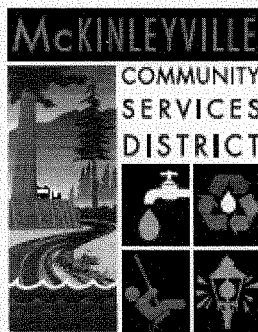


**PHYSICAL ADDRESS:**

1656 SUTTER ROAD  
McKINLEYVILLE, CA 95519

**MAILING ADDRESS:**

P.O. BOX 2037  
McKINLEYVILLE, CA 95519



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**MAIN OFFICE:**

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FAX: (707) 839-8456

**PARKS & RECREATION OFFICE:**

PHONE: (707) 839-9003  
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R.W.Q.C.B. NORTH COAST REGION  
5550 SKYLANE BLVD., SUITE A  
SANTA ROSA, CA 95403

June 20, 2017

**RE: MONTHLY MONITORING REPORT**

Dear Justin:

Enclosed is the Monthly Monitoring Report for May 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 13 days to Discharge Point 001 and 17 days to Discharge Points 002, 004 and 006. The required monitoring and water quality constituents that were tested and reported were in compliance in May.

The requirement for BOD is 45 mg/L, 604 lbs/day and 65% removal for the monthly average with four weekly tests in May that represent eleven criteria. The BOD results for May 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 May which represent three criteria. The TSS results for May 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 May 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 May are as follows. Median was <1.8 and a Maximum of 2. Five samples were collected in the month of May and were in compliance.

Monthly River Monitoring was conducted in May.

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.

On May 2<sup>nd</sup>, there was a CL2 exceedance at M-001 of 2.2. Notification requirement were followed and we were instructed to add it to the Cover letter for the May report. The problem was the automatic shut-off was triggered, which turned off the SO2 tank and went into alarm. The alarm was acknowledged by staff with a group of alarms without seeing the vacuum alarm created by the automatic shut-off. There was a long discussion with staff on how to prevent the issue in the future.

WWMF Upgrade Status: Clarifier "A" and "B" mechanical equipment is installed. The headworks and maintenance building are 95% completed. Piping from Mixed liquor to Aeration basin is being installed along with running wire. Aeration basin 2 is now lined and diffusers are being installed. Staff training on new equipment is in process. The rain has slowed the project down a little. Backfilling around the clarifiers is completed. 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 August 2017.

# McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY EFFLUENT DISCHARGE DISPOSAL

MAY 2017

Discharge Monitoring	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
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	1.175	1.396	980							0.000	1.396
2	1.160	1.331	984							0.000	1.33
3	1.139	1.223	856							0.000	1.223
4	1.118	1.214	854							0.000	1.214
5	1.105	1.230	923							0.000	1.230
6	1.139	1.242	882							0.000	1.242
7	1.186	1.232	871							0.000	1.232
8	1.109	0.370	866							0.000	0.370
9	1.082	0.000	0	Washed CCB						0.000	0.000
10	1.072	0.700	1376							0.000	0.700
11	1.080	1.564	1121							0.000	1.564
12	1.057	1.638	1284							0.000	1.638
13	1.098	1.638	1157							0.000	1.638
14	1.108	1.425	1144							0.000	1.425
15	1.061	0.582	1507		0.582					0.000	0.000
16	1.111	1.098	1492		1.098					0.000	0.000
17	1.082	0.908	872		0.315	0.593				0.593	0.000
18	1.051	1.035	879			1.035				1.035	0.000
19	1.014	1.004	870		0.390	0.614				0.614	0.000
20	1.015	0.844	594		0.844					0.000	0.000
21	1.081	0.838	590		0.838					0.000	0.000
22	1.035	0.936	1165		0.271	0.665				0.665	0.000
23	1.007	1.148	1013			1.004		0.144		1.148	0.000
24	0.996	1.193	1034			0.896		0.297		1.193	0.000
25	0.990	1.209	1239			0.993		0.216		1.209	0.000
26	0.968	1.040	909		0.466	0.574				0.574	0.000
27	0.944	0.803	564		0.803					0.000	0.000
28	0.934	0.799	562		0.799					0.000	0.000
29	1.031	0.797	560		0.797					0.000	0.000
30	0.986	0.915	964		0.311	0.604				0.604	0.000
31	0.960	1.155	1047			0.991		0.164		1.155	0.000
TOTAL	32.894	32.507		0.000	7.514	7.969	0.000	0.821	0.000	8.790	16.203
AVERAGE	1.061	1.049	941	0.000	0.578	0.797	0.000	0.205	0.000	0.284	0.523
MAXIMUM	1.186	1.638	1507	0.000	1.098	1.035	0.000	0.297	0.000	1.209	1.638
MINIMUM	0.934	0.000	0	0.000	0.000	0.574	0.000	0.144	0.000	0.000	0.000
DAYS	31	30		0	12	10	0	4	0	10	13
DAYS WITH NO DISCHARGE = 1											

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

M-004

RIVER DILUTION

M-005

M-006

MAY 2017

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	1.175	1.396	980			1.396	565	5539	1234	9232
2	1.160	1.331	984			1.331	469	4614	1028	7690
3	1.139	1.223	856			1.223	430	3681	820	6134
4	1.118	1.214	854			1.214	394	3362	749	5603
5	1.105	1.230	923			1.230	333	3075	685	5124
6	1.139	1.242	882			1.242	307	2711	604	4519
7	1.186	1.232	871			1.232	300	2617	583	4361
8	1.109	0.370	866			0.370	260	2249	501	3748
9	1.082	0.000	0	Washed CCB		0.000	0	2119	472	3531
10	1.072	0.700	1376			0.700	130	1782	397	2970
11	1.080	1.564	1121			1.564	166	1863	415	3105
12	1.057	1.638	1284			1.638	157	2011	448	3351
13	1.098	1.638	1157			1.638	310	3582	798	5970
14	1.108	1.425	1144			1.425	297	3402	758	5671
15	No Discharge to River					0.000	0	0		0
16						0.000	0	0		0
17						0.000	0	0		0
18						0.000	0	0		0
19						0.000	0	0		0
20						0.000	0	0		0
21						0.000	0	0		0
22						0.000	0	0		0
23						0.000	0	0		0
24						0.000	0	0		0
25						0.000	0	0		0
26						0.000	0	0		0
27						0.000	0	0		0
28						0.000	0	0		0
29						0.000	0	0		0
30						0.000	0	0		0
31						0.000	0	0		0

TOTAL	15.628	16.203		0.000	0.000	16.203				
AVERAGE	1.116	1.157	887	0.000	0.000	0.523	294	1374	678	2291
MAXIMUM	1.186	1.638	1376	0.000	0.000	1.638	565	5539	1234	9232
MINIMUM	1.057	0.000	0	0.000	0.000	0.000	0	0	397	0
DAYS	14	30	30	0	0					

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 18



McKINLEYVILLE COMMUNITY SERVICES DISTRICT  
WASTEWATER MANAGEMENT FACILITY  
MONITORING DATA

YEAR: 2017

MONTH: MAY

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	INFLUENT MONITORING		EFFLUENT MONITORING						3X5 TOTAL COLIFORM			
					B.O.D. mg/L	N.F.R. mg/L	pH	(C°) TEMP	B.O.D. mg/L	NFR mg/L	AMMONIA	CL <sub>2</sub> RES.		RIVER O <sub>2</sub> -RES	SETTLABLE SOLIDS	
1	1.175	1.396	980	1234			7.0	16.2			28	2.3	0.00		<1.8	
2	1.160	1.331	984	1028			6.9	16.9			26	2.2	0.00			
3	1.139	1.223	856	820			7.0	17.7			26	2.6	0.00			
4	1.118	1.214	854	749			6.9	17.5			24	2.6	0.00			
5	1.105	1.230	923	685	220	230	7.0	17.4	22	20	28	2.6	0.00	<0.1		
6	1.139	1.242	882	604			6.9	15.5			25	2.5	0.00			
7	1.186	1.232	871	583			6.9	15.0			22	2.2	0.00			
8	1.109	0.370	866	501			7.4	15.1			28	2.1	0.00		<1.8	
9	1.082	0.000	0	472			Washed CCB									
10	1.072	0.700	1376	397			7.1	15.7			32	2.7	0.00			
11	1.080	1.564	1121	415			6.7	15.8			28	1.3	0.00			
12	1.057	1.638	1284	448	280	210	6.9	16.0	14	24	28	2.5	0.00	<0.1		
13	1.098	1.638	1157	798			6.9	15.8			16	1.6	0.00			
14	1.108	1.425	1144	758			7.0	15.1			33	3.3	0.00			
15	1.061	0.582	1507	No River Discharge				7.1	17.3			28	3.6		2	
16	1.111	1.098	1492				6.8	16.3			30	2.5				
17	1.082	0.908	872				7.1	15.7			32	3.9				
18	1.051	1.035	879				7.0	16.0			26	2.1				
19	1.014	1.004	870		230	170	6.9	16.2	12	12	30	2.4		<0.1		
20	1.015	0.844	594													
21	1.081	0.838	590													
22	1.035	0.936	1165				6.8	16.7			30	3.5		<1.8		
23	1.007	1.148	1013				6.9	17.1			30	2.6				
24	0.996	1.193	1034				7.0	17.3			30	2.3				
25	0.990	1.209	1239				6.9	16.9			32	2.3				
26	0.968	1.040	909		260	270	7.0	17.3	18	7.6	32	3.0		<0.1		
27	0.944	0.803	564													
28	0.934	0.799	562													
29	1.031	0.797	560													
30	0.986	0.915	964				7.0	17.0			32	5.2		<1.8		
31	0.960	1.155	1047				7.0	17.1			32	4.8				

SPILLS:

None to report

DATE	MONTHLY TESTS			BORON
	TDS	AMMONIA	NITRATE	
5/12/2017	190	25.0	ND	170

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	N/A
Bromoform	N/A
Chlorodibromomethane	N/A
Chloroform	N/A

30 DAY AVERAGE

BOD mg/L	13	BOD LBS/DAY	138	BOD % Removal	95	NFR mg/L	20	NFR LBS/DAY	210	NFR % Removal	91
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ACUTE TOXICITY

DATE	% Survival
5/2/2017	100%
5/2/2017	100%

Rainbow Trout  
C. dubia

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

Total Coliform Monthly MEDIAN	<1.8
Daily Maximum	2

SIGNATURE:

Indicates Permit Exceedance

REMARKS: Stopped river discharge on May 14, 2017 and started Land Application.