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

December 29, 2014

RE: MONTHLY MONITORING REPORT

Dear Charles:

Enclosed is the Monthly Monitoring Report for November 2014 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 20 days discharge to reclamation M-004, 5, 6 & 7 and land disposal M-003. There were 11 days of effluent discharge to Monitoring Location M-002. The required monitoring and water quality constituents that were tested and reported were in compliance in November 2014 other than the Acute C.Dubia testing.

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

The requirement for Nitrate as Nitrogen in the effluent is a monthly average of 10 mg/L. Two tests were conducted in November and were 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 November are as follows. Median was <1.8 and a Maximum of <1.8. Four samples were collected in the month of November and were in compliance.

Monthly River Monitoring was conducted in November.

Effluent discharge to location M-002 started on the 20th. Acute testing was conducted using Rainbow Trout and C.Dubia. Rainbow Trout had a 100% survival but C.Dubia had a 15% survival. The 2 follow up testing meeting the 14 day and 21 day deadline have been sent to the lab. The 14 day sample came back with a C.Dubia survival of 85% and a Rainbow Trout survival of 100%. The 21 day sample results are still pending.

A conference call took place between Charles, Greg Orsini and James Henry regarding corrections needed in the submitting reports. Those corrections are being applied to this reporting month. WWMF Upgrade Status: Kennedy/Jenks is working on the final draft. Once completed, the District will review and send back comments

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
MONITORING DATA

MONTH: NOVEMBER

YEAR: 2014

DATE	INFLUENT FLOW MG.D.	EFFLUENT FLOW MG.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	EFFLUENT MONITORING			SETTLABLE SOLIDS	3X5 TOTAL COLIFORM
					B.O.D. mg/L	NFR mg/L					AMMONIA	CL ₂ RES.	CL ₂ RES.		
1	0.864	1.019	725												
2	0.901	1.006	719												
3	0.817	0.636	977				6.9	15.2			38	7.4			<1.8
4	0.809	0.600	2377				7.1	16.6			36	5.7			
5	0.801	1.216	948				7	15.7			38	1.7			
6	0.820	1.379	970				7	16.5			36	4.0			
7	0.788	1.091	984		330	300	7.0	15.5	11	16	36	4.7		<0.1	
8	0.836	1.143	858												
9	0.855	1.271	911												
10	0.821	1.329	995				7.2	16.0			32	3.9			<1.8
11	0.844	1.462	1040				7.2	15.3			36	4.6			
12	0.807	1.567	1129				7	15.2			36	2.5			
13	0.840	1.348	1127				7	15.7			36	3.8			
14	0.864	1.063	814		300	250	7.1	15.6	15	10	38	3.9		<0.1	
15	0.866	1.153	814												
16	0.898	1.148	812				7.1	14.2			36	4.0			
17	0.829	1.196	983				7.1	13.8			36	4.1			<1.8
18	0.805	1.369	984				7.2	14.8			32	4.3			
19	0.858	1.376	977				7.1	14.4			36	5.5			
20	0.888	1.504	1327				7.2	13.9	12	12	34	5.3		<0.1	
21	0.890	1.490	1239		300	380	7.5	14.6				2.0			
22	1.071	1.764	1239				7.5	13.7				2.1			
23	0.976	1.579	1805				6.9	13.5			34	3.7			<1.8
24	0.901	0.856	906				7.0	13.4	14	8	34	8.6			
25	0.905	1.206	1323		340	370	7.4	14.8			32	1.4		<0.1	
26	0.887	1.892	1328				7.4	14.0				1.5			
27	0.889	1.899	1338				7.3	14.1				1.4			
28	0.829	1.902	1342				7.3	14.1				1.5			
29	0.980	1.909	1341				7.5	13.6				1.3			
30	0.964	1.714	1333												

MONTHLY TESTS			
DATE	TDS	AMMONIA	NITRATE
11/20/2014	330	35.0	ND
			BORON
			280

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

Quarterly Tests		Value in ug/l
Dichlorobromomethane		N/A
Bromochloromethane		N/A
Chlorodibromomethane		N/A
Chloroform		N/A

ACUTE TOXICITY	
DATE	% Survival
11/25/2014	100%
11/25/2014	15%

30 DAY AVERAGE

BOD mg/L	BOD LBS/DAY	BOD % Removal	NFR mg/L	NFR LBS/DAY	NFR % Removal
13	131	96	12	116	96

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

Total Coliform
Monthly
MEDIAN
<1.8
Daily
Maximum
<1.8

SIGNATURE

REMARKS: Retesting for Acute C. Dubia was conducted. The 14 and 21 day retests have been sent to the lab.

McKinleyville Community Services District

Wastewater Management Facility

Influent & Effluent Testing pH, Temperature, Ammonia, CL/Res Settleable Solids, BOD, NFR =

pH, mg/L, °C

NOVEMBER 2014

Date	INFLUENT			AMMONIA UNIONIZED			EFFLUENT			AMMONIA UNIONIZED			River			Coliform		BOD	NFR	
	pH	Temp	S.S	mg/L	NH3(mg/L)	BOD	NFR	pH	Temp	D.O.	S.S.	mg/L	NH3(mg/L)	NTU	CL/Res	CL/Res	3x5			
1																				
2	7.7	18.3		46	1.115			6.9	15.2	3.2		38.0	0.109	75.2	7.4		<1.8			
3	8.1	19.5		48	2.590			7.1	16.6	7.1		36.0	0.190	55.6	5.7					
4	7.9	20.4		44	1.796			7.0	15.7	3.4		38.0	0.131	70.5	1.7					
5	7.7	19.4		42	1.094			7.0	16.5	3.1		36.0	0.132	57.7	4.0					
6	7.8	19.8	31	48	1.582	330	300	7.0	15.5	3.7	<0.1	36.0	0.122	56.5	4.7			11	16	
7																				
8																				
9	8.0	20.0		44	1.515			7.2	16.0	4.6		32.0	0.282	50.6	3.9		<1.8			
10	8.4	19.1		50	5.504			7.2	15.3	3.7		36.0	0.222	49.9	4.6					
11	7.6	18.9		44	0.898			7.0	15.2	3.2		36.0	0.120	50.6	2.5					
12	7.7	19.6		48	1.270			7.0	15.7	3.0		36.0	0.124	55.6	3.8					
13	8.0	18.8	28	46	1.938	300	250	7.1	15.6	3.4	<0.1	38.0	0.185	48.8	3.9			15	10	
14																				
15																				
16	7.8	17.8		48	1.371			7.1	14.2	3.2		36.0	0.158	58.2	4.0		<1.8			
17	7.9	18.5		44	1.567			7.1	13.8	3.8		36.0	0.154	53.3	4.1					
18	8.1	18.9		40	2.356			7.2	14.8	4.5		32.0	0.189	51.6	4.3					
19	8.1	18.6		50	2.856			7.1	14.4	4.7		36.0	0.160	48.5	5.5	0.00				
20	7.9	18.5	34	48	1.710	300	380	7.2	13.9	5.1	<0.1	34.0	0.190	53.0	5.3	0.00		12	12	
21	7.9	18.0						7.5	14.6	5.8				41.2	2.0	0.00				
22	7.1	16.8						7.5	13.7	5.2				41.7	2.1	0.00				
23	8.0	18.1		44	1.761			6.9	13.5	3.7		34.0	0.086	52.6	3.7	0.00	<1.8			
24	7.8	18.2		44	1.283	340	370	7.0	13.4	4.0		34.0	0.098	41.3	8.6	0.00		14	8	
25	8.1	18.4	33	46	2.617			7.4	14.8	4.4	<0.1	32.0	0.275	44.7	1.4	0.00				
26	7.8	17.5						7.4	14.0	3.6				45.7	1.5	0.00				
27	7.2	17.1						7.3	14.1	3.7				45.7	1.4	0.00				
28	7.3	16.4						7.3	14.1	3.5				48.9	1.5	0.00				
29	7.6	17.0						7.5	13.6	4.1				51.8	1.3	0.00				
30																				
MEDIAN																			13	12
Average	7.8	18.5	32	46	1.935	318	325	7.2	14.8	4.1	<0.1	35.3	0.163	52.1	3.7	0.00	<1.8	13	12	
Maximum	8.4	20.4	34	50	5.504	340	380	7.5	16.6	7.1	<0.1	38.0	0.282	75.2	8.6	0.00	<1.8	15	16	
Minimum	7.1	16.4	28	40	0.898	300	250	6.9	13.4	3	<0.1	32.0	0.086	41.2	1.3	0.00	<1.8	11	8	

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

M-004
M-005
M-006

RIVER DILUTION

NOVEMBER 2014

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	0.864	1.019	725	1.019	0.000	0.000	0	0		0
2	0.901	1.006	719	1.006	0.000	0.000	0	0		0
3	0.817	0.636	977	0.388	0.248	0.000	0	0		0
4	0.809	0.600	2377		0.600	0.000	0	0		0
5	0.801	1.216	948		1.216	0.000	0	0		0
6	0.820	1.379	970		1.379	0.000	0	0		0
7	0.788	1.091	984	0.441	0.650	0.000	0	0		0
8	0.836	1.143	858	1.143	0.000	0.000	0	0		0
9	0.855	1.271	911	1.271	0.000	0.000	0	0		0
10	0.821	1.329	995	0.537	0.792	0.000	0	0		0
11	0.844	1.462	1040		1.462	0.000	0	0		0
12	0.807	1.567	1129		1.567	0.000	0	0		0
13	0.840	1.348	1127		1.348	0.000	0	0		0
14	0.864	1.063	814	0.635	0.428	0.000	0	0		0
15	0.866	1.153	814	1.153	0.000	0.000	0	0		0
16	0.898	1.148	812	1.148	0.000	0.000	0	0		0
17	0.829	1.196	983	0.463	0.733	0.000	0	0		0
18	0.805	1.369	984		1.369	0.000	0	0		0
19	0.858	1.376	977		1.376	0.000	0	0		0
20	0.888	1.504	1327		0.595	0.909	134	1773	395	2955
21	0.890	1.490	1409			1.490	240	3375	752	5626
22	1.071	1.764	1239			1.764	3460	42866	9550	71444
23	0.976	1.579	1805			1.579	133	2397	534	3995
24	0.901	0.856	906			0.856	443	4017	895	6695
25	0.905	1.206	1323			1.206	349	4623	1030	7705
26	0.887	1.892	1328			1.892	262	3483	776	5805
27	0.889	1.899	1338			1.899	214	2859	637	4765
28	0.829	1.902	1342			1.902	185	2487	554	4144
29	0.980	1.909	1341			1.909	262	3515	783	5858
30	0.964	1.714	1333			1.714	502	6688	1490	11147

[illegible]

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

NOVEMBER 2014

Dischrange 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
1	0.864	1.019	725		1.019					0.000	0.000
2	0.901	1.006	719		1.006					0.000	0.000
3	0.817	0.636	977		0.388	0.248				0.248	0.000
4	0.809	0.600	2377			0.331	0.059	0.135	0.075	0.600	0.000
5	0.801	1.216	948			0.704	0.070	0.255	0.187	1.216	0.000
6	0.820	1.379	970			0.825		0.360	0.194	1.379	0.000
7	0.788	1.091	984		0.441	0.396		0.165	0.089	0.650	0.000
8	0.836	1.143	858		1.143					0.000	0.000
9	0.855	1.271	911		1.271					0.000	0.000
10	0.821	1.329	995		0.537	0.445		0.225	0.122	0.792	0.000
11	0.844	1.462	1040			0.927		0.345	0.190	1.462	0.000
12	0.807	1.567	1129			1.157		0.218	0.192	1.567	0.000
13	0.840	1.348	1127			0.836		0.323	0.189	1.348	0.000
14	0.864	1.063	814		0.635	0.178		0.162	0.088	0.428	0.000
15	0.866	1.153	814		1.153					0.000	0.000
16	0.898	1.148	812		1.148					0.000	0.000
17	0.829	1.196	983		0.463	0.483		0.133	0.117	0.733	0.000
18	0.805	1.369	984			0.903		0.270	0.196	1.369	0.000
19	0.858	1.376	977			0.846		0.337	0.193	1.376	0.000
20	0.888	1.504	1327			0.353		0.157	0.085	0.595	0.909
21	0.890	1.490	1409							0.000	1.490
22	1.071	1.764	1239							0.000	1.764
23	0.976	1.579	1805							0.000	1.579
24	0.901	0.856	906							0.000	0.856
25	0.905	1.206	1323							0.000	1.206
26	0.887	1.892	1328							0.000	1.892
27	0.889	1.899	1338							0.000	1.899
28	0.829	1.902	1342							0.000	1.902
29	0.980	1.909	1341							0.000	1.909
30	0.964	1.714	1333							0.000	1.714
TOTAL	26.103	40.087		0.000	9.204	8.632	0.129	3.085	1.917	13.763	17.120
AVERAGE	0.870	1.336	1128	#DIV/0!	0.837	0.617	0.065	0.237	0.147	0.459	0.571
MAXIMUM	1.071	1.909	2377	0.000	1.271	1.157	0.070	0.360	0.196	1.567	1.909
MINIMUM	0.788	0.600	719	0.000	0.388	0.178	0.059	0.133	0.075	0.000	0.000
DAYS	30	30		0	11	14	2	13	13	14	11

DAYS WITH NO DISCHARGE = 0