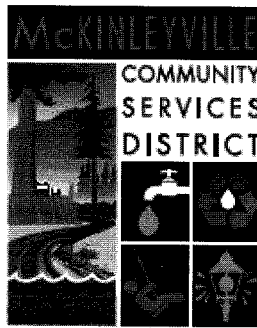


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5550 SKYLANE BLVD., SUITE A
SANTA ROSA, CA 95403

January 25, 2021

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for December 2020 for McKinleyville Community Services District Wastewater Management Facilities WDID NO. 1B82084OHUM, operating under Order Number R1-2018-0032.

The normal discharge of effluent was 31 days going to 002, 003, 004 and 006. The required monitoring and water quality constituents that were tested and reported was in compliance in December.

Effluent Limitations Parameters	Units	Average Monthly	Average Weekly	Avg. % Removal	Max Daily	Instant Max	Instant Min	Results
Monitoring Location EFF- 001								
BOD	mg/L	30	45	>85				Compliance
TSS	Mg/L	30	45	>85				Compliance
PH	s.u.					6.5	8.5	Compliance
Settleable Solids	ml/L	0.1			0.2			Compliance
Chlorine Total Residual	mg/L	0.1			0.2			Compliance
Carbon Tetrachloride	ug/L	.25			.75			N/A
Ammonia Impact Ratio	mg/L	1.0			1.0			N/A
Dichlorobromomethane	ug/L	.56			1.4			N/A
Monitoring Location LND-001, REC-001								
Nitrate		10						Compliance
PH		6.0- 9.0	6.0 - 9.0					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 240. The reported results for the month of December are as follows. Median was <1.8 and a Maximum of <1.8. Four samples were collected in the month of December and was in compliance.

Monthly River Monitoring was conducted in December.

MCKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: December 2020

DATE	EFFLUENT				EFFLUENT MONITORING				EFFLUENT MONITORING				RSW-001				RSW-002						
	FLOW M.G.D.	MAXIMUM GPM	RIVER DISCHG.	RIVER DISCHG.	BOD mg/L	TSS mg/L	PH	TEMP (C°)	BOD mg/L	TSS mg/L	CL RES	CL RES	RIVER CL RES	SETTLABLE SOLIDS	TOTAL COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.854	0.833	1104	N/A	N/A	N/A	7.2	12.3					2.1	N/A		15:00	6.6	11.5	11.3	15:10	6.7	10.9	11.2
2	0.864	0.848	1125	N/A	N/A	N/A	7.1	11.6					1.9	N/A									
3	0.852	0.889	1219	N/A	N/A	N/A	7.2	12.0					2.0	N/A									
4	0.841	0.763	1097	N/A	N/A	N/A	7.2	11.4	5.0	380			2.0	N/A	<0.1								
5	0.862	0.741	947	N/A	N/A	N/A	7.0	11.9					2.1	N/A									
6	0.907	0.742	841	N/A	N/A	N/A	7.0	12.2					2.3	N/A									
7	0.861	0.879	1256	N/A	N/A	N/A	7.2	12.2					2.0	N/A	<1.8								
8	0.840	0.798	1105	N/A	N/A	N/A	7.2	12.1					1.4	N/A		11:30	6.8	12.7	11.2	11:40	7.0	11.6	11.0
9	0.844	0.828	1096	N/A	N/A	N/A	7.3	13.0					1.4	N/A									
10	0.841	0.841	1186	N/A	N/A	N/A	7.3	12.1					1.4	N/A									
11	0.855	0.825	1044	N/A	N/A	N/A	7.1	11.7	6.2	310			1.3	N/A	<0.1								
12	0.864	0.845	1008	N/A	N/A	N/A	7.1	12.3					3.6	N/A									
13	0.970	0.833	984	N/A	N/A	N/A	7.1	12.9					3.5	N/A									
14	0.923	0.965	1214	N/A	N/A	N/A	7.2	12.3					2.9	N/A									
15	0.890	0.925	1127	N/A	N/A	N/A	7.2	13.2					2.7	N/A		15:40	6.6	12.6	11.3	15:50	6.8	11.8	11.2
16	0.955	0.901	1198	N/A	N/A	N/A	7.1	12.3					2.7	N/A									
17	0.971	0.994	1220	N/A	N/A	N/A	7.3	12.6					2.5	N/A									
18	0.916	0.991	1206	N/A	N/A	N/A	7.1	12.0	0.0	1.4			3.4	N/A									
19	0.875	1.032	1115	N/A	N/A	N/A	7.0	12.4					3.6	N/A									
20	0.894	0.926	1002	N/A	N/A	N/A	6.9	13.7					3.4	N/A									
21	0.883	1.097	1292	N/A	N/A	N/A	7.1	13.4					1.7	N/A									
22	0.871	1.050	1228	N/A	N/A	N/A	7.1	13.4					3.3	N/A									
23	0.863	0.967	1044	N/A	N/A	N/A	7.1	11.9	5.1	1.6			3.0	N/A	<0.1	11:30	6.6	12.6	11.4	11:40	6.7	12.0	10.5
24	0.887	1.116	1268	N/A	N/A	N/A	7.2	11.3					3.3	N/A									
25	0.850	1.109	1208	N/A	N/A	N/A	7.0	12.2					3.6	N/A									
26	0.947	1.106	1116	N/A	N/A	N/A	7.1	12.4					3.6	N/A									
27	0.927	1.109	1248	N/A	N/A	N/A	7.1	11.5					3.6	N/A									
28	0.882	1.172	1323	N/A	N/A	N/A	7.1	10.8					3.6	N/A		15:00	6.6	11.5	11.6	15:10	6.9	10.8	11.7
29	0.860	1.059	1239	N/A	N/A	N/A	7.2	11.4					2.3	N/A									
30	0.868	1.079	1282	N/A	N/A	N/A	7.1	11.0	6.7	1.6			2.5	N/A	<0.1								
31	0.880	1.026	1237	N/A	N/A	N/A	7.2	11.9					2.9	N/A									

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER											
Ammonia Nitride	Nitrate	Nitrite	Hardness	Phosphorus	Bar Phosphate	Calcium Hydroxide	Chloride	Chloride	Chloride	Chloride	Turbidity % Increase
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MONTHLY TESTS LND-001, REC-001 DISCHARGE TO PERC PONDS and LAND											
Organic Phosphorus	TSS	ALPHA-GALACTURONIC ACID	NITRATE NITRITE	SO4/PM	CHLORIDE/BORON						
1-10	260	ND	1-40	ND	44	57	270				
ADULT TOXICITY											
Date	Species	% Survival	Rainbow Trout	N/A							
MONTHLY TESTS RSW-001											
TSS	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD
66	67	ND	132	61	110	69	ND	146	0.2	0.2	0.2
MONTHLY TESTS RSW-002											
TSS	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD	BOD
35	35	99	99	99	99	99	99	99	99	99	99
EFF-001 REC-001 Quarterly Permit Exceedance											
Signature: _____											
Remarks: _____											

**McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL**

DECEMBER 2020

Discharge Monitoring DATE	INF-001 INFLUENT MGD	EFF-001 EFFLUENT MGD	MAXIMUM GPM	002 LND-001 N.POND MGD	002 LND-001 S.POND MGD	004 REC-001 FISCHER MGD UPPER	003 REC-001 FISCHER MGD LOWER	006 REC-001 PIALORSI MGD	005 REC-001 HILLER MGD	IRRGATE TOTAL MGD	001 EFF-001 RIVER MGD
1	0.854	0.833	1104			0.665		0.168		0.833	0.000
2	0.864	0.848	1125			0.667		0.181		0.848	0.000
3	0.852	0.889	1219			0.652	0.042	0.195		0.889	0.000
4	0.841	0.763	1097	0.386		0.325		0.052		0.377	0.000
5	0.862	0.741	947	0.741						0.000	0.000
6	0.907	0.742	841	0.742						0.000	0.000
7	0.861	0.879	1256	0.278		0.380	0.034	0.187		0.601	0.000
8	0.840	0.798	1105			0.643		0.155		0.798	0.000
9	0.844	0.828	1096			0.646		0.182		0.828	0.000
10	0.841	0.841	1186			0.643	0.038	0.160		0.841	0.000
11	0.855	0.825	1044	0.457		0.304		0.064		0.368	0.000
12	0.864	0.845	1008	0.845						0.000	0.000
13	0.970	0.833	984	0.833						0.000	0.000
14	0.923	0.965	1214	0.316		0.442	0.031	0.176		0.649	0.000
15	0.890	0.925	1127			0.736		0.189		0.925	0.000
16	0.955	0.901	1198			0.743		0.158		0.901	0.000
17	0.971	0.994	1220			0.780	0.036	0.178		0.994	0.000
18	0.916	0.991	1206	0.525		0.391		0.075		0.466	0.000
19	0.875	1.032	1115	1.032						0.000	0.000
20	0.894	0.926	1002	0.926						0.000	0.000
21	0.883	1.097	1292	0.375		0.497	0.035	0.190		0.722	0.000
22	0.871	1.050	1228			0.905		0.145		1.050	0.000
23	0.863	0.967	1044	0.581		0.386				0.386	0.000
24	0.887	1.116	1268	1.116						0.000	0.000
25	0.850	1.109	1208	1.109						0.000	0.000
26	0.947	1.106	1116	1.106						0.000	0.000
27	0.927	1.109	1248	1.109						0.000	0.000
28	0.882	1.172	1323	0.418		0.547	0.033	0.174		0.754	0.000
29	0.860	1.059	1239			0.908		0.151		1.059	0.000
30	0.868	1.079	1282			0.901		0.178		1.079	0.000
31	0.880	1.026	1237	0.697		0.329				0.329	0.000
TOTAL	27.397	29.289		13.592	0.000	9.805	0.249	2.958	0.000	15.697	0.000
AVERAGE	0.884	0.945	1148	0.000	0.000	0.000	0.000	0.000	0.000	0.506	0.000
MAXIMUM	0.971	1.172	1323	1.116	0.000	0.908	0.042	0.195	0.000	1.079	0.000
MINIMUM	0.840	0.741	841	0.278	0.000	0.304	0.031	0.052	0.000	0.000	0.000
DAYS	31	31		19	0	21	7	19	0	10	16
Lbs/Acre						0.735	0.000	0.000	0.000		

DAYS WITH NO DISCHARGE = 0