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

March 28, 2016

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for February 2016 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 29 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 <1.8 and a Maximum of <1.8. Five samples were collected in the month of February and were in compliance.

Monthly River Monitoring was conducted in February.

Annual CTR Pollutants of Concern testing was conducted in February.

Acute testing for December was conducted using Rainbow Trout and C.Dubia. Rainbow Trout had a 100% survival and C.Dubia had a 95% survival.

WWMF Upgrade Status: The Contractors have shown up and started breaking ground on the construction. They are in the process of building a site to set-up trailers and equipment. Contractor trailers are being hauled in and they will start working inside the existing Pond 1A during the first week of April. Contractors have 521 days to complete the project. They have projected to be completed by February 2017.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

FEBRUARY 2016

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	1.326	1.599	1499								0.000	1.599
2	1.265	1.573	1266								0.000	1.573
3	1.269	1.358	960								0.000	1.358
4	1.227	1.380	983								0.000	1.380
5	1.196	1.321	1004								0.000	1.321
6	1.219	1.150	810								0.000	1.150
7	1.252	1.137	807								0.000	1.137
8	1.169	1.109	789								0.000	1.109
9	1.106	1.047	739								0.000	1.047
10	1.082	1.023	718								0.000	1.023
11	1.080	1.024	718								0.000	1.024
12	1.070	1.023	723								0.000	1.023
13	1.093	1.025	729								0.000	1.025
14	1.098	1.022	717								0.000	1.022
15	1.094	0.824	707								0.000	0.824
16	1.038	0.648	487								0.000	0.648
17	1.048	0.750	618								0.000	0.750
18	1.122	0.877	625								0.000	0.877
19	1.184	0.871	622								0.000	0.871
20	1.175	0.875	634								0.000	0.875
21	1.204	0.892	636								0.000	0.892
22	1.127	1.040	948								0.000	1.040
23	1.058	1.360	961								0.000	1.360
24	1.040	1.357	960								0.000	1.357
25	1.031	1.353	958								0.000	1.353
26	1.028	1.166	951								0.000	1.166
27	1.070	1.125	797								0.000	1.125
28	1.132	1.129	798								0.000	1.129
29	0.969	1.122	796								0.000	1.122
TOTAL	31.803	31.058		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	31.058
AVERAGE	1.136	1.109	827	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.109
MAXIMUM	1.326	1.599	1499	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.599
MINIMUM	1.028	0.648	487	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.648
DAYS	29	29		0	0	0	0	0	0	0	0	29
DAYS WITH NO DISCHARGE = 1												

RIVER DILUTION

M-007

M-INF

M-001

M-003

M-007

M-002

DATE _____

INFLUENT
MGD

EFFLUENT
MGD

EFFLUENT
MAXIMUM
GPM

PERK
PONDS
MGD

IRRIGATE
MGD

RIVER
MGD

RIVER
DILUTION
100:1

MAXIMUM
G.P.M.
DISCHARGE
FOR 100:1

RIVER
FLOW IN
CFS

RIVER
FLOW IN
GPS

1	1.326	1.599	1499			1.599	1952	29266	6520	48776
2	1.265	1.573	1266			1.573	1681	21276	4740	35460
3	1.269	1.358	960			1.358	1791	17191	3830	28652
4	1.227	1.380	983			1.380	1653	16249	3620	27081
5	1.196	1.321	1004			1.321	1377	13825	3080	23041
6	1.219	1.150	810			1.150	1485	12029	2680	20049
7	1.252	1.137	807			1.137	1340	10818	2410	18029
8	1.169	1.109	789			1.109	1240	9785	2180	16309
9	1.106	1.047	739			1.047	1118	8259	1840	13765
10	1.082	1.023	718			1.023	900	6464	1440	10773
11	1.080	1.024	718			1.024	819	5880	1310	9800
12	1.070	1.023	723			1.023	807	5835	1300	9725
13	1.093	1.025	729			1.025	708	5162	1150	8603
14	1.098	1.022	717			1.022	639	4578	1020	7631
15	1.094	0.824	707			0.824	604	4273	952	7122
16	1.038	0.648	487			0.648	806	3928	875	6546
17	1.048	0.750	618			0.750	601	3712	827	6187
18	1.122	0.877	625			0.877	948	5925	1320	9875
19	1.184	0.871	622			0.871	2049	12748	2840	21246
20	1.175	0.875	634			0.875	2648	16787	3740	27979
21	1.204	0.892	636			0.892	2047	13017	2900	21695
22	1.127	1.040	948			1.040	1136	10773	2400	17954
23	1.058	1.360	961			1.360	939	9022	2010	15037
24	1.040	1.357	960			1.357	804	7720	1720	12867
25	1.031	1.353	958			1.353	693	6643	1480	11072
26	1.028	1.166	951			1.166	618	5880	1310	9800
27	1.070	1.125	797			1.125	901	7182	1600	11970
28	1.132	1.129	798			1.129	765	6104	1360	10174
29	0.969	1.122	796			1.122	773	6149	1370	10249

TOTAL	32.772	32.180		0.000	0.000	32.180				
AVERAGE	1.130	1.110	826	#DIV/0!	#DIV/0!	1.110	1167	9879	2201	16464
MAXIMUM	1.326	1.599	1499	0.000	0.000	1.599	2648	29266	6520	48776
MINIMUM	0.969	0.648	487	0.000	0.000	0.648	601	3712	827	6187
DAYS	29	29	29	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

YEAR: 2016

MONTH: FEBRUARY

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING B.O.D. mg/L	N.F.R. mg/L	PH	TEMP (C°)	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES.	SETTLABLE SOLIDS	3X5 TOTAL COLIFORM
1	1.326	1.599	1499	6520			7.0	10.4			26	4.9	0.00		<1.8
2	1.265	1.573	1266	4740			6.9	10.7			24	5.2	0.00		
3	1.269	1.358	960	3830			7.1	11.7			24	4.4	0.00		
4	1.227	1.380	983	3620			7.2	11.9			24	3.8	0.00		
5	1.196	1.321	1004	3080	280	270	7.2	11.3	24	19	24	4.2	0.00	<0.1	
6	1.219	1.150	810	2680			7.1	11.8				3.4	0.00		
7	1.252	1.137	807	2410			7.1	11.9				3.4	0.00		
8	1.169	1.109	789	2180			7.1	13.4			20	3.1	0.00		<1.8
9	1.106	1.047	739	1840			7.1	13.4			20	2.4	0.00		
10	1.082	1.023	718	1440			7.0	13.1			24	1.3	0.00		
11	1.080	1.024	718	1310			7.1	13.5			20	1.4	0.00		
12	1.070	1.023	723	1300	210	240	7.2	13.6	26	18	22	1.7	0.00	<0.1	
13	1.093	1.025	729	1150			7.0	12.9				3.2	0.00		
14	1.098	1.022	717	1020			7.1	13.4				5.1	0.00		
15	1.094	0.824	707	952			7.1	13.8				3.8	0.00		
16	1.038	0.648	487	875			7.3	14.4			26	3.4	0.00		<1.8
17	1.048	0.750	618	827			7.1	14.6			24	3.5	0.00		
18	1.122	0.877	625	1320			7.3	13.5			26	3.2	0.00		
19	1.184	0.871	622	2840	270	180	7.1	12.4	34	21	22	2.5	0.00	<0.1	
20	1.175	0.875	634	3740			7.3	11.8				1.5	0.00		
21	1.204	0.892	636	2900			7.1	12.0				1.4	0.00		
22	1.127	1.040	948	2400			7.0	11.7			22	1.5	0.00		<1.8
23	1.058	1.360	961	2010			7.2	12.2			24	0.5	0.00		
24	1.040	1.357	960	1720			7.1	12.7			24	2.2	0.00		
25	1.031	1.353	958	1480			6.8	12.8			24	1.1	0.00		
26	1.028	1.166	951	1310	230	130	7.1	13.2	24	14	28	2.4	0.00	<0.1	
27	1.070	1.125	797	1600			6.9	16.5				3.3	0.00		
28	1.132	1.129	798	1360			7.0	13.1				3.3	0.00		
29	0.969	1.122	796	1370			7.1	12.3			26	3.8	0.00		<1.8

SPILLS:

None to report

DATE	TDS	AMMONIA	NITRATE	BORON
2/29/2016	220	26.0	ND	140

Semi-Annual Tests	Value in ug/l
Bis phthalate	N/A
alph-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	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
	27	242	89	18	163	91

ACUTE TOXICITY


DATE	% Survival
2/10/2016	100%
2/10/2016	95%

Rainbow Trout
C. dubia

CHRONIC TOXICITY	SURVIVAL
TESTED	N/A
Mirnow	N/A
C. Dubia	N/A
Algae	N/A
	TUc

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE: _____

REMARKS:  Indicates Permit Exceedance