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

May 11, 2016

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for April 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 April.

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

The requirement for TSS is 83 mg/L, 1108 lbs/day and 65% removal for the monthly average with five weekly tests in April which represent three criteria. The TSS results for April 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 April 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 April are as follows. Median was <1.8 and a Maximum of 2. Four samples were collected in the month of April and were in compliance.

Monthly River Monitoring was conducted in April.

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

Quarterly testing for Monitoring Wells and Disinfection Byproducts were completed in April.

WWMF Upgrade Status: The Clarifier excavation is near completion. The Contractors continue to pump from the dewatering wells. Concrete forming and rebar placement is in process. Materials are showing up on site to lay the new water main and valves. 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 February 2017.

A 78 gallon sewer spill occurred on April 25th. RWQCB was notified by phone along with electronic SSO reporting.

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL

APRIL 2016

Discharge Monitoring DATE	M-INF	M-001		002 M-003	002 M-003	004 M-005	003 M-004	006 M-007	005 M-006		001 M-002
	INFLUENT	EFFLUENT	MAXIMUM	N.POND	S.POND	FISCHER	FISCHER	PIALORSI	HILLER	IRRGATE	RIVER
	MGD	MGD	GPM	MGD	MGD	MGD UPPER	MGD LOWER	MGD	MGD	TOTAL MGD	MGD
1	1.081	0.956	820							0.000	0.956
2	1.106	0.748	526							0.000	0.748
3	1.161	0.745	526							0.000	0.745
4	1.075	0.291	536							0.000	0.291
5	1.053	0.000	0		Washed CCB					0.000	0.000
6	1.043	0.612	729							0.000	0.612
7	1.026	0.949	671							0.000	0.949
8	1.003	0.938	658							0.000	0.938
9	1.012	0.942	661							0.000	0.942
10	1.026	0.941	661							0.000	0.941
11	0.966	0.941	664							0.000	0.941
12	0.940	0.941	667							0.000	0.941
13	0.987	0.971	696							0.000	0.971
14	1.017	0.972	683							0.000	0.972
15	0.986	1.085	824							0.000	1.085
16	0.967	1.183	834							0.000	1.183
17	1.023	1.180	833							0.000	1.180
18	0.962	1.171	832							0.000	1.171
19	0.946	1.156	816							0.000	1.156
20	0.944	1.145	807							0.000	1.145
21	0.922	1.146	810							0.000	1.146
22	1.009	1.155	838							0.000	1.155
23	0.994	1.159	814							0.000	1.159
24	1.037	1.166	826							0.000	1.166
25	0.987	1.174	832							0.000	1.174
26	0.953	1.172	829							0.000	1.172
27	0.983	1.178	834							0.000	1.178
28	0.951	1.171	825							0.000	1.171
29	0.922	1.219	935							0.000	1.219
30	0.944	1.332	938							0.000	1.332
TOTAL	30.026	29.739		0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.739
AVERAGE	1.001	0.991	731	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.991
MAXIMUM	1.161	1.332	938	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.332
MINIMUM	0.922	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	30	29		0	0	0	0	0	0	0	29

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

M-004

RIVER DILUTION

M-005

M-006

April 2016

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	1.081	0.956	820			0.956	1030	8443	1881	14072
2	1.106	0.748	526			0.748	1442	7586	1690	12643
3	1.161	0.745	526			0.745	1314	6912	1540	11521
4	1.075	0.291	536			0.291	1198	6419	1430	10698
5	1.053	0.000	0	Washed CCB		0.000	0	5790	1290	9650
6	1.043	0.612	729			0.612	720	5252	1170	8753
7	1.026	0.949	671			0.949	729	4893	1090	8154
8	1.003	0.938	658			0.938	723	4758	1060	7930
9	1.012	0.942	661			0.942	693	4578	1020	7631
10	1.026	0.941	661			0.941	679	4489	1000	7481
11	0.966	0.941	664			0.941	654	4345	968	7242
12	0.940	0.941	667			0.941	631	4206	937	7010
13	0.987	0.971	696			0.971	594	4134	921	6890
14	1.017	0.972	683			0.972	636	4345	968	7242
15	0.986	1.085	824			1.085	714	5880	1310	9800
16	0.967	1.183	834			1.183	534	4453	992	7421
17	1.023	1.180	833			1.180	476	3963	883	6606
18	0.962	1.171	832			1.171	435	3622	807	6037
19	0.946	1.156	816			1.156	419	3420	762	5701
20	0.944	1.145	807			1.145	388	3133	698	5222
21	0.922	1.146	810			1.146	352	2855	636	4758
22	1.009	1.155	838			1.155	369	3088	688	5147
23	0.994	1.159	814			1.159	656	5341	1190	8902
24	1.037	1.166	826			1.166	587	4848	1080	8079
25	0.987	1.174	832			1.174	664	5521	1230	9202
26	0.953	1.172	829			1.172	541	4489	1000	7481
27	0.983	1.178	834			1.178	376	3133	698	5222
28	0.951	1.171	825			1.171	637	5252	1170	8753
29	0.922	1.219	935			1.219	400	3743	834	6239
30	0.944	1.332	938			1.332	337	3160	704	5267

TOTAL	30.026	29.739		0.000	0.000	29.739				
AVERAGE	1.001	0.991	731	0.000	0.000	0.991	631	4735	1055	7892
MAXIMUM	1.161	1.332	938	0.000	0.000	1.332	1442	8443	1881	14072
MINIMUM	0.922	0.000	0	0.000	0.000	0.000	0	2855	636	4758
DAYS	30	29	29	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

YEAR: 2016

MONTH: APRIL

DATE	INFLUENT FLOW		EFFLUENT FLOW		RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING							3X5 TOTAL		
	M.G.D.	M.G.D.	M.G.D.	MAXIMUM GPM		B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL ₂ RES.	RIVER CL ₂ RES	SETTLABLE SOLIDS	COLIFORM	
1	1.081	0.956	0.956	820	1030	130	150	6.9	15.1	16	16	28	3.8	0.00	<0.1		
2	1.106	0.748	0.748	526	1442			7.3	15.9				2.6	0.00			
3	1.161	0.745	0.745	526	1314			7.3	15.4				1.6	0.00			
4	1.075	0.291	0.291	536	1198			6.9	15.3			28	1.6	0.00		<1.8	
5	1.053	0.000	0	0				Washed CCB									
6	1.043	0.612	0.612	729	720			7.0	16.0			24	2.7	0.00			
7	1.026	0.949	0.949	671	729			6.9	16.3			20	1.7	0.00			
8	1.003	0.938	0.938	658	723	330	200	6.8	16.6	20	11	28	2.2	0.00	<0.1		
9	1.012	0.942	0.942	661	693			7.1	17.1				3.5	0.00			
10	1.026	0.941	0.941	661	679			7.1	16.9				3.4	0.00			
11	0.966	0.941	0.941	664	654			7.1	16.3			28	3.7	0.00		<1.8	
12	0.940	0.941	0.941	667	631			7.0	16.3			28	2.9	0.00			
13	0.987	0.971	0.971	696	594			7.1	16.3			28	2.2	0.00			
14	1.017	0.972	0.972	683	636			7.2	16.0			26	2.4	0.00			
15	0.986	1.085	1.085	824	714	250	190	6.9	15.8	20	12	24	2.4	0.00	<0.1		
16	0.967	1.183	1.183	834	534			6.9	16.0				6.4	0.00			
17	1.023	1.180	1.180	833	476			6.8	16.5				3.4	0.00			
18	0.962	1.171	1.171	832	435			6.9	16.9			24	3.2	0.00		<1.8	
19	0.946	1.156	1.156	816	419			7.0	17.3			24	2.9	0.00			
20	0.944	1.145	1.145	807	388			7.1	17.6			26	2.6	0.00			
21	0.922	1.146	1.146	810	352			6.9	18.1			26	3.0	0.00			
22	1.009	1.155	1.155	838	369	330	210	7.0	17.5	27	22	24	2.1	0.00	<0.1		
23	0.994	1.159	1.159	814	656			7.2	17.1				2.9	0.00			
24	1.037	1.166	1.166	826	587			7.0	17.2				2.9	0.00			
25	0.987	1.174	1.174	832	664			7.2	16.0			24	2.2	0.00		2	
26	0.953	1.172	1.172	829	541			7.2	16.1			32	2.3	0.00			
27	0.983	1.178	1.178	834	376			7.1	16.5			26	2.2	0.00			
28	0.951	1.171	1.171	825	637			7.2	16.3			24	2.0	0.00			
29	0.922	1.219	1.219	935	400	260	230	7.0	16.7	16	21	24	2.3	0.00	<0.1		
30	0.944	1.332	1.332	938	337			7.2	16.5				2.4	0.00			

SPILLS:

75 gallon sewer spill which was reported on April 25 2016									
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DATE	MONTHLY TESTS			BORON	
	TDS	AMMONIA	NITRATE		
4/30/2016	220	26.0	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		DNQ
Bromochloromethane		ND
Chlorodibromomethane		ND
Chloroform		0.82

30 DAY AVERAGE															
21	181	91	15	134	92										