15 April 1993

Regional Water Quality Control
Board - Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Attention: Technical Support Unit
Compliance File No. 6027

Subject: February 1993 Monitoring Report Submittal

Reference: NPDES Permit No. CA0001309

Gentlemen:

Pursuant to the referenced permit, Rockwell International Corporation Rocketdyne Division (Rocketdyne) hereby submits the enclosed discharge monitoring report for the month of February, 1993. The enclosed report summarizes analytical data collected during the discharge of surface water and storm water runoff from the Santa Susana Field Lab (SSFL) through Outfalls 001, 002, 003, 004, 005, 006, and 007 as authorized by NPDES Permit No. CA0001309. This report also includes a summary of sewage treatment plant monitoring activity and rainfall measurement data.

During the month of February a total of nine rainfall events occurred which resulted in 11.93 inches of rain being measured at the SSFL rain gauge station. This unusual amount of precipitation resulted in three sampling events at the five northwest slope outfalls (003-007) and two sampling events for discharges from the SSFL water reclamation system through outfalls 001 and 002.

Analytical data for February discharge events indicate several "exceedances" of water quality objectives for the protection of aquatic life similar to those which occurred in January. In addition, the unusual amount of precipitation impacted sewage treatment plant operations, resulting in periodic instances of effluents exceeding permit requirements. Attachment 1 includes a discussion of these events and provides follow up information to issues raised in the January report. Also, as requested by Mr. King Yu, of Board staff, hardness calculations for determining effluent limits based on aquatic life criteria are included as Attachment 2. Attachment 3 provides a summary of rainfall data, while Attachment 4 is the required summary of monitoring data.

If there are any questions regarding this report or its enclosures, you may contact Mr. Steven R. Ovendale, at (818) 586-5945.
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, 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 a fine and imprisonment for knowing violations.

Executed on the 15th day of April, 1993 at Canoga Park.

Very truly yours,

ROCKWELL INTERNATIONAL CORPORATION
Rocketdyne Division

M.C. Shoemaker, Director
Environmental Protection

Attachments as noted
ISSUE - Water Quality Objectives for Protection of Aquatic Life

Analytical results for the month of February indicate several instances of alleged exceedances of permit limits established from water quality objectives based on the protection of aquatic life. Specifically, exceedances of instantaneous maximum and daily average limits for copper, zinc and lead occurred during the discharge of stormwater runoff through Outfalls 001 and 002. It should be noted that these aquatic life criteria are typically ten times lower than drinking water standards, or water quality objectives established for the protection of human health. There were no discharges which exceeded the thirty day average limits based on criteria for the protection of human health.

It is Rocketdyne's position that the RWQCB required application of total recoverable test methods for determination of compliance with heavy metals aquatic life criteria is overly restrictive and does not provide an accurate representation of the water quality discharged from the SSFL site. This position is supported by guidance material published by the EPA on implementation of water quality objectives. In requiring the total recoverable method, versus dissolved concentrations of metals which are not readily available as toxic compounds are being measured. Due to the significant amount of rainfall and subsequent runoff, large amounts of sediment and organic material are present in the stormwater discharge. This material itself contains concentrations of naturally occurring metals which are the main contributors to the "exceedances" of permit limits. Due to these circumstances and as required by permit conditions, Rocketdyne has initiated a daily sampling of ponds and available runoff for the metals in question. Preliminary data which includes both total and dissolved metals indicates "exceedances" only occur when measuring total metals in the presence of significant sediment and organic material. Rocketdyne will present this data and additional information in next month's report.

ISSUE - Sewage Treatment Plant Operations

As occurred in January, significant rainfall impacted sewage treatment plant operations and contributed to periodic instances of noncompliance with permit requirements. At STP 3, noncompliance with turbidity standards occurred due to infiltration and intrusion into a deteriorated sewer line. Rocketdyne has just completed the design for installation of 1500 feet of new sewer line to replace damaged lines. This project is expected to go out for competitive bid next month, with construction scheduled for July 1993.

Turbidity standards were also exceeded at the STP 1 due to the impact of heavy rainfall. In addition, Rocketdyne has identified malfunctioning filter backwash controls as contributing to the noncompliance. Due to the faulty controls, filters must be backwashed manually, rather than automatically as designed. This condition causes upset of the filter media bed, thus lowering filtration efficiency. Rocketdyne has obtained funding for this project which is currently in the design stage. Additional information regarding the status of this project will be included in next months report.

In addition, both the previously submitted January report and this February report indicate exceedances of disinfection requirements concerning total coliform in STP.
ATTACHMENT 1 (cont’d)

effluent. Daily testing for free and total chlorine indicated adequate chlorination for
disinfection purposes, however, laboratory results continually indicated the presence of
both total and fecal coliform. In late February, Rocketdyne entered into discussions with
the sub-contracted microbiology lab conducting the coliform analysis in an attempt to
identify the problem. It was learned that the laboratory was using test methods and
sample volumes designed for drinking water samples and not those designed for sewage
treatment plant effluent (see attached letter). The inappropriate test methods were
yielding false results. As a result of this finding, the test method was changed.
Subsequent monitoring data indicates consistent compliance with the required
disinfection standard has been achieved.

ISSUE - Northwest Slope Radioactivity Monitoring

In the January monitoring report, Rocketdyne reported a laboratory result which
indicated an questionably high value for Sr-90 at Outfall 004 (SRE). Rocketdyne
attributed this result to laboratory error/contamination. This position is further supported
by the results of the three stormwater monitoring events conducted during the month of
February which indicate essentially non-detectable levels of Sr-90, well below discharge
standards. In addition, soil, water, and sediment samples taken from the surrounding area
all indicated non-detectable levels of Sr-90. It is Rocketdyne’s final position that the
abnormally high result reported in January was not representative of stormwater quality
discharged through Outfall 004 and should be discounted.

Please note that the results of Tritium analyses for the 2/18 and 2/26 sampling events
were not available at the time of submitting this report. This is due to a tremendous
backlog of stormwater samples at CEP analytical laboratory. Results will be submitted
immediately upon receipt.
April 14, 1993

ACM Environmental Services, Inc.
Attn: Tom Brown
P.O. Box 3049
Costa Mesa, CA 92628

Dear Mr. Brown,

Per your telephone conversation with our Microbiologist, Marina Mackin, regarding the testing methods for Rockwell’s water samples, the volume was changed from fifty milliliters to one hundred milliliters.

After our discussions with Rockwell, we were notified the water was from their sewage treatment plant and was not a drinking water sample. Our microbiologist recommended a serial dilution coliform test (using 15-tubes) based on the above information.

We are sorry for any inconvenience this may have caused your company. Please feel free to contact us, if you have any questions.

Sincerely,

ASSOCIATED LABORATORIES, by

Tito L. Paredes
President

TLP/mrn
ATTACHMENT 2
HARDNESS CALCULATIONS

To determine water quality objectives based on the hardness (CaCO3) of the discharge, Standard Methods (16th ed.) No. 314 A. "Hardness by Calculation" is used. For each discharge, calcium and magnesium concentration are measured and converted to hardness equivalent CaCO3/L.

Hardness Calculations:

2/8/93 Discharge -

<table>
<thead>
<tr>
<th>Outfall 001</th>
<th>Outfall 002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca = 18.9 mg/l</td>
<td>Ca = 24.7 mg/l</td>
</tr>
<tr>
<td>Mg = 8.0 mg/l</td>
<td>Mg = 7.7 mg/l</td>
</tr>
</tbody>
</table>

Hardness, mg equivalent CaCO3/L = 2.497 [Ca, mg/l] + 4.118 [Mg, mg/l]

Hardness (001) = 2.479(18.9) + 4.118(8) = 80.137
Hardness (002) = 2.479(24.7) + 4.118(7.7) = 93.38

2/18/93 Discharge -

<table>
<thead>
<tr>
<th>Outfall 001</th>
<th>Outfall 002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca = 18.4 mg/l</td>
<td>Ca = 32.5 mg/l</td>
</tr>
<tr>
<td>Mg = 6.1 mg/l</td>
<td>Mg = 9.6 mg/l</td>
</tr>
</tbody>
</table>

Hardness, mg equivalent CaCO3/L = 2.497 [Ca, mg/l] + 4.118 [Mg, mg/l]

Hardness (001) = 2.479(18.4) + 4.118(6.1) = 71
Hardness (002) = 2.479(24.7) + 4.118(7.7) = 102.7
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Temp</th>
<th>Precipitation</th>
<th>HS</th>
<th>GS</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/93</td>
<td>9:30</td>
<td>59.5</td>
<td>0.4</td>
<td>2</td>
<td>3</td>
<td>Normal</td>
</tr>
<tr>
<td>11/93</td>
<td>10:30</td>
<td>59.5</td>
<td>0.4</td>
<td>2</td>
<td>3</td>
<td>Normal</td>
</tr>
<tr>
<td>11/93</td>
<td>11:30</td>
<td>59.5</td>
<td>0.4</td>
<td>2</td>
<td>3</td>
<td>Normal</td>
</tr>
</tbody>
</table>

**REMARKS**

- Normal conditions prevail.
- No significant precipitation reported.
- Water levels remain stable.

**CHECK BAR**

- Bar levels indicate stable water conditions.

**CONDITION OF RIVER AT CASE**

- No changes in river conditions observed.

**AVG. DEG. DAYS**

- Heating Degree Days: 486
- Cooling Degree Days: 0
### DISCHARGE LOCATION

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>8-Feb</th>
<th>18-Feb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RAINFALL</strong></td>
<td>INCHES</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL VOLUME DISCHARGED</strong></td>
<td>MGD</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PH</strong></td>
<td></td>
<td>8.0 to 9.0</td>
<td>8.0 to 9.0</td>
</tr>
<tr>
<td><strong>TEMPERATURE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TURBIDITY</strong></td>
<td>mg/l</td>
<td>75 / 15 / 240</td>
<td>75 / 15 / 240</td>
</tr>
<tr>
<td><strong>TOTAL SUSPENDED SOLIDS</strong></td>
<td>mg/l</td>
<td>0.3 / 0.1 / 0.3</td>
<td>0.3 / 0.1 / 0.3</td>
</tr>
<tr>
<td><strong>TOTAL DISSOLVED SOLIDS</strong></td>
<td>ug/l</td>
<td>950 / - / -</td>
<td>950 / - / -</td>
</tr>
<tr>
<td><strong>TOTAL ORGANIC CARBON</strong></td>
<td>umg/mg</td>
<td>Not Stated / 189</td>
<td>Not Stated / 189</td>
</tr>
<tr>
<td><strong>CONDUCTIVITY @ 25 C</strong></td>
<td>umhos/cm</td>
<td>Not Stated / -</td>
<td>Not Stated / -</td>
</tr>
<tr>
<td><strong>BOD 5-DAY @ 20 C</strong></td>
<td>mg/l</td>
<td>15 / - / 16.7</td>
<td>15 / - / 16.7</td>
</tr>
<tr>
<td><strong>OIL AND GREASE</strong></td>
<td>mg/l</td>
<td>150 / - / 16.7</td>
<td>150 / - / 16.7</td>
</tr>
<tr>
<td><strong>CHLORIDE</strong></td>
<td>mg/l</td>
<td>0.1 / - / 0.2</td>
<td>0.1 / - / 0.2</td>
</tr>
<tr>
<td><strong>FLUORIDE</strong></td>
<td>mg/l</td>
<td>8.0 / - / 0.2</td>
<td>8.0 / - / 0.2</td>
</tr>
<tr>
<td><strong>NITRATE AND NITRITE AS NITROGEN</strong></td>
<td>mg/l</td>
<td>300 / - / 46</td>
<td>300 / - / 46</td>
</tr>
<tr>
<td><strong>SULFATE</strong></td>
<td>mg/l</td>
<td>50 / - / -</td>
<td>50 / - / -</td>
</tr>
<tr>
<td><strong>SURFACTANTS (AS MBA)</strong></td>
<td>mg/l</td>
<td>0.1 / - / 0.1</td>
<td>0.1 / - / 0.1</td>
</tr>
<tr>
<td><strong>RESIDUAL CHLORINE</strong></td>
<td>ug/l</td>
<td>1000 / - / 87</td>
<td>1000 / - / 87</td>
</tr>
<tr>
<td><strong>BARIUM</strong></td>
<td>ug/l</td>
<td>1.0 / - / 1.0</td>
<td>1.0 / - / 1.0</td>
</tr>
<tr>
<td><strong>IODIN</strong></td>
<td>ug/l</td>
<td>0.1 / - / -</td>
<td>0.1 / - / -</td>
</tr>
<tr>
<td><strong>RADIOACTIVITY</strong></td>
<td>Bq/l</td>
<td>15 / - / -</td>
<td>15 / - / -</td>
</tr>
<tr>
<td><strong>GROSS ALPHA</strong></td>
<td>Bq/l</td>
<td>50 / - / -</td>
<td>50 / - / -</td>
</tr>
<tr>
<td><strong>GROSS BETA</strong></td>
<td>Bq/l</td>
<td>&lt;0.6 / - / -</td>
<td>&lt;0.6 / - / -</td>
</tr>
<tr>
<td><strong>Total Combined Radon-226 &amp; Radon 228</strong></td>
<td>Bq/l</td>
<td>20000 / - / -</td>
<td>20000 / - / -</td>
</tr>
<tr>
<td><strong>TRITIUM</strong></td>
<td>Bq/l</td>
<td>8 / - / -</td>
<td>8 / - / -</td>
</tr>
<tr>
<td><strong>STIPHTIUM-90</strong></td>
<td>Bq/l</td>
<td>1.8 / - / -</td>
<td>1.8 / - / -</td>
</tr>
</tbody>
</table>

### METALS (Water Quality Objective Based on Hardness (CaCo3) Calculations)

<table>
<thead>
<tr>
<th>METAL</th>
<th>ug/l</th>
<th>NC / NC / 10</th>
<th>ND</th>
<th>NC / NC / 10</th>
<th>ND</th>
<th>NC / NC / 10</th>
<th>ND</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CADMIUM</strong></td>
<td></td>
<td>15 / 15 / 50</td>
<td>0.1</td>
<td>15 / 15 / 50</td>
<td>0.1</td>
<td>15 / 15 / 50</td>
<td>0.1</td>
</tr>
<tr>
<td><strong>CHROMIUM</strong></td>
<td></td>
<td>14.6 / 14.6 / 1000</td>
<td>11</td>
<td>12.8 / 12.8 / 1000</td>
<td>7.0</td>
<td>12.8 / 12.8 / 1000</td>
<td>7.0</td>
</tr>
<tr>
<td><strong>COPPER</strong></td>
<td></td>
<td>81.8 / 81.8 / 50</td>
<td>7.0</td>
<td>Y N N</td>
<td>Y N N</td>
<td>Y N N</td>
<td>Y N N</td>
</tr>
<tr>
<td><strong>LEAD</strong></td>
<td></td>
<td>2400 / NC / 12</td>
<td>ND</td>
<td>N N NC / NC / 50</td>
<td>ND</td>
<td>N N NC / NC / 50</td>
<td>ND</td>
</tr>
<tr>
<td><strong>MERCURY</strong></td>
<td></td>
<td>NC / NC / 800</td>
<td>ND</td>
<td>N N N</td>
<td>N N N</td>
<td>N N N</td>
<td>N N N</td>
</tr>
<tr>
<td><strong>NICKEL</strong></td>
<td></td>
<td>20 / 20 / 40</td>
<td>ND</td>
<td>NC / NC / 50</td>
<td>ND</td>
<td>NC / NC / 50</td>
<td>ND</td>
</tr>
<tr>
<td><strong>SELENIUM</strong></td>
<td></td>
<td>100 / 100 / 500</td>
<td>ND</td>
<td>100 / 100 / 500</td>
<td>ND</td>
<td>100 / 100 / 500</td>
<td>ND</td>
</tr>
<tr>
<td><strong>SILVER</strong></td>
<td></td>
<td>97 / 97 / 5000</td>
<td>66</td>
<td>97 / 97 / 5000</td>
<td>66</td>
<td>97 / 97 / 5000</td>
<td>66</td>
</tr>
<tr>
<td><strong>ZINC</strong></td>
<td></td>
<td>20 / 20 / 5000</td>
<td>50</td>
<td>20 / 20 / 5000</td>
<td>50</td>
<td>20 / 20 / 5000</td>
<td>50</td>
</tr>
</tbody>
</table>

*ND = NOT DETECTED
*NC = NOT CALCULATED
*The effluent limitations for Total Suspended Solids and Settleable Solids are not applicable for discharges during rainfall events
*Chrome result expressed as total chrome.
## DISCHARGE LOCATION

<table>
<thead>
<tr>
<th>OUTFALL 001: PERIMETER POND</th>
<th>DATE</th>
<th>OUTFALL NUMBER</th>
<th>LOCATION</th>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8-Feb</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>19-Feb</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

### PESTICIDES

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALDRIN</td>
<td>µg/l</td>
<td>100 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>100 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>CHLORDANE (Based on the CA inland waters plan)</td>
<td>ng/l</td>
<td>0.05 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>0.05 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>DDT (Based on the CA inland waters plan)</td>
<td>ng/l</td>
<td>0.14 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>0.14 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>DIELDRIN</td>
<td>ng/l</td>
<td>56 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>56 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>ENDOSULFAN (Based on the CA Inland Surface waters plan)</td>
<td>ng/l</td>
<td>2.3 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>2.3 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>ENDREN</td>
<td>µg/l</td>
<td>- / 3000 / 180</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>70 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>HEPTACHLOR</td>
<td>µg/l</td>
<td>20 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>20 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>METHYCHLOR</td>
<td>µg/l</td>
<td>0.1 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>0.1 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>2,4-D</td>
<td>µg/l</td>
<td>10 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>10 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
<tr>
<td>2,4,5-TS-SILVEX</td>
<td>µg/l</td>
<td>670 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
<td>670 / -</td>
<td>ND</td>
<td>N</td>
<td>-</td>
</tr>
</tbody>
</table>

### VOLATILE ORGANICS

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICHROMETHANE</td>
<td>µg/l</td>
<td>- / 42</td>
<td>ND</td>
<td>-</td>
<td>-</td>
<td>42 / -</td>
<td>ND</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### SEMI-VOLATILES

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>EFFLUENT LIMITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUORANTHENE</td>
<td>µg/l</td>
<td>- / -</td>
<td>ND</td>
<td>-</td>
<td>-</td>
<td>42 / -</td>
<td>ND</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**NOT DETECTED**

**NOT CALCULATED**

- The effluent limitations for Total Suspended Solids and Settleable Solids are not applicable for discharges during rainfall events.
- Chrome result expressed as total chrome.

---

**ND = NOT DETECTED**

**NC = NOT CALCULATED**

---

* Chrome result expressed as total chrome.
<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>C</th>
<th>B</th>
<th>A</th>
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- ND = NOT DETECTED
- NC = NOT CALCULATED
- The effluent limitations for Total Suspended Solids and Settleable Solids are not applicable for discharges during rainfall events.
- Chrome result expressed as total chrome.
## Discharge Location

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<tr>
<th>OUTFALL LOCATION</th>
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<th>OUTFALL NUMBER</th>
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### Constituent

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<td><strong>Total Volume Discharged</strong></td>
<td>MGD</td>
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<td><strong>PH Units</strong></td>
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<td><strong>Temperature</strong></td>
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<td><strong>Turbidity</strong></td>
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<tr>
<td><strong>Settleable Solids</strong></td>
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<td><strong>Total Dissolved Solids</strong></td>
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<td><strong>Total Organic Carbon</strong></td>
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<td>NTE &gt; 100</td>
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<tr>
<td><strong>Silver</strong></td>
<td>ug/l</td>
<td>1.0 / - 1</td>
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<td><strong>Fluoride</strong></td>
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<td><strong>Fluoride</strong></td>
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<td>0.1 / - 0.1</td>
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<td><strong>Boron</strong></td>
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### Radioactivity

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<td><strong>Gross Beta</strong></td>
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<td><strong>Total Combined Radium-226 &amp; Radium 228</strong></td>
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<td>&lt;500 / - 1</td>
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### Metals

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### Notes

- ND = NOT DETECTED
- NC = NOT CALCULATED
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- Chrome result expressed as total chromate.
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- ND = NOT DETECTED
- NC = NOT CALCULATED
- The effluent limitations for Total Suspended Solids and Settleable Solids are not applicable for discharges during rainfall events
- Chrome result expressed as total chrome.
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<td>- / - / 2.7</td>
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<tr>
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<td>- / - / 660</td>
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<td>ALFA</td>
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<td>- / - / 3.9</td>
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<td>N</td>
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<td>22 / - / -</td>
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*Chrome result expressed as total chrome.
## Discharge Locations - Northwest Slope Area

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<td>6-Feb</td>
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### Constituents

#### Conventional Pollutants

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<tr>
<td>Discharge Flow</td>
<td>Gallons/day</td>
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<td>Temperature</td>
<td>Degrees Farenheit</td>
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<tr>
<td>Boron</td>
<td>mg/l</td>
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<tr>
<td>Chloride</td>
<td>mg/l</td>
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<tr>
<td>Fluoride</td>
<td>mg/l</td>
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</tr>
<tr>
<td>Nitrate &amp; Nitrite</td>
<td>mg/l</td>
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</tr>
<tr>
<td>Oil &amp; Grease</td>
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<tr>
<td>pH</td>
<td>unitless</td>
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<tr>
<td>Residual Chlorine</td>
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<tr>
<td>Sulfate</td>
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<tr>
<td>Total Dissolved Solids</td>
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#### Radioactive - Compounds

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<tr>
<td>Gross Beta</td>
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<tr>
<td>Tritium</td>
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<tr>
<td>Combined Total Radium-226 &amp; Radium 228</td>
<td>pCi/l</td>
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<tr>
<td>Strontium-89</td>
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#### Toxicity - Fish Bio-Assays

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<th>Acute Fish Bio-Assay</th>
<th>% Survival</th>
<th>70%</th>
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<th>0%</th>
<th>100%</th>
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<td>NOT ANALYZED</td>
<td>NOT ANALYZED</td>
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</table>

#### Chronic Fish Bio-Assays (Analysis performed quarterly)

<table>
<thead>
<tr>
<th>Chronic Ceriodaphnia Survival</th>
<th>TUC</th>
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<tbody>
<tr>
<td>Chronic Ceriodaphnia Reproduction</td>
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<tr>
<td>Chronic Selenastrum Algae Growth Bioassay</td>
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<td>Chronic Fathead Larve Survival</td>
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</tr>
<tr>
<td>Chronic Fathead Larve Growth</td>
<td>TUC</td>
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</table>

**Notes:**

- Discharge event is greater than 0.1 inch of rainfall. No more than one sample per week need be obtained.
- Discharge flow for each outfall shall be measured for the area drained by each outfall.
### CONVENTIONAL POLLUTANTS

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<th>CONSTITUENT</th>
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<tr>
<td><strong>RAINFALL</strong></td>
<td>INCHES</td>
<td></td>
</tr>
<tr>
<td>Discharge event Is greater than 0.1 Inch of Rainfall (g)</td>
<td>3.70</td>
<td>7.49</td>
</tr>
<tr>
<td>Discharge flow for each outfall shall be measured for the area drained by each outfall.</td>
<td>197,950</td>
<td>400,715</td>
</tr>
<tr>
<td><strong>TEMPERATURE</strong></td>
<td>DEGREES FAHRENHEIT</td>
<td>100</td>
</tr>
<tr>
<td><strong>BORON</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>CHLORIDE</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>FLUORIDE</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>NITRATE &amp; NITRITE AS N</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>OIL &amp; GREASE</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>unitless</td>
<td>6.0 TO 9.0</td>
</tr>
<tr>
<td><strong>RESIDUAL CHLORINE</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>SULFATE</strong></td>
<td>mg/l</td>
<td>ND</td>
</tr>
<tr>
<td><strong>TOTAL DISSOLVED SOLIDS</strong></td>
<td>mg/l</td>
<td>850</td>
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</table>

### RADIOACTIVE - COMPOUNDS

<table>
<thead>
<tr>
<th>COMPOUND</th>
<th>pCi/l</th>
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<td>&lt;2</td>
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<tr>
<td><strong>GROSS BETA</strong></td>
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<td>&lt;500</td>
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<tr>
<td>Combined Total Radium-226 &amp; Radium-228</td>
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<td>&lt;0.6 &lt;1</td>
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<tr>
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<td>pCi/l</td>
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### TOXICITY - FISH BIO-ASSAYS

<table>
<thead>
<tr>
<th>ASSAY</th>
<th>% SURVIVAL</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACUTE FISH BIO-ASSAY</strong></td>
<td>% SURVIVAL</td>
<td>70%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td><strong>CHRONIC FISH BIO-ASSAY</strong></td>
<td></td>
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<td>NOT ANALYZED</td>
<td>NOT ANALYZED</td>
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<tr>
<td><strong>CHRONIC CERIODAPHNIA SURVIVAL</strong></td>
<td>Tuc</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHRONIC CERIODAPHNIA REPRODUCTION</strong></td>
<td>Tuc</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHRONIC SELENASTRUM ALGAE GROWTH BIOASSAY</strong></td>
<td>Tuc</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHRONIC FATHEAD LARVE SURVIVAL</strong></td>
<td>Tuc</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CHRONIC FATHEAD LARVE GROWTH</strong></td>
<td>Tuc</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

*a = Discharge event is greater than 0.1 inch of rainfall. No more than one sample per week need be obtained.*

*b = Discharge flow for each outfall shall be measured for the area drained by each outfall.*
### CONVENTIONAL POLLUTANTS

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Units</th>
<th>Effluent Limits</th>
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<tbody>
<tr>
<td>RAINFALL</td>
<td>inches</td>
<td>0.1 inch of rainfall event</td>
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<td>TEMPERATURE</td>
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<td>100</td>
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<tr>
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<td>mg/l</td>
<td>1.0</td>
</tr>
<tr>
<td>CHLORIDE</td>
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<td>150</td>
</tr>
<tr>
<td>FLUORIDE</td>
<td>mg/l</td>
<td>1.0</td>
</tr>
<tr>
<td>NITRATE &amp; NITRITE AS N</td>
<td>mg/l</td>
<td>0.015</td>
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<tr>
<td>OIL &amp; GREASE</td>
<td>mg/l</td>
<td>15</td>
</tr>
<tr>
<td>pH</td>
<td>unitless</td>
<td>6.0 to 9.0</td>
</tr>
<tr>
<td>RESIDUAL CHLORINE</td>
<td>mg/l</td>
<td>0.1</td>
</tr>
<tr>
<td>SULFATE</td>
<td>mg/l</td>
<td>300</td>
</tr>
<tr>
<td>TOTAL DISSOLVED SOLIDS</td>
<td>mg/l</td>
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### RADIOACTIVE - COMPOUNDS

<table>
<thead>
<tr>
<th>Constituent</th>
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<tbody>
<tr>
<td>GROSS ALPHA</td>
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<tr>
<td>TRITIUM</td>
<td>20,000</td>
</tr>
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<td>COMBINED TOTAL RADIUS 226 &amp; RADIUS 228</td>
<td>5</td>
</tr>
<tr>
<td>STRONTIUM-90</td>
<td>8</td>
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### TOXICITY - FISH BIO-ASSAYS

<table>
<thead>
<tr>
<th>Test</th>
<th>% SURVIVAL</th>
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<tbody>
<tr>
<td>ACUTE FISH BIO-ASSAY</td>
<td>70%</td>
</tr>
<tr>
<td>CHRONIC FISH BIO-ASSAY</td>
<td>NOT ANALYZED</td>
</tr>
<tr>
<td>CHRONIC CERIODAPHE SURVIVAL</td>
<td>Tuc 1.0</td>
</tr>
<tr>
<td>CHRONIC CERIODAPHE REPRODUCTION</td>
<td>Tuc 1.0</td>
</tr>
<tr>
<td>CHRONIC SLENASTRUM ALGAE GROWTH BIOASSAY</td>
<td>Tuc 1.0</td>
</tr>
<tr>
<td>CHRONIC FATHEAD LARVE SURVIVAL</td>
<td>Tuc 1.0</td>
</tr>
<tr>
<td>CHRONIC FATHEAD LARVE GROWTH</td>
<td>Tuc 1.0</td>
</tr>
</tbody>
</table>

### Notes

- Discharge event is greater than 0.1 inch of rainfall. No more than one sample per week need be obtained.
- Discharge flow for each outfall shall be measured for the area drained by each outfall.
### CONVENTIONAL POLLUTANTS

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>EFFLUENT LIMITS</th>
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</thead>
<tbody>
<tr>
<td>RAINFALL</td>
<td>INCHES</td>
<td>3.7 7.49 0.74</td>
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<td>DISCHARGE FLOW</td>
<td>GAL/DAY</td>
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<td>TEMPERATURE</td>
<td>DEGREES FAHRENHEIT</td>
<td>100 59 55 54</td>
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<tr>
<td>BORON</td>
<td>mg/l</td>
<td>ND ND ND</td>
</tr>
<tr>
<td>CHLORIDE</td>
<td>mg/l</td>
<td>150 2.70 5.9 3.8</td>
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<tr>
<td>FLUORIDE</td>
<td>mg/l</td>
<td>1.0 0.2 0.2 0.2</td>
</tr>
<tr>
<td>NITRATE &amp; NITRITE AS N</td>
<td>mg/l</td>
<td>10 0.11 0.68 0.31</td>
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<tr>
<td>OIL &amp; GREASE</td>
<td>mg/l</td>
<td>15 4.7 2.4 1.3</td>
</tr>
<tr>
<td>PH</td>
<td>unitless</td>
<td>6.0 TO 9.0</td>
</tr>
<tr>
<td>RESIDUAL CHLORINE</td>
<td>mg/l</td>
<td>0.1 ND ND ND</td>
</tr>
<tr>
<td>SULFATE</td>
<td>mg/l</td>
<td>300 44 129 100</td>
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<tr>
<td>TOTAL DISSOLVED SOLIDS</td>
<td>mg/l</td>
<td>850 166 432 230</td>
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### RADIOACTIVE - COMPOUNDS

<table>
<thead>
<tr>
<th>RADIOACTIVE COMPOUNDS</th>
<th>pCi/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>GROSS ALPHA</td>
<td>15</td>
</tr>
<tr>
<td>GROSS BETA</td>
<td>50</td>
</tr>
<tr>
<td>TRITIUM</td>
<td>20,000</td>
</tr>
<tr>
<td>COMBINED TOTAL RADIIUM-226 &amp; RADIIUM-228</td>
<td>5 &lt;0.8 &amp; &lt;1 &lt;0.8 &amp; &lt;1 &lt;0.8 &amp; &lt;1</td>
</tr>
<tr>
<td>STRONTIUM 90</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>&lt;0.5  &lt;0.5 &lt;0.5  &lt;0.5</td>
</tr>
</tbody>
</table>

### TOXICITY - FISH BIO-ASSAYS

**ACUTE FISH BIO-ASSAY**

- % SURVIVAL: 70%, 100%, 100%, 100%
- CHRONIC FISH BIO-ASSAY (Analysis performed quarterly)
  - NOT ANALYZED, NOT ANALYZED, NOT ANALYZED
- CHRONIC CERIODAPHNIA SURVIVAL
  - T[μg] 1.0
- CHRONIC CERIODAPHNIA REPRODUCTION
  - T[μg] 1.0
- CHRONIC SELENA STRUM ALGAE GROWTH BIOASSAY
  - T[μg] 1.0
- CHRONIC FATHEAD LARVE SURVIVAL
  - T[μg] 1.0
- CHRONIC FATHEAD LARVE GROWTH
  - T[μg] 1.0

---

a = Discharge event is greater than 0.1 inch of rainfall. No more than one sample per week need be obtained.
b = Discharge flow for each outfall shall be measured for the area drained by each outfall.
## CONVENTIONAL POLLUTANTS

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>UNITS</th>
<th>EFFLUENT LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAINFALL</td>
<td>INCHES</td>
<td>&gt; 0.1 INCH OF RAINFALL</td>
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<tr>
<td>DISCHARGE FLOW</td>
<td>GAL/DAY</td>
<td>ESTIMATED</td>
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<td>TEMPERATURE</td>
<td>DEGREES FAHRENHEIT</td>
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<td>BORON</td>
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<tr>
<td>CHLORIDE</td>
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<td>150</td>
</tr>
<tr>
<td>FLUORIDE</td>
<td>mg/l</td>
<td>1.0</td>
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<tr>
<td>NITRATE &amp; NITRITE AS N</td>
<td>mg/l</td>
<td>15</td>
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<tr>
<td>OIL &amp; GREASE</td>
<td>mg/l</td>
<td>6.0 TO 9.0</td>
</tr>
<tr>
<td>pH</td>
<td>unitless</td>
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</tr>
<tr>
<td>RESIDUAL CHLORINE</td>
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<td>0.1</td>
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<tr>
<td>SULFATE</td>
<td>mg/l</td>
<td>300</td>
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<tr>
<td>TOTAL DISSOLVED SOLIDS</td>
<td>mg/l</td>
<td>850</td>
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## RADIOACTIVE - COMPOUNDS

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>Ci/l</th>
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</thead>
<tbody>
<tr>
<td>GROSS ALPHA</td>
<td>15</td>
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<tr>
<td>GROSS BETA</td>
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</tr>
<tr>
<td>TRITIUM</td>
<td>20,000</td>
</tr>
<tr>
<td>COMBINED TOTAL RADIUM 226 &amp; RADIUM 228</td>
<td>&lt;0.8 &amp; &lt;1</td>
</tr>
<tr>
<td>STRONTIUM-90</td>
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## RADIOACTIVE - COMPOUNDS

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<td>GROSS BETA</td>
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<td>TRITIUM</td>
<td>20,000</td>
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<tr>
<td>COMBINED TOTAL RADIUM 226 &amp; RADIUM 228</td>
<td>&lt;0.8 &amp; &lt;1</td>
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<tr>
<td>STRONTIUM-90</td>
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## TOXICITY - FISH BIO-ASSAYS

<table>
<thead>
<tr>
<th>CONSTITUENT</th>
<th>% SURVIVAL</th>
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<tbody>
<tr>
<td>ACUTE FISH BIO-ASSAY</td>
<td>70%</td>
</tr>
<tr>
<td>CHRONIC FISH BIO-ASSAY (Analysis performed quarterly)</td>
<td>100%</td>
</tr>
<tr>
<td>CHRONIC CERIODAPHNIA SURVIVAL</td>
<td>TUC 1.0</td>
</tr>
<tr>
<td>CHRONIC CERIODAPHNIA REPRODUCTION</td>
<td>TUC 1.0</td>
</tr>
<tr>
<td>CHRONIC Seleniastrum Algae Growth Bioassay</td>
<td>TUC 1.0</td>
</tr>
<tr>
<td>CHRONIC FATHEAD LARVE SURVIVAL</td>
<td>TUC 1.0</td>
</tr>
<tr>
<td>CHRONIC FATHEAD LARVE GROWTH</td>
<td>TUC 1.0</td>
</tr>
</tbody>
</table>

---

- a = Discharge event is greater than 0.1 inch of rainfall. No more than one sample per week need be obtained.
- b = Discharge flow for each outfall shall be measured for the area drained by each outfall.
| SAMPLE EVENT | DATE (Weekly) | pH (WEEKLY) | OIL & GREASE (WEEKLY) | TOTAL COLIFORM MPN/100ML | TURBIDITY NTU | SUSPENDED HOURS > 5.0 | SOLIDS | BIOCHEMICAL INFLUENT mg/L | EFFLUENT % REMOVAL m g/L | OXYGEN DEMAND |%
<table>
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<tbody>
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<td>99.9</td>
<td>394</td>
<td>7.5</td>
</tr>
<tr>
<td>2</td>
<td>2/2/93</td>
<td>6.4</td>
<td>ND</td>
<td>&lt;2.2</td>
<td>2.4</td>
<td>0.0</td>
<td>3400</td>
<td>5.0</td>
<td>99.9</td>
<td>394</td>
<td>7.5</td>
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<tr>
<td>3</td>
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<td>ND</td>
<td>&lt;2.2</td>
<td>2.8</td>
<td>0.0</td>
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<td>99.9</td>
<td>394</td>
<td>7.5</td>
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<tr>
<td>4</td>
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<td>ND</td>
<td>&lt;2.2</td>
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<td>99.9</td>
<td>394</td>
<td>7.5</td>
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<td>5</td>
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<td>99.9</td>
<td>394</td>
<td>7.5</td>
</tr>
<tr>
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<td>ND</td>
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<td>3.5</td>
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<td>3400</td>
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<td>99.9</td>
<td>394</td>
<td>7.5</td>
</tr>
<tr>
<td>7</td>
<td>2/9/93</td>
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<td>100.0</td>
<td>376</td>
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<td>100.0</td>
<td>376</td>
<td>4.0</td>
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<tr>
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<td>2/18/93</td>
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<td>ND</td>
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<td>4446</td>
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<td>100.0</td>
<td>376</td>
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<td>ND</td>
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<tr>
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**PERMIT CONDITION**

**MEDIAN** = 2.2

**AVERAGE** = 2.0

**20% AVERAGE** = 1.8 MPN/DAY

**Monthly Average**

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<th>SOLIDS</th>
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The data indicates consistent compliance with the permit conditions for the sewage treatment plant.
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**PERMIT CONDITION**
- MEDIAN = 2.2
- 2.0 AVERAGE = 121 HR/DOY
- Monthly Average = 7.4 ND <22 4.7 N/A 51 6.0 88.2 103 9 81.8