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

March 23, 2017

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for February 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 27 days to Discharge Point 001. The required monitoring and water quality constituents that were tested and reported were in compliance in February.

The requirement for BOD is 45 mg/L, 604 lbs/day and 65% removal for the monthly average with four weekly tests in February that represent eleven criteria. The BOD results for February 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 February which represent three criteria. The TSS results for February 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 February 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 February are as follows. Median was 2 and a Maximum of 4.5. Four samples were collected in the month of February and were in compliance.

Monthly River Monitoring was conducted in February.

Acute testing for February 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 installed. The headworks and maintenance building are 85% completed. Piping from Mixed liquor to Aeration basin 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 near completion. Weekly meetings 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

FEBRUARY 2017

Discharge Monitoring				002	002	004	003	006	005	001	
DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	MAXIMUM GPM	M-003 N.POND MGD	M-003 S.POND MGD	M-005 FISCHER MGD UPPER	M-004 FISCHER MGD LOWER	M-007 PIALORSI MGD	M-006 HILLER MGD	IRRGATE TOTAL MGD	M-002 RIVER MGD
1	1.143	1.641	1148							0.000	1.641
2	1.118	1.357	1134							0.000	1.357
3	1.200	1.240	995							0.000	1.240
4	1.284	1.408	986							0.000	1.408
5	1.364	1.411	987							0.000	1.411
6	1.414	0.567	984							0.000	0.567
7	1.488	0.000	0	Washed CCB						0.000	0.000
8	1.498	0.950	1077							0.000	0.950
9	1.717	1.596	1152							0.000	1.596
10	1.611	1.771	1390							0.000	1.771
11	1.528	2.051	1469							0.000	2.051
12	1.512	2.128	1499							0.000	2.128
13	1.378	2.161	1516							0.000	2.161
14	1.313	2.171	1526							0.000	2.171
15	1.349	2.158	1510							0.000	2.158
16	1.821	2.122	1493							0.000	2.122
17	1.712	2.145	1505							0.000	2.145
18	1.774	2.152	1517							0.000	2.152
19	1.834	2.175	1522							0.000	2.175
20	1.930	2.157	1507							0.000	2.157
21	1.975	2.134	1515							0.000	2.134
22	1.868	2.193	1553							0.000	2.193
23	1.876	2.237	1584							0.000	2.237
24	1.685	2.279	1602							0.000	2.279
25	1.687	2.285	1604							0.000	2.285
26	1.706	2.303	1619							0.000	2.303
27	1.714	2.321	1626							0.000	2.321
28	1.636	2.312	1625							0.000	2.312
TOTAL	44.135	51.425		0.000	0.000	0.000	0.000	0.000	0.000	0.000	51.425
AVERAGE	1.576	1.837	1344	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.837
MAXIMUM	1.975	2.321	1626	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.321
MINIMUM	1.118	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	28	27		0	0	0	0	0	0	0	27
DAYS WITH NO DISCHARGE = 1											

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

RIVER DILUTION

February 2017

M-004

M-005

M-006

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
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1	1.143	1.641	1148			1.641	864	9920	2210	16533
2	1.118	1.357	1134			1.357	863	9785	2180	16309
3	1.200	1.240	995			1.240	1525	15171	3380	25286
4	1.284	1.408	986			1.408	4689	46233	10300	77054
5	1.364	1.411	987			1.411	4066	40128	8940	66880
6	1.414	0.567	984			0.567	5474	53863	12000	89772
7	1.488	0.000	0		Washed CCB	0.000	0	62840	14000	104734
8	1.498	0.950	1077			0.950	6377	68676	15300	114459
9	1.717	1.596	1152			1.596	6546	75408	16800	125681
10	1.611	1.771	1390			1.771	6426	89323	19900	148872
11	1.528	2.051	1469			2.051	4033	59250	13200	98749
12	1.512	2.128	1499			2.128	2827	42372	9440	70621
13	1.378	2.161	1516			2.161	2147	32542	7250	54237
14	1.313	2.171	1526			2.171	1712	26124	5820	43539
15	1.349	2.158	1510			2.158	1409	21276	4740	35460
16	1.821	2.122	1493			2.122	2637	39365	8770	65608
17	1.712	2.145	1505			2.145	2058	30971	6900	51619
18	1.774	2.152	1517			2.152	2101	31869	7100	53115
19	1.834	2.175	1522			2.175	1722	26213	5840	43689
20	1.930	2.157	1507			2.157	1722	25944	5780	43240
21	1.975	2.134	1515			2.134	4918	74511	16600	124185
22	1.868	2.193	1553			2.193	3584	55659	12400	92764
23	1.876	2.237	1584			2.237	2695	42687	9510	71144
24	1.685	2.279	1602			2.279	1760	28188	6280	46981
25	1.687	2.285	1604			2.285	1254	20109	4480	33515
26	1.706	2.303	1619			2.303	909	14723	3280	24538
27	1.714	2.321	1626			2.321	867	14094	3140	23490
28	1.636	2.312	1625			2.312	773	12568	2800	20947

TOTAL	44.135	51.425		0.000	0.000	51.425				
AVERAGE	1.576	1.837	1344	0.000	0.000	1.837	2713	38208	8512	63679
MAXIMUM	1.975	2.321	1626	0.000	0.000	2.321	6546	89323	19900	148872
MINIMUM	1.118	0.000	0	0.000	0.000	0.000	0	9785	2180	16309
DAYS	28	28	27	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: FEBRUARY

YEAR: 2017

DATE	INFLUENT		EFFLUENT		RIVER	INFLUENT MONITORING		EFFLUENT MONITORING					3X5 TOTAL COLIFORM	
	FLOW M.G.D.	FLOW M.G.D.	FLOW M.G.D.	MAXIMUM GPM		B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	N.F.R. mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES.
1	1.143	1.641	1.357	1148	2210			6.6	10.6			26	1.4	0.00
2	1.118	1.357	1.240	1134	2180			6.7	10.3			24	1.0	0.00
3	1.200	1.240	995	3380	3380	210		6.6	11.1	16	11	28	1.8	0.00
4	1.284	1.408	986	10300	10300			6.8	12.1				1.2	0.00
5	1.364	1.411	987	8940	8940			6.7	11.7				1.6	0.00
6	1.414	0.567	984	12000	12000			6.6	11.9			26	2.2	0.00
7	1.488	0.000	0	14000	14000			Washed CCB						
8	1.498	0.950	1077	15300				7.1	13.6			24	2.1	0.00
9	1.717	1.596	1152	16800				6.5	13.4			26	1.6	0.00
10	1.611	1.771	1390	19900	19900	210		6.7	12.2	13	11	30	5.2	0.00
11	1.528	2.051	1469	13200				6.8	11.9				6.2	0.00
12	1.512	2.128	1499	9440				7.0	11.6				2.6	0.00
13	1.378	2.161	1516	7250				6.9	11.5			24	2.1	0.00
14	1.313	2.171	1526	5820				6.9	11.4			30	1.6	0.00
15	1.349	2.158	1510	4740				7.0	12.4			30	0.5	0.00
16	1.821	2.122	1493	8770				7.0	12.4			28	1.1	0.00
17	1.712	2.145	1505	6900		190		6.9	12.3	18	10	28	2.8	0.00
18	1.774	2.152	1517	7100				6.8	12.6				3.1	0.00
19	1.834	2.175	1522	5840				6.8	12.4				2.1	0.00
20	1.930	2.157	1507	5780				7.0	12.4				1.7	0.00
21	1.975	2.134	1515	16600				6.7	12.2			26	3.3	0.00
22	1.868	2.193	1553	12400				6.7	11.9			26	2.8	0.00
23	1.876	2.237	1584	9510				6.9	10.9			30	3.9	0.00
24	1.685	2.279	1602	6280		140		6.8	10.5	16	19	24	1.5	0.00
25	1.687	2.285	1604	4480				6.7	11.3				1.4	0.00
26	1.706	2.303	1619	3280				6.6	11.7				1.8	0.00
27	1.714	2.321	1626	3140				6.5	10.9			26	1.9	0.00
28	1.636	2.312	1625	2800				7.1	10.3			26	1.6	0.00

SPILLS:

None to report

30 DAY AVERAGE

BOD mg/L	16	BOD LBS/DAY	246	BOD % Removal	91	NFR mg/L	13	NFR LBS/DAY	204	NFR % Removal	93
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Quarterly Tests	Value in ug/l
Dichlorobromomethane	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

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

ACUTE TOXICITY

DATE	2/14/2017	% Survival	100%
Rainbow Trout	2/14/2017	% Survival	100%
C. dubia	2/14/2017	% Survival	100%

CHRONIC TOXICITY

TESTED	SURVIVAL
Minnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform	Monthly
	MEDIAN
	2
Daily	Maximum
	<1.8

SIGNATURE: _____

REMARKS:

Indicates Permit Exceedance