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

December 28, 2012

RE: MONTHLY MONITORING REPORT

Dear Lisa:

Enclosed is the Monthly Monitoring Report for November 2012 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 17 days discharge to reclamation M-004, 5, 6, & 7 and land disposal M003. The required monitoring and water quality constituents that were tested and were reported were in compliance from November 1- 20 and 26- 29 except for Total Coliform on November 26 MPN >1600.

The requirement for BOD is 45 mg/L monthly average. Discharge Point 002 limit of 65 mg/L weekly average. With three weekly tests in November that represent four criteria. The BOD results for November are in compliance.

The requirement for TSS is 83 mg/L monthly average with three weekly tests in November which represent one criterion. The TSS result for November is in compliance.

The normal discharge of effluent was 8 days discharge to M-002 Mad River. The required monitoring and water quality constituents that were tested and reported were in compliance for November 20- 25, 29 and 30 except for Acute Toxicity of Ceriodaphnia.

The requirement for BOD at M-002 is 45 mg/L, 604 lbs/day and 65% removal for the monthly average and a weekly average limit of 65 mg/L and 873 lbs/day. With one weekly test in November, that constitutes five criteria. The BOD results for November are in compliance.

The requirement for NFR is 83 mg/L, 1108 lbs/day and minimum of 65% removal for the monthly average. With one weekly test in November, that constitutes three criteria. The NFR results for November 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 November and was in compliance.

Total Coliform Organisms MPN/100 ml., 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 November are as follows. Median was <1.8 and a Maximum of >1600. Five samples were collected in the month of November and were in compliance except for November 26 MPN of >1600.

Acute Toxicity testing was conducted in November. The result for Rainbow Trout was 100% and the survival of Ceriodaphnia was 10%. The mortality rate of the Ceriodaphnia triggered accelerated testing in December due to reporting time.

Monthly River Monitoring R-001 and 002 was conducted in November.

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED, IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

If you have any questions, please contact this office.

GREGORY ORSINI, GENERAL MANAGER

ENCLOSURES

FILE

NOVEMBER 2012

Discharge	001			002		002		004		003		006		005		001	
Monitoring	M-INF	M-001		M-003	M-003		M-005	M-004	M-007	M-006						M-002	
DATE	INFLUENT	EFFLUENT	MAXIMUM	N.POND	S.POND		FISCHER	FISCHER	PIALORSI	HILLER	IRRIGATE					RIVER	
	MGD	MGD	GPM	MGD	MGD		MGD	MGD	MGD	MGD	TOTAL					MGD	
							UPPER	LOWER			MGD						
1	0.844	1.515	1282				1.095			0.264	0.156	1.515	0.00				
2	0.822	1.284	1311	0.377			0.667			0.155	0.085	0.907	0.00				
3	0.886	0.746	523	0.746								0.000	0.00				
4	0.933	0.748	525	0.748								0.000	0.00				
5	0.860	1.300	1269	0.315			0.653	0.048	0.185	0.099	0.985	0.00					
6	0.835	1.721	1275				1.201	0.050	0.304	0.166	1.721	0.00					
7	0.833	1.648	1157				1.187		0.301	0.160	1.648	0.00					
8	0.876	1.433	1157				0.973		0.297	0.163	1.433	0.00					
9	0.892	0.840	1050	0.177			0.445		0.145	0.073	0.663	0.00					
10	0.881	0.299	227	0.299							0.000	0.00					
11	0.886	0.310	231	0.310							0.000	0.00					
12	0.925	0.300	214	0.300							0.000	0.00					
13	0.845	1.095	1224	0.116			0.668		0.203	0.108	0.979	0.00					
14	0.846	1.728	1227				1.260		0.303	0.165	1.728	0.00					
15	0.837	1.715	1327				1.242		0.306	0.167	1.715	0.00					
16	0.840	1.276	1198	0.463			0.625		0.119	0.069	0.813	0.00					
17	0.942	0.853	605	0.853							0.000	0.00					
18	0.927	0.862	606	0.862							0.000	0.00					
19	0.883	1.389	1254	0.318			0.963			0.108	1.071	0.00					
20	0.979	1.592	1365				0.510			0.061	0.571	1.02					
21	0.968	1.386	985								0.000	1.38					
22	0.948	1.895	1535								0.000	1.89					
23	0.865	2.202	1550								0.000	2.20					
24	0.884	2.197	1550								0.000	2.19					
25	0.953	1.595	1518								0.000	1.59					
26	0.887	1.200	1280				1.200				1.200	0.00					
27	0.866	1.690	1282				1.532			0.158	1.690	0.00					
28	0.893	1.391	972				1.391				1.391	0.00					
29	1.082	1.296	967				0.432				0.432	0.86					
30	1.030	1.269	1181								0.000	1.26					
TOTAL	26.948	38.775		5.884	0.000		16.044	0.098	2.582	1.738	20.462	12.42					
AVERAGE	0.898	1.293	1062	0.453	0.000		0.944	0.049	0.235	0.124	0.682	0.41					
MAXIMUM	1.082	2.202	1550	0.862	0.000		1.532	0.050	0.306	0.167	1.728	2.20					
MINIMUM	0.822	0.299	214	0.116	0.000		0.432	0.048	0.119	0.061	0.000	0.00					
DAYS	30	30		13	0		17	2	11	14	17						
DAYS WITH NO DISCHARGE = 0																	

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

M-004

RIVER DILUTION

M-005

M-006

NOVEMBER 2012

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	0.844	1.515	1282		1.515	0.000	0	0		0
2	0.822	1.284	1311	0.377	0.907	0.000	0	0		0
3	0.886	0.746	523	0.746		0.000	0	0		0
4	0.933	0.748	525	0.748		0.000	0	0		0
5	0.860	1.300	1269	0.315	0.985	0.000	0	0		0
6	0.835	1.721	1275		1.721	0.000	0	0		0
7	0.833	1.648	1157		1.648	0.000	0	0		0
8	0.876	1.433	1157		1.433	0.000	0	0		0
9	0.892	0.840	1050	0.177	0.663	0.000	0	0		0
10	0.881	0.299	227	0.299		0.000	0	0		0
11	0.886	0.310	231	0.310		0.000	0	0		0
12	0.925	0.300	214	0.300		0.000	0	0		0
13	0.845	1.095	1224	0.116	0.979	0.000	0	0		0
14	0.846	1.728	1227		1.728	0.000	0	0		0
15	0.837	1.715	1327		1.715	0.000	0	0		0
16	0.840	1.276	1198	0.463	0.813	0.000	0	0		0
17	0.942	0.853	605	0.853		0.000	0	0		0
18	0.927	0.862	606	0.862		0.000	0	0		0
19	0.883	1.389	1254	0.318	1.071	0.000	0	0		0
20	0.979	1.592	1365		0.571	1.021	139	1899	423	3164
21	0.968	1.386	985			1.386	1116	10997	2450	18328
22	0.948	1.895	1535			1.895	485	7451	1660	12418
23	0.865	2.202	1550			2.202	238	3685	821	6142
24	0.884	2.197	1550			2.197	137	2128	474	3546
25	0.953	1.595	1518			1.595	89	1356	302	2259
26	0.887	1.200	1280		1.200	0.000	84	1073	239	1788
27	0.866	1.690	1282		1.690	0.000	69	889	198	1481
28	0.893	1.391	972		1.391	0.000	88	853	190	1421
29	1.082	1.296	967		0.432	0.864	428	4138	922	6897
30	1.030	1.269	1181			1.269	3580	42283	9420	70471

TOTAL	26.948	38.775		5.884	20.462	12.429				
AVERAGE	0.898	1.293	1062	0.453	1.204	0.414	215	2558	1554	4264
MAXIMUM	1.082	2.202	1550	0.862	1.728	2.202	3580	42283	9420	70471
MINIMUM	0.822	0.299	214	0.116	0.432	0.000	0	0	190	0
DAYS	30	30		13	17					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 22

**MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA**

MONTH: NOVEMBER

YEAR: 2012

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING							SETTLABLE SOLIDS	3X5 TOTAL COLIFORM
					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	0.844	1.515	1282				6.8	15				36	2.5		
2	0.822	1.284	1311		430		7.0	14.9	33		35	30	2.7		<0.1
3	0.886	0.746	523												
4	0.933	0.748	525												
5	0.860	1.300	1269				6.8	15.2				28	2.9		23
6	0.835	1.721	1275				7	15.5				32	2.8		
7	0.833	1.648	1157				6.9	15.3				32	2.6		
8	0.876	1.433	1157				7.2	14.3				30	2.7		
9	0.892	0.840	1050		310	290	7.1	13.5	31		35	34	3.3		
10	0.881	0.299	227												
11	0.886	0.310	231												
12	0.925	0.300	214												
13	0.845	1.095	1224				6.9	14.2				28	3.3		<1.8
14	0.846	1.728	1227				6.8	13.3				28	3.1		
15	0.837	1.715	1327				6.8	12.8				32	3.3		
16	0.840	1.276	1198		250	480	7.1	12.9	44		36	32	2.7		<0.1
17	0.842	0.853	605												
18	0.927	0.862	606												
19	0.883	1.389	1254				7.1	13.6				28	2.8		<1.8
20	0.979	1.592	1365	423			7.1	14.2				30	2.6	0.00	
21	0.968	1.386	985	2450	250	190	7.0	13.4	44		32	36	3.2	0.00	
22	0.948	1.895	1535	1660			7.0	12.4					1.0	0.00	
23	0.865	2.202	1550	821			7.2	12.3					2.4	0.00	
24	0.864	2.197	1550	474			7.3	12.3					2.3	0.00	
25	0.853	1.595	1518	302			7.3	13.0				32	2.7	0.00	
26	0.887	1.200	1280	239			7.1	13.3				32	1.7		>1600
27	0.866	1.690	1282	198			6.9	13.1				32	4.6		
28	0.893	1.391	972	190			7.1	12.9				36	5.6		
29	1.082	1.296	967	922			7.2	13.8				30	2.9	0.00	
30	1.030	1.269	1181	9420	200	190	7.2	14.0	44		30	28	2.7	0.00	<0.1
															<1.8

MONTHLY TESTS			
DATE	TDS	AMMONIA	NITRATE
11/7/2012	300	24.0	ND
			BORON
			250

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
Bromodim		N/A
Chlorodibromomethane		N/A
Chlorodim		N/A

ACUTE TOXICITY		% Survival
Rainbow Trout	11/21/2012	100%
C. dubia	11/21/2012	10%

REMARKS: ☐ Indicates Permit Exceedance

CHRONIC TOXICITY		TESTED	SURVIVAL
C. Dubia		N/A	N/A
Algae		N/A	N/A
		TUC	

Total Coliform	
Monthly	
MEDIAN	<1.8
Daily	
Maximum	>1600

SIGNATURE: _____