

PHYSICAL ADDRESS:

1656 SUTTER ROAD
McKINLEYVILLE, CA 95519

MAILING ADDRESS:

P.O. BOX 2037
McKINLEYVILLE, CA 95519



mckinleyvillecsd.com

MAIN OFFICE:

PHONE: (707) 839-3251
FAX: (707) 839-8456

PARKS & RECREATION OFFICE:

PHONE: (707) 839-9003
FAX: (707) 839-5964

R.W.Q.C.B. NORTH COAST REGION
5550 SKYLANE BLVD., SUITE A
SANTA ROSA, CA 95403

February 22, 2017

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for January 2017 for McKinleyville Community Services District Wastewater Management Facilities WDID NO. 1B82084OHUM, operating under Order Number WQ 2011-0008-DWQ.

The normal discharge of effluent was 31 days to Discharge Point 001. The required monitoring and water quality constituents that were tested and reported were in compliance in January.

The requirement for BOD is 45 mg/L, 604 lbs/day and 65% removal for the monthly average with four weekly tests in January that represent eleven criteria. The BOD results for January are in compliance.

The requirement for TSS is 83 mg/L, 1108 lbs/day and 65% removal for the monthly average with four weekly tests in January which represent three criteria. The TSS results for January are in compliance.

The requirement for Nitrate as Nitrogen in the effluent is a monthly average of 10 mg/L. One test was conducted in January and was in compliance.

Total Coliform Organisms MPN/100 ml. The Monthly Median not to exceed MPN of 23 and the daily maximum not to exceed MPN of 230. The reported results for the month of January are as follows. Median was <1.8 and a Maximum of 2. Four samples were collected in the month of January and were in compliance.

Monthly River Monitoring was conducted in January.

Quarterly well samples were conducted in January.

Annual, Semi-annual and quarterly samples were conducted in January.

Acute testing for January was conducted using Rainbow Trout and C.Dubia. Rainbow Trout had a 100% survival and C.Dubia had a 100% survival.

WWMF Upgrade Status: Clarifier "A" and "B" mechanical equipment is being installed. The headworks and maintenance building are 85% completed. Underground conduit is being installed along with running wire. Aeration basin 2 is still under construction. The biosolids basin is lined. The rain has slowed the project down a little. Backfilling around the clarifiers is in process. Weekly meeting have been conducted with District staff, contractors, engineers and the project manager. Contractors have 521 days to complete the project. They have projected to be completed by July 2017.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

JANUARY 2017

| Discharge Monitoring | | | | 002 | 002 | 004 | 003 | 006 | 005 | 001 | | |
|-------------------------|--------|-----------------|-----------------|----------------|---------------|---------------|-------------------------|-------------------------|-----------------|---------------|-------------------------|--------------|
| | M-INF | M-001 | | M-003 | M-003 | M-005 | M-004 | M-007 | M-006 | | M-002 | |
| | DATE | INFLUENT MGD | EFFLUENT MGD | MAXIMUM GPM | N.POND MGD | S.POND MGD | FISCHER MGD UPPER | FISCHER MGD LOWER | PIALORSI MGD | HILLER MGD | IRRGATE TOTAL MGD | RIVER MGD |
| | | | | | | | | | | | | |
| 1 | 1.046 | 1.770 | 1275 | | | | | | | 0.000 | 1.770 | |
| 2 | 1.165 | 1.827 | 1294 | | | | | | | 0.000 | 1.827 | |
| 3 | 1.316 | 1.653 | 1286 | | | | | | | 0.000 | 1.653 | |
| 4 | 1.326 | 1.409 | 986 | | | | | | | 0.000 | 1.409 | |
| 5 | 1.241 | 1.301 | 987 | | | | | | | 0.000 | 1.301 | |
| 6 | 1.148 | 1.497 | 1199 | | | | | | | 0.000 | 1.497 | |
| 7 | 1.285 | 1.701 | 1201 | | | | | | | 0.000 | 1.701 | |
| 8 | 1.423 | 1.700 | 1248 | | | | | | | 0.000 | 1.700 | |
| 9 | 1.428 | 1.729 | 1226 | | | | | | | 0.000 | 1.729 | |
| 10 | 1.587 | 1.813 | 1364 | | | | | | | 0.000 | 1.813 | |
| 11 | 1.471 | 1.992 | 1486 | | | | | | | 0.000 | 1.992 | |
| 12 | 1.397 | 1.670 | 1438 | | | | | | | 0.000 | 1.670 | |
| 13 | 1.307 | 1.460 | 1245 | | | | | | | 0.000 | 1.460 | |
| 14 | 1.310 | 1.789 | 1252 | | | | | | | 0.000 | 1.789 | |
| 15 | 1.290 | 1.788 | 1255 | | | | | | | 0.000 | 1.788 | |
| 16 | 1.282 | 1.326 | 1255 | | | | | | | 0.000 | 1.326 | |
| 17 | 1.203 | 1.003 | 703 | | | | | | | 0.000 | 1.003 | |
| 18 | 1.336 | 1.460 | 1401 | | | | | | | 0.000 | 1.460 | |
| 19 | 1.414 | 1.380 | 1321 | | | | | | | 0.000 | 1.380 | |
| 20 | 1.559 | 1.468 | 1278 | | | | | | | 0.000 | 1.468 | |
| 21 | 1.662 | 1.836 | 1286 | | | | | | | 0.000 | 1.836 | |
| 22 | 1.685 | 1.856 | 1303 | | | | | | | 0.000 | 1.856 | |
| 23 | 1.516 | 1.878 | 1317 | | | | | | | 0.000 | 1.878 | |
| 24 | 1.401 | 1.531 | 1336 | | | | | | | 0.000 | 1.531 | |
| 25 | 1.330 | 2.059 | 1525 | | | | | | | 0.000 | 2.059 | |
| 26 | 1.280 | 1.715 | 1535 | | | | | | | 0.000 | 1.715 | |
| 27 | 1.216 | 1.741 | 1570 | | | | | | | 0.000 | 1.741 | |
| 28 | 1.263 | 2.254 | 1580 | | | | | | | 0.000 | 2.254 | |
| 29 | 1.285 | 2.267 | 1585 | | | | | | | 0.000 | 2.267 | |
| 30 | 1.211 | 2.265 | 1590 | | | | | | | 0.000 | 2.265 | |
| 31 | 1.150 | 1.917 | 1574 | | | | | | | 0.000 | 1.917 | |
| | | | | | | | | | | | | |
| TOTAL | 41.533 | 53.055 | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 53.055 | |
| AVERAGE | 1.340 | 1.711 | 1319 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.711 | |
| MAXIMUM | 1.685 | 2.267 | 1590 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 2.267 | |
| MINIMUM | 1.046 | 1.003 | 703 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.003 | |
| DAYS | 31 | 31 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | |

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
RIVER CFS - EFFLUENT FLOWS -

M-004

RIVER DILUTION

M-005

M-006

January 2017

| DATE | M-INF INFLUENT MGD | M-001 EFFLUENT MGD | EFFLUENT MAXIMUM GPM | M-003 PERK PONDS MGD | M-007 IRRIGATE MGD | M-002 RIVER MGD | RIVER DILUTION 100:1 | MAXIMUM G.P.M. DISCHARGE FOR 100:1 | RIVER FLOW IN CFS | RIVER FLOW IN GPS |
|------|--------------------------|--------------------------|----------------------------|-------------------------------|--------------------------|-----------------------|----------------------------|---|-------------------------|-------------------------|
|------|--------------------------|--------------------------|----------------------------|-------------------------------|--------------------------|-----------------------|----------------------------|---|-------------------------|-------------------------|

| | | | | | | | | | | |
|----|-------|-------|------|--|--|-------|------|--------|-------|--------|
| 1 | 1.046 | 1.770 | 1275 | | | 1.770 | 451 | 5745 | 1280 | 9576 |
| 2 | 1.165 | 1.827 | 1294 | | | 1.827 | 441 | 5701 | 1270 | 9501 |
| 3 | 1.316 | 1.653 | 1286 | | | 1.653 | 531 | 6823 | 1520 | 11371 |
| 4 | 1.326 | 1.409 | 986 | | | 1.409 | 2649 | 26124 | 5820 | 43539 |
| 5 | 1.241 | 1.301 | 987 | | | 1.301 | 1933 | 19077 | 4250 | 31794 |
| 6 | 1.148 | 1.497 | 1199 | | | 1.497 | 1224 | 14678 | 3270 | 24463 |
| 7 | 1.285 | 1.701 | 1201 | | | 1.701 | 1058 | 12703 | 2830 | 21171 |
| 8 | 1.423 | 1.700 | 1248 | | | 1.700 | 1845 | 23027 | 5130 | 38378 |
| 9 | 1.428 | 1.729 | 1226 | | | 1.729 | 8567 | 105033 | 23400 | 175055 |
| 10 | 1.587 | 1.813 | 1364 | | | 1.813 | 4640 | 63289 | 14100 | 105482 |
| 11 | 1.471 | 1.992 | 1486 | | | 1.992 | 8609 | 127925 | 28500 | 213209 |
| 12 | 1.397 | 1.670 | 1438 | | | 1.670 | 4464 | 64187 | 14300 | 106978 |
| 13 | 1.307 | 1.460 | 1245 | | | 1.460 | 3198 | 39814 | 8870 | 66356 |
| 14 | 1.310 | 1.789 | 1252 | | | 1.789 | 2273 | 28458 | 6340 | 47430 |
| 15 | 1.290 | 1.788 | 1255 | | | 1.788 | 1720 | 21590 | 4810 | 35984 |
| 16 | 1.282 | 1.326 | 1255 | | | 1.326 | 1402 | 17595 | 3920 | 29326 |
| 17 | 1.203 | 1.003 | 703 | | | 1.003 | 2075 | 14588 | 3250 | 24313 |
| 18 | 1.336 | 1.460 | 1401 | | | 1.460 | 955 | 13376 | 2980 | 22293 |
| 19 | 1.414 | 1.380 | 1321 | | | 1.380 | 3942 | 52068 | 11600 | 86780 |
| 20 | 1.559 | 1.468 | 1278 | | | 1.468 | 3688 | 47130 | 10500 | 78551 |
| 21 | 1.662 | 1.836 | 1286 | | | 1.836 | 3319 | 42687 | 9510 | 71144 |
| 22 | 1.685 | 1.856 | 1303 | | | 1.856 | 3366 | 43854 | 9770 | 73089 |
| 23 | 1.516 | 1.878 | 1317 | | | 1.878 | 2802 | 36896 | 8220 | 61494 |
| 24 | 1.401 | 1.531 | 1336 | | | 1.531 | 2033 | 27156 | 6050 | 45260 |
| 25 | 1.330 | 2.059 | 1525 | | | 2.059 | 1372 | 20917 | 4660 | 34861 |
| 26 | 1.280 | 1.715 | 1535 | | | 1.715 | 1111 | 17057 | 3800 | 28428 |
| 27 | 1.216 | 1.741 | 1570 | | | 1.741 | 906 | 14229 | 3170 | 23715 |
| 28 | 1.263 | 2.254 | 1580 | | | 2.254 | 778 | 12299 | 2740 | 20498 |
| 29 | 1.285 | 2.267 | 1585 | | | 2.267 | 711 | 11266 | 2510 | 18777 |
| 30 | 1.211 | 2.265 | 1590 | | | 2.265 | 658 | 10458 | 2330 | 17431 |
| 31 | 1.150 | 1.917 | 1574 | | | 1.917 | 653 | 10279 | 2290 | 17131 |

| | | | | | | | | | | |
|---------|--------|--------|------|-------|-------|--------|------|--------|-------|--------|
| TOTAL | 41.533 | 53.055 | | 0.000 | 0.000 | 53.055 | | | | |
| AVERAGE | 1.340 | 1.711 | 1319 | 0.000 | 0.000 | 1.711 | 2367 | 30840 | 6871 | 51399 |
| MAXIMUM | 1.685 | 2.267 | 1590 | 0.000 | 0.000 | 2.267 | 8609 | 127925 | 28500 | 213209 |
| MINIMUM | 1.046 | 1.003 | 703 | 0.000 | 0.000 | 1.003 | 441 | 5701 | 1270 | 9501 |
| DAYS | 31 | 31 | 31 | 0 | 0 | | | | | |

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

YEAR: 2017

MONTH: JANUARY

| DATE | INFLUENT FLOW | | EFFLUENT FLOW | | RIVER CFS | INFLUENT MONITORING | | EFFLUENT MONITORING | | RIVER | | SETTLABLE SOLIDS | | 3X5 TOTAL COLIFORM |
|------|---------------|--------|---------------|-------|-----------|---------------------|-------------|---------------------|----------------------|----------------------|------|------------------|------|--------------------|
| | M.G.D. | M.G.D. | M.G.D. | GPM | | B.O.D. mg/L | N.F.R. mg/L | AMMONIA | CL ₂ RES. | CL ₂ RES. | mg/L | mg/L | mg/L | |
| 1 | 1.046 | 1.770 | 1.770 | 1275 | 1280 | | | | 2.9 | 0.00 | | | | |
| 2 | 1.165 | 1.827 | 1.827 | 1294 | 1270 | | | | 3.0 | 0.00 | | | | |
| 3 | 1.316 | 1.653 | 1.653 | 1286 | 1520 | | | 26 | 3.1 | 0.00 | | | | <1.8 |
| 4 | 1.326 | 1.409 | 986 | 5820 | | | | 24 | 3.6 | 0.00 | | | | |
| 5 | 1.241 | 1.301 | 987 | 4250 | | | | 24 | 2.7 | 0.00 | | | | |
| 6 | 1.148 | 1.497 | 1199 | 3270 | | 270 | 490 | 24 | 2.8 | 0.00 | | <0.1 | | |
| 7 | 1.285 | 1.701 | 1201 | 2830 | | | | | 1.9 | 0.00 | | | | |
| 8 | 1.423 | 1.700 | 1248 | 5130 | | | | 30 | 2.1 | 0.00 | | | | |
| 9 | 1.428 | 1.729 | 1226 | 23400 | | | | 24 | 2.2 | 0.00 | | | | 2 |
| 10 | 1.587 | 1.813 | 1364 | 14100 | | | | 26 | 2.2 | 0.00 | | | | |
| 11 | 1.471 | 1.992 | 1486 | 28500 | | | | 28 | 3.6 | 0.00 | | | | |
| 12 | 1.397 | 1.670 | 1438 | 14300 | | | | 26 | 3.3 | 0.00 | | | | |
| 13 | 1.307 | 1.460 | 1245 | 8870 | | 180 | 190 | 38 | 3.2 | 0.00 | | <0.1 | | |
| 14 | 1.310 | 1.789 | 1252 | 6340 | | | | 26 | 1.3 | 0.00 | | | | |
| 15 | 1.290 | 1.788 | 1255 | 4810 | | | | | 2.0 | 0.00 | | | | |
| 16 | 1.282 | 1.326 | 1255 | 3920 | | | | 28 | 2.0 | 0.00 | | | | <1.8 |
| 17 | 1.203 | 1.003 | 703 | 3250 | | | | 24 | 2.3 | 0.00 | | | | |
| 18 | 1.336 | 1.460 | 1401 | 2980 | | | | 28 | 1.5 | 0.00 | | | | |
| 19 | 1.414 | 1.380 | 1321 | 11600 | | | | 28 | 0.3 | 0.00 | | | | |
| 20 | 1.559 | 1.468 | 1278 | 10500 | | 200 | 150 | 21 | 1.4 | 0.00 | | <0.1 | | |
| 21 | 1.662 | 1.836 | 1286 | 9510 | | | | | 3.5 | 0.00 | | | | |
| 22 | 1.685 | 1.856 | 1303 | 9770 | | | | | 2.7 | 0.00 | | | | |
| 23 | 1.516 | 1.878 | 1317 | 8220 | | | | 28 | 2.3 | 0.00 | | | | 2 |
| 24 | 1.401 | 1.531 | 1336 | 6050 | | | | 24 | 2.0 | 0.00 | | | | |
| 25 | 1.330 | 2.059 | 1525 | 4660 | | | | 24 | 1.8 | 0.00 | | | | |
| 26 | 1.280 | 1.715 | 1535 | 3800 | | | | 26 | 1.7 | 0.00 | | | | |
| 27 | 1.216 | 1.741 | 1570 | 3170 | | 210 | 280 | 16 | 2.2 | 0.00 | | <0.1 | | |
| 28 | 1.263 | 2.254 | 1580 | 2740 | | | | | 0.6 | 0.00 | | | | |
| 29 | 1.285 | 2.267 | 1585 | 2510 | | | | | 1.8 | 0.00 | | | | |
| 30 | 1.211 | 2.265 | 1590 | 2330 | | | | 26 | 1.8 | 0.00 | | | | <1.8 |
| 31 | 1.150 | 1.917 | 1574 | 2290 | | | | 26 | 1.8 | 0.00 | | | | |

SPILLS:

| |
|----------------|
| None to report |
|----------------|

MONTHLY TESTS

| DATE | TDS | AMMONIA | NITRATE | BORON |
|-----------|-----|---------|---------|-------|
| 1/11/2017 | 190 | 24 | ND | 160 |

| Semi-Annual Tests | | Value in ug/l |
|----------------------|--|---------------|
| Bis phthalate | | N/A |
| alpha-BHC | | N/A |
| 4,4' -DDT | | N/A |
| carbon tetrachloride | | N/A |

| Quarterly Tests | | Value in ug/l |
|----------------------|--|---------------|
| Dichlorobromomethane | | N/A |
| Bromoform | | N/A |
| Chlorodibromomethane | | N/A |
| Chloroform | | N/A |

30 DAY AVERAGE

| | | | | | | | | | | | |
|----------|----|-------------|-----|---------------|----|----------|----|-------------|-----|---------------|----|
| BOD mg/L | 24 | BOD LBS/DAY | 300 | BOD % Removal | 89 | NFR mg/L | 31 | NFR LBS/DAY | 388 | NFR % Removal | 88 |
|----------|----|-------------|-----|---------------|----|----------|----|-------------|-----|---------------|----|

ACUTE TOXICITY

| DATE | % Survival |
|-------------------------|------------|
| Rainbow Trout 1/17/2017 | 100% |
| C. dubia 1/17/2017 | 100% |

CHRONIC TOXICITY

| TESTED | SURVIVAL |
|----------|----------|
| Minnow | N/A |
| C. Dubia | N/A |
| Algae | N/A |
| TUC | |

Total Coliform

Monthly

MEDIAN

<1.8

Daily

Maximum

2

SIGNATURE: _____

REMARKS: Failed to pass Chronic Toxicity testing. Justing was notified by email and voicemail.

Indicates Permit Exceedance