

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

MAJOR  
(SUB 01)  
F - FINAL  
EFFLUENT  
\*\*\* NO DISCHARGE

Form Approved.  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS(Include Facility name/Location if different)

NAME: JUNEAU, CITY AND BOROUGH OF  
ADDRESS: JUNEAU, ALASKA 99801  
100 SOUTH SEWARD,  
JUNEAU, ALASKA 99801  
FACILITY: JUNEAU-DOUGLAS TREATMENT PLANT  
LOCATION: JUNEAU, ALASKA 99801  
ATT: Scott Jeffers WW Utilities Superintendent

AK-002321-3  
PERMIT NUMBER

001 A  
DISCHARGE NUMBER

| FROM |    | MONITORING PERIOD |      |    | TO  |  |  |
|------|----|-------------------|------|----|-----|--|--|
| YR   | MO | DAY               | YEAR | MO | DAY |  |  |
| 2003 | 11 | 1                 | 2003 | 11 | 30  |  |  |

| PARAMETER   | X | QUANTITY OR LOADING |         |       | QUALITY OR CONCENTRATION |                  |                   |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---------------------|---------|-------|--------------------------|------------------|-------------------|-------|--------|-----------------------|-------------|
|   |   | AVERAGE             | MAXIMUM | UNITS | MINIMUM                  | AVERAGE          | MAXIMUM           | UNITS |        |                       |             |
| TEMPERATURE, WATER<br>DEG. CENTIGRADE<br>00010 1 0 0              |   | *****               | *****   | ***** | *****                    | *****            | 18.1              | (04)  | 0      | 5/7                   |             |
| EFFLUENT GROSS VALUE<br>OXYGEN, DISSOLVED<br>(DO)<br>00300 1 0 0  |   | *****               | *****   | ***** | 4.5                      | *****            | 7.3               | (19)  | 0      | 1/7                   | GRAB        |
| EFFLUENT GROSS VALUE<br>BOD, 5-DAY<br>(20 DEG. C)<br>00310 G 0 0  |   | *****               | *****   | ***** | 2.0<br>Daily Min.        | *****            | 17.0              | (19)  | 0      | ONCE/<br>WEEK         | GRAB        |
| RAW SEW/INFLUENT<br>BOD, 5-DAY<br>(20 DEG. C)<br>00310 W 0 0      |   | *****               | *****   | ***** | *****                    | 164.5            | *****             | (19)  | 0      | 1/30                  | COMP 24     |
| SEE COMMENTS BELOW<br>BOD, 5-DAY<br>(20 DEG. C)<br>00310 W 0 0    |   | *****               | *****   | ***** | *****                    | REPORT<br>MO AVG | *****             | (19)  | 0      | ONCE/<br>MONTH        | COMP 24     |
| EFFLUENT GROSS VALUE<br>pH<br>00400 1 0 0                         |   | *****               | *****   | ***** | 29.2                     | *****            | 3.5               | (19)  | 0      | 1/30                  |             |
| EFFLUENT GROSS VALUE<br>SOLIDS, TOTAL<br>SUSPENDED<br>00530 G 0 0 |   | *****               | *****   | ***** | *****                    | 45<br>WKLY AVG   | *****             | (19)  | 0      | ONCE/<br>MONTH        | COMP 24     |
| RAW SEW/INFLUENT  |   | *****               | *****   | ***** | *****                    | 29.2             | 29.2              | (26)  | 0      | 1/30                  |             |
|   |   | *****               | *****   | ***** | *****                    | 690<br>MO AVG    | 1380<br>DAILY MAX | (19)  | 0      | ONCE/<br>MONTH        | COMP 24     |
|   |   | *****               | *****   | ***** | *****                    | *****            | *****             | (12)  | 0      | 5/7                   | GRAB        |
|   |   | *****               | *****   | ***** | 6.0<br>MIN.              | *****            | 8.5<br>MAXIMUM    | (19)  | 0      | WEEK<br>DAYS          | GRAB        |
|   |   | *****               | *****   | ***** | *****                    | 302              | *****             | (19)  | 0      | 1/30                  | COMP 24     |
|   |   | *****               | *****   | ***** | *****                    | REPORT<br>MO AVG | *****             | (19)  | 0      | ONCE/<br>MONTH        | COMP 24     |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. & 1316. (Penalties under these statutes may include fines, up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
Scott Jeffers  
Wastewater Utilities Superintendent  
TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE  
907 586-0309  
AREA CODE PHONE NUMBER

DATE  
2003 12 8  
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ALL ATTACHMENTS HERE)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

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NOTE: Read instructions before completing this form.

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NAME: JUNEAU, CITY AND BOROUGH OF  
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155 SOUTH SEWARD  
FACILITY: JUNEAU-DOUGLAS TREATMENT PLANT  
LOCATION: JUNEAU, ALASKA 99801  
ATT: Scott Jeffers WW Utilities Superintendent

AK-002321-3  
PERMIT NUMBER

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| FROM |    | MONITORING PERIOD |      |    |     |    |    | TO  |  |
|------|----|-------------------|------|----|-----|----|----|-----|--|
| YR   | MO | DAY               | YR   | MO | DAY | YR | MO | DAY |  |
| 2003 | 11 | 1                 | 2003 | 11 | 30  |    |    |     |  |

| PARAMETER  | SAMPLE MEASUREMENT | QUANTITY OR LOADING |         |         | QUALITY OR CONCENTRATION |         |         |         | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|--|--------------------|---------------------|---------|---------|--------------------------|---------|---------|---------|--------|-----------------------|-------------|
|  |                    | AVERAGE             | MAXIMUM | UNITS   | MINIMUM                  | AVERAGE | MAXIMUM | UNITS   |        |                       |             |
| SOLIDS, TOTAL SUSPENDED<br>00530 W 0 0<br>SEE COMMENTS BELOW                       | PERMIT REQUIREMENT | 1035                | *****   | LBS/DAY | *****                    | 45      | *****   | MG/L    | 0      | 1/30                  | COMP 24     |
| SOLIDS, TOTAL SUSPENDED<br>00530 1 0 0   | MEASUREMENT        | 137.7               | 566.3   | (26)    | *****                    | 8.9     | 20.0    | (19)    | 0      | ONCE/MONTH            |             |
| EFFLUENT GROSS VALUE<br>NITROGEN, AMMONIA TOTAL (AS N)<br>00610 1 0 0              | PERMIT REQUIREMENT | 690                 | 1380    | LBS/DAY | *****                    | 30      | 60      | MG/L    | 0      | ONCE/MONTH            | COMP 24     |
| EFFLUENT GROSS VALUE<br>COLIFORM, FECAL MF,<br>M-FC BROTH, 44.5C<br>31616 W 0 0    | MEASUREMENT        | N/A                 | N/A     | *****   | *****                    | N/A     | N/A     | (19)    | 0      | 1/180                 |             |
| EFFLUENT GROSS VALUE<br>COLIFORM, FECAL MF,<br>M-FC BROTH, 44.5C<br>31616 1 0 0    | PERMIT REQUIREMENT | REPORT              | REPORT  | *****   | *****                    | REPORT  | REPORT  | MG/L    | 0      | SEMI-ANNUAL           | COMP 24     |
| EFFLUENT GROSS VALUE<br>FLOW, IN CONDUIT OR<br>THRU TREATMENT PLANT<br>50090 1 0 0 | MEASUREMENT        | *****               | *****   | *****   | *****                    | 574     | *****   | (13)    | 0      | 1/7                   |             |
| EFFLUENT GROSS VALUE<br>BOD, 5-DAY PERCENT<br>REMOVAL<br>81010 K 0 0               | PERMIT REQUIREMENT | 2.76                | 6.0     | MGD     | *****                    | 800     | *****   | #/100ML | 0      | ONE / WEEK            | GRAB        |
| PERCENT REMOVAL  | MEASUREMENT        | *****               | *****   | *****   | *****                    | 166     | 3000    | (13)    | 1      | 1/7                   |             |
|  | PERMIT REQUIREMENT | *****               | *****   | *****   | *****                    | 400     | 1200    | MG/L    | 0      | ONE / WEEK            | GRAB        |
|  | MEASUREMENT        | 1.5121              | 3.6150  | (3)     | *****                    | *****   | *****   | #/100ML | 0      | 7/7                   | RECORDED    |
|  | PERMIT REQUIREMENT | 2.76                | 6.0     | MGD     | *****                    | *****   | *****   | *****   | 0      | CONTINUOUS            |             |
|  | MEASUREMENT        | *****               | *****   | *****   | *****                    | 98      | *****   | (23)    | 0      | 1/30                  |             |
|  | PERMIT REQUIREMENT | *****               | *****   | *****   | *****                    | 85      | *****   | PERCENT | 0      | ONCE/MONTH            | CALCTD      |

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*(Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)*

NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER  
Scott Jeffers  
Wastewater Utilities Superintendent

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: (907) 586-0309  
AREA CODE: 586-0309  
PHONE NUMBER: 586-0309

DATE: 2003 12 8  
YEAR: 2003  
MO: 12  
DAY: 8

COMMENT AND EXPLANATION OF ANY VIOLATIONS (REFERENCE ALL ATTACHMENTS HERE)





## JUNEAU-DOUGLAS WASTEWATER TREATMENT FACILITY

EPA REPORT

Juneau, Alaska

NOVEMBER 2003

| DAY     | DATE | WEATHER |                  |                | INFLUENT         |           |          |             |            |         | EFFLUENT |           |           |          |             |            |                        |
|---------|------|---------|------------------|----------------|------------------|-----------|----------|-------------|------------|---------|----------|-----------|-----------|----------|-------------|------------|------------------------|
|         |      | TEMP °F | RAIN FALL INCHES | HIGH TIDE FEET | J-D TTL EFFL MGD | S.S. mg/L | S.S. LBS | B.O.D. mg/L | B.O.D. LBS | TEMP °C | pH       | D.O. mg/L | S.S. mg/L | S.S. LBS | B.O.D. mg/L | B.O.D. LBS | FECAL Coliform /100 ml |
| SUN     | 2    |         | 0.00             | 13.7           | 0.9250           | 394       | 3040     |             |            |         |          | 4.2       | 32        |          |             |            |                        |
| MON     | 3    | 34      | 0.00             | 14.8           | 1.0330           | 402       | 3463     |             |            | 12.7    | 6.7      | 5.2       | 5.2       |          |             | 45         |                        |
| TUE     | 4    | 32      | 0.00             | 13.2           | 0.9830           | 532       | 4361     |             |            | 17.4    | 6.9      | 5.2       | 6.2       |          |             | 51         |                        |
| WED     | 5    | 32      | 0.00             | 13.9           | 0.9900           | 972       | 8025     | 238         | 1965       | 18.1    | 6.9      | 5.8       | 5.6       | 46       | 3.5         | 29.2       | 70                     |
| THU     | 6    | 33      | 0.01             | 14.5           | 0.9380           | 442       | 3458     |             |            | 13.0    | 6.7      | 5.4       | 6.2       | 49       |             |            |                        |
| FRI     | 7    | 36      | 0.01             | 14.9           | 1.5610           |           |          |             |            | 12.2    | 6.6      | 5.6       |           |          |             |            |                        |
| SAT     | 8    |         | 0.01             | 17.8           | 1.3370           |           |          |             |            |         |          |           |           |          |             |            |                        |
| SUN     | 9    |         | 0.51             | 17.8           | 1.3370           | 261       | 2910     |             |            |         |          | 5.6       | 62        |          |             |            |                        |
| MON     | 10   | 39      | 0.27             | 17.5           | 1.3980           | 102       | 1889     |             |            | 12.5    | 6.6      | 6.1       | 6.4       | 75       |             |            |                        |
| TUE     | 11   | 40      | 0.68             | 17.0           | 3.3950           | 329       | 9315     |             |            | 11.4    | 6.6      | 5.4       | 20.0      | 566      |             |            |                        |
| WED     | 12   | 42      | 1.59             | 16.4           | 3.6150           | 170       | 5125     | 177         | 5336       | 10.6    | 6.6      | 4.5       | 18.0      | 543      |             |            | 3000                   |
| THU     | 13   | 33      | 0.53             | 15.7           | 2.1810           | 127       | 2310     |             |            | 10.6    | 6.6      | 7.0       | 16.0      | 291      |             |            | 110                    |
| FRI     | 14   | 39      | 0.29             | 14.8           | 2.2870           |           |          |             |            | 10.2    | 6.9      | 6.5       |           |          |             |            |                        |
| SAT     | 15   |         | 0.17             | 13.9           | 1.6880           |           |          |             |            |         |          |           |           |          |             |            |                        |
| SUN     | 16   |         | 0.10             | 13.1           | 1.3920           | 194       | 2252     |             |            |         |          | 8.2       | 95        |          |             |            |                        |
| MON     | 17   | 35      | 0.19             | 12.9           | 1.1100           | 180       | 1666     |             |            | 11.3    | 7.0      | 6.1       | 7.2       | 67       |             |            |                        |
| TUE     | 18   | 32      | 0.00             | 13.9           | 1.1170           | 360       | 3354     |             |            | 11.0    | 7.1      | 6.0       | 8.0       | 75       |             |            |                        |
| WED     | 19   | 26      | 0.00             | 15.3           | 1.0420           | 240       | 2086     | 120         | 1043       | 18.0    | 7.0      | 5.0       | 6.0       | 52       |             |            | 240                    |
| THU     | 20   | 26      | 0.00             | 16.6           | 1.0160           | 264       | 2237     |             |            | 11.0    | 6.9      | 6.2       | 5.4       | 46       |             |            |                        |
| FRI     | 21   | 31      | 0.01             | 18.3           | 1.0990           |           |          |             |            | 9.8     | 6.9      | 6.0       |           |          |             |            |                        |
| SAT     | 22   |         | 0.27             | 19.5           | 1.9070           |           |          |             |            |         |          |           |           |          |             |            |                        |
| SUN     | 23   |         | 0.03             | 20.4           | 1.5000           | 170       | 2127     |             |            |         |          | 10.8      | 135       |          |             |            |                        |
| MON     | 24   | 36      | 0.83             | 20.7           | 2.6830           | 126       | 2819     |             |            | 11.0    | 6.7      | 6.2       | 8.2       | 183      |             |            |                        |
| TUC     | 25   | 34      | 0.00             | 20.5           | 1.5190           | 235       | 2977     |             |            | 8.1     | 6.9      | 7.3       | 14.4      | 182      |             |            |                        |
| WED     | 26   | 30      | 0.16             | 19.7           | 1.2430           | 216       | 2239     | 123         | 1275       | 10.3    | 6.9      | 6.1       | 10.0      | 104      |             |            | 23                     |
| THU     | 27   | 29      | 0.01             | 18.4           | 1.0320           | 264       | 2272     |             |            | 9.7     | 7.0      | 6.6       | 6.4       | 55       |             |            |                        |
| FRI     | 28   | 26      | 0.11             | 16.9           | 1.0480           |           |          |             |            | 9.7     | 7.0      | 6.7       |           |          |             |            |                        |
| SAT     | 29   |         | 0.05             | 15.2           | 0.9620           |           |          |             |            |         |          |           |           |          |             |            |                        |
| TOTAL   |      |         | 5.03             |                | 42.3380          |           |          |             |            |         |          |           |           |          |             |            |                        |
| MAXIMUM |      | 42      | 1.59             | 20.70          | 3.6150           | 972       | 9315     | 238         | 5336       | 18.1    | 7.1      | 7.3       | 20.0      | 566      | 3.5         | 29.2       | 3000                   |
| MINIMUM |      | 26      | 0.00             | 12.90          | 0.9250           | 126       | 1666     | 120         | 1043       | 8.1     | 6.6      | 4.5       | 4.2       | 32       | 3.5         | 29.2       | 23                     |
| AVERAGE |      | 33      | 0.21             | 16.34          | 1.5121           | 302       | 3396     | 165         | 2405       | 11.9    | 6.8      | 5.9       | 8.9       | 138      | 3.5         | 29.2       | 166                    |

COMMENTS:

| % REMOVAL |      |
|-----------|------|
| B.O.D.    | 97.8 |
| S.S.      | 97.1 |

|        |     |      |
|--------|-----|------|
| Copper | N/A | ug/L |
| NH3    | N/A | mg/L |
| NH3    | N/A | lbs  |

|          |     |
|----------|-----|
| Tox. TUs | N/A |
|----------|-----|

| Weekly   | TSS  |       |      |      | BOD  |     | Weekly    |
|----------|------|-------|------|------|------|-----|-----------|
| TSS, BOD | mg/l | lbs   | mg/l | lbs  | mg/l | lbs | Coliform  |
| Aver.    | mg/l | lbs   | mg/l | lbs  | mg/l | lbs | Geo. Mean |
| WEEK1    | 5.5  | 307.4 | 3.5  | 29.2 |      |     | 70        |
| WEEK2    | 13.2 | 307.4 | 3.5  |      |      |     | 574       |
| WEEK3    | 7.0  | 314.0 | 3.5  |      |      |     | 240       |
| WEEK4    | 10.0 | 132.0 | 3.5  |      |      |     | 23        |
| Max      | 13.2 | 314.0 | 3.5  | 29.2 |      |     | 574       |