0583 |
| October | <0.020 | 0.040 | <2.0 | <2.0 | 0.02 | 0.02 | 0.019 | 0.025 | 0.0461 | 0.0471 |
| November | 0.030 | 0.032 | <2.0 | <2.0 | 0.02 | 0.03 | 0.016 | 0.024 | 0.048 | 0.056 |
| December | <0.017 | 0.031 | <2.0 | 2.1 | 0.02 | 0.02 | 0.018 | 0.018 | 0.084 | 0.125 |

| <i>Analyte:</i> | Nitrite, as N (mg/L) | | Oil & Grease (mg/L) | | pH (standard units) | | Solids Settleable (mL/L) | | Solids Total Suspended (mg/L) | |
|----------------------|--------------------------------|------------|-----------------------------------|------------|-------------------------------|------------|------------------------------------|------------|--|------------|
| <i>Permit limit:</i> | <i>0.1 mg/L daily maximum</i> | | <i>15 mg/L daily maximum</i> | | <i>6.5 to 8.5</i> | | <i>0.3 mL/L daily maximum</i> | | <i>45.0 mg/L daily maximum 30.0 mg/L daily average</i> | |
| Month | Avg | Max | Avg | Max | Avg | Max | Avg | Max | Avg | Max |
| January | <0.05 | <0.05 | <5.0 | <5.0 | 7.5 | 7.9 | <0.1 | <0.1 | <2.0 | <2.0 |
| February | <0.05 | <0.05 | <5.0 | <5.0 | 7.3 | 7.8 | <0.1 | <0.1 | <2.0 | <2.0 |
| March | <0.05 | <0.05 | <5.6 | 6.7 | 7.3 | 7.8 | <0.1 | <0.1 | <2.0 | <2.0 |
| April | <0.05 | <0.05 | <5.0 | <5.0 | 7.4 | 7.7 | <0.1 | <0.1 | <2.5 | 3.5 |
| May | <0.05 | <0.05 | <5.0 | <5.0 | 7.4 | 7.7 | <0.1 | <0.1 | 5.2 | 6.0 |
| June | <0.05 | <0.05 | <5.0 | <5.0 | 7.4 | 7.7 | <0.1 | <0.1 | <3.8 | 7.5 |
| July | <0.05 | <0.05 | <5.0 | <5.0 | 7.4 | 7.7 | <0.1 | <0.1 | <2.0 | <2.0 |
| August | <0.05 | <0.05 | <7.1 | 11.0 | 7.6 | 7.9 | <0.1 | <0.3 | <2.0 | <2.0 |
| September | <0.05 | <0.05 | <5.0 | <5.0 | 7.6 | 7.9 | <0.2 | <0.3 | <3.0 | 4.5 |
| October | <0.05 | <0.05 | <6.3 | 8.8 | 7.7 | 8.2 | <0.1 | <0.1 | <6.0 | 12.0 |
| November | <0.05 | <0.05 | <5.0 | <5.0 | 7.9 | 8.0 | <0.1 | <0.1 | <3.3 | 6.0 |
| December | <0.05 | <0.05 | <5.0 | <5.0 | 7.7 | 8.0 | <0.1 | <0.1 | <2.2 | 2.5 |

Note: No results exceeded the permit limits.

Table G-6
2001 SPDES Results for Outfall 008 (WNSP008)
Water Quality

| Analyte: | BOD₅ (mg/L) | | Discharge Rate (GPD) | | pH (standard units) | |
|----------------------|----------------------------------|------------|--------------------------------|------------|-------------------------------|------------|
| Permit limit: | 5.0 mg/L daily maximum | | Monitor | | 6.5 to 8.5 | |
| Month | Avg | Max | Avg | Max | Avg | Max |
| January | <2.0 | <2.0 | 1,761 | 2,137 | 6.5 | 7.4 |
| February | <2.0 | <2.0 | 2,214 | 2,622 | 6.9 | 7.2 |
| March | <2.0 | <2.0 | 1,690 | 2,260 | 7.0 | 7.2 |
| April | <2.0 | <2.0 | 2,125 | 2,267 | 6.8 | 6.9 |
| May | <2.0 | <2.0 | 1,152 | 1,226 | 6.9 | 7.3 |
| June* | | | | | | |
| July* | | | | | | |
| August* | | | | | | |
| September* | | | | | | |
| October* | | | | | | |
| November* | | | | | | |
| December* | | | | | | |

| Analyte: | Cadmium Total Recoverable (mg/L) | | Iron Total (mg/L) | | Lead Total Recoverable (mg/L) | |
|----------------------|--|------------|---------------------------------------|------------|---|------------|
| Permit limit: | 0.002 mg/L daily maximum | | Monitor | | 0.006 mg/L daily maximum | |
| Month | Avg | Max | Avg | Max | Avg | Max |
| January | <0.001 | <0.001 | 0.146 | 0.152 | <0.0005 | <0.0005 |
| February | <0.001 | <0.001 | 0.0841 | 0.0979 | <0.0005 | <0.0005 |
| March | <0.001 | <0.001 | 0.396 | 0.991 | <0.002 | <0.002 |
| April | <0.001 | <0.001 | 0.0534 | 0.0582 | <0.005 | 0.010 |
| May | <0.001 | <0.001 | 0.296 | 0.544 | <0.003 | 0.003 |
| June* | | | | | | |
| July* | | | | | | |
| August* | | | | | | |
| September* | | | | | | |
| October* | | | | | | |
| November* | | | | | | |
| December* | | | | | | |

* No discharge this month; discharge terminated.

Table G-7
2001 SPDES Results for Sums of Outfalls 001, 007, 008, and 116
Water Quality

2001 Sums of Outfalls 001, 007, and 008

| <i>Analyte:</i> | Ammonia, as NH₃** Flow-Weighted (mg/L) | | BOD₅ Flow-Weighted (mg/L) | | Iron, Total Flow-Weighted Net Average (mg/L) |
|----------------------|---|------------|--|------------|--|
| Permit limit: | 2.1 mg/L daily maximum 1.49 mg/L daily average | | 5.0 mg/L daily average | | 0.30 mg/L daily average |
| Month | Avg | Max | Avg | Max | Avg |
| <i>January</i> | <0.020 | 0.029 | <2.0 | <2.0 | 0.05 |
| <i>February</i> | <0.010 | <0.010 | <2.2 | <2.5 | 0.00 |
| <i>March</i> | <0.116 | <0.169 | <2.0 | <2.0 | 0.00 |
| <i>April</i> | <0.015 | 0.019 | <2.1 | <2.2 | 0.00 |
| <i>May</i> | <0.014 | 0.022 | <2.1 | <2.2 | 0.00 |
| <i>June</i> | 0.037 | 0.062 | <2.1 | <2.4 | 0.00 |
| <i>July</i> | <0.010 | <0.010 | <2.0 | <2.0 | 0.00 |
| <i>August</i> | <0.010 | <0.010 | <2.0 | <2.0 | 0.00 |
| <i>September</i> | <0.010 | <0.010 | <2.0 | <2.0 | 0.00 |
| <i>October</i> | <0.020 | 0.040 | <2.0 | <2.0 | 0.00 |
| <i>November</i> | <0.019 | 0.032 | <2.0 | <2.0 | 0.00 |
| <i>December</i> | <0.017 | 0.031 | <2.0 | 2.1 | 0.00 |

2001 Results for Outfall 116

| <i>Analyte:</i> | Solids, Total Dissolved (mg/L) | |
|----------------------|--|------------|
| Permit limit: | 500 mg/L daily maximum | |
| Month | Avg | Max |
| <i>January</i> | 321 | 335 |
| <i>February*</i> | | |
| <i>March</i> | 364 | 446 |
| <i>April*</i> | | |
| <i>May</i> | 340 | 349 |
| <i>June*</i> | | |
| <i>July*</i> | | |
| <i>August</i> | 378 | 442 |
| <i>September*</i> | | |
| <i>October*</i> | | |
| <i>November</i> | 368 | 402 |
| <i>December*</i> | | |

* No discharge this month.

** Sum of Outfalls 001 and 007 only.

Note: No results exceeded the permit limits.

Table G-8
2001 Annual/Semiannual SPDES Results for Outfall 001
Water Quality, Metals, and Organics

| | | | | |
|---|-------------------------|-----------------------------|---------------------------|-------------------------|
| Chloroform (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.3 mg/L daily maximum | Annual | March 2001 | <0.005 |
| Antimony, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 1.0 mg/L daily maximum | Annual | March 2001 | <0.020 |
| Barium, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.5 mg/L daily maximum | Annual | March 2001 | 0.022 |
| Titanium, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.65 mg/L daily maximum | Semiannual | March 2001 August 2001 | 0.0066 <0.005 |
| bis (2-Ethylhexyl) phthalate (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 1.6 mg/L daily maximum | Semiannual | March 2001 August 2001 | <0.010 <0.010 |
| 4-dodecene (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.6 mg/L daily maximum | Semiannual | March 2001 August 2001 | <0.060 <0.060 |

Table G-9
2001 Annual SPDES Results for Outfall 007
Water Quality

| Chloroform (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
|------------------------------|----------------------------|-----------------------------|------------------------|-------------------------|
| | 0.20 mg/L daily maximum | Annual | * | * |

Table G-10
2001 Annual SPDES Results for Outfall 008
Water Quality

| | | | | |
|-----------------------------------|-----------------------------|-----------------------------|------------------------|-------------------------|
| Arsenic, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.17 mg/L daily maximum | Annual | * | * |
| Chromium, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.13 mg/L daily maximum | Annual | * | * |
| Silver, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.008 mg/L daily maximum | Annual | * | * |
| Zinc, Total (mg/L) | Action Level | Monitoring Frequency | Collection Date | Maximum Measured |
| | 0.100 mg/L daily maximum | Annual | * | * |

* Annual collection data not available; discharge terminated.

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