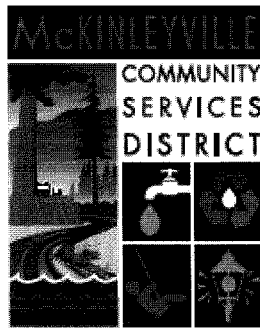


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McKINLEYVILLE, CA 95519**MAILING ADDRESS:**P.O. BOX 2037
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FAX: (707) 839-5964R.W.Q.C.B. NORTH COAST REGION
5550 SKYLANE BLVD., SUITE A
SANTA ROSA, CA 95403

January 15, 2022

RE: MONTHLY MONITORING REPORT

Dear Justin:

Enclosed is the Monthly Monitoring Report for December 2021 for McKinleyville Community Services District Wastewater Management Facilities WID NO. 1B82084OHUM, operating under Order Number R1-2018-0032.

The normal discharge of effluent was 31 days going to 001, 002 and 004. 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			Compliance
Ammonia Impact Ratio	mg/L	1.0			1.0			Compliance
Dichlorobromomethane	ug/L	.56			1.4			Compliance
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.

Started River Discharge on November 1st and had to return to land for the first week of December due to river cfs dropping.

Acute Toxicity Percent Survival. Minimum for any bioassay is 70% survival. Median for three or more consecutive bioassays at least 90% survival. Acute results were 100% and TST Pass for Rainbow trout.

MCKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: December 2021

DATE	EFFLUENT FLOW		EFFLUENT MAXIMUM		EFFLUENT RIVER		EFFLUENT MONITORING		EFFLUENT MONITORING		EFFLUENT MONITORING		EFFLUENT MONITORING		EFFLUENT MONITORING		EFFLUENT MONITORING						
	M.G.D.	M.G.D.	GPM	GPM	RIVER DILUTION	RIVER DILUTION	(C) TEMP	B.O.D. mg/L	TSS mg/L	C ₂ RES.	CL RES	RIVER CL RES	SETTLABLE SOLIDS	TOTAL COLIFORMS	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.	
1	0.805	0.619	707	707	220	140	7.1	13.9			2.1	0.00			13:30	7.2	14.5	11.5	13:40	7.1	14.7	10.5	
2	0.788	0.709	800	800	226	N/A	7.1	13.9			1.9	N/A											
3	0.783	0.758	886	886	220	N/A	7.0	13.8	2.4	5.2	1.1	N/A	<0.1										
4	0.802	0.766	831	831	217	N/A	7.1	13.7			1.6	N/A											
5	0.866	0.758	832	832	215	N/A	7.1	14.1			0.8	N/A											
6	0.819	0.751	776	776	215	N/A	7.1	13.5			2.1	N/A		<1.8									
7	0.829	0.908	977	977	223	N/A	7.2	14.0			1.3	N/A			15:20	6.9	12.1	12.9	15:30	7.5	12.6	11.0	
8	0.806	1.063	1120	1120	226	N/A	7.1	14.4			1.7	N/A											
9	0.803	1.061	1247	1247	217	N/A	7.0	12.6			0.8	N/A											
10	0.784	0.956	1154	1154	209	N/A	7.3	11.7	2.5	2.8	1.4	N/A	<0.1										
11	0.828	0.866	948	948	296	N/A	7.0	12.1			1.0	N/A											
12	0.917	0.859	854	854	404	N/A	7.2	12.7			0.9	N/A											
13	0.961	0.980	1077	1077	931	388	7.2	12.4			1.7	0.00											
14	0.909	1.058	986	986	2670	1215	7.1	12.3			2.1	0.00			15:10	6.8	9.7	11.2	15:20	7.1	10.7	11.3	
15	0.897	1.063	1020	1020	1300	572	7.2	11.4			1.8	0.00											
16	0.951	1.054	1006	1006	2270	1013	7.1	11.5			2.0	0.00											
17	0.891	1.059	1005	1005	1880	840	7.0	11.9	2.3	5.2	1.6	0.00	<0.1										
18	0.892	1.055	1098	1098	1590	656	7.1	10.6			1.8	0.00											
19	0.909	1.058	1070	1070	1400	587	7.0	11.4			2.2	0.00											
20	0.869	1.064	1100	1100	1270	518	7.1	11.9			2.1	0.00											
21	0.873	1.059	1119	1119	1270	509	7.0	11.9			2.1	0.00			15:30	6.9	11.2	11.0	15:40	7.0	11.0	10.6	
22	0.910	1.055	1102	1102	1800	733	7.1	12.7	0.0	3.2	2.1	0.00	<0.1										
23	0.988	1.045	954	954	4830	2273	7.1	13.4			2.2	0.00											
24	1.012	1.030	995	995	7660	3456	7.1	12.2			1.9	0.00											
25	0.952	1.032	959	959	6280	2939	7.2	12.1			2.0	0.00											
26	1.022	1.028	953	953	5240	2498	7.1	11.6			2.1	0.00											
27	1.076	1.020	938	938	6400	3063	7.1	11.8			1.7	0.00											
28	1.016	1.028	1036	1036	4020	1742	6.9	11.2			1.8	0.00											
29	1.034	1.022	969	969	3930	1820	7.0	11.4			1.7	0.00											
30	0.983	1.023	946	946	3200	1518	7.0	10.7	2.6	3.8	1.7	0.00											
31	0.991	1.027	949	949	2660	1258	7.0	11.2			1.7	0.00											

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Parameter	Ammonia Nitrate	Nitrite	Nitrate	Phosphate	Hardness	Calcium	Magnesium	Chloride	Sulfate	Total Solids	Calcium	Magnesium	Chloride	Sulfate	Total Solids	Calcium	Magnesium	Chloride	Sulfate	Total Solids	Calcium	Magnesium	Chloride	Sulfate	Total Solids	
0.20	2.5	1.2	1.2	7.7	125	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
MONTHLY TESTS LND-001, REC-001 DISCHARGE TO PERC PONDS and LAND																										
Organic Nitrogen	1.10	2.70	2.60	1.20	ND	31	43	260																		
AGUATE TOXICITY																										
Date	12/01/2021	Species	Rainbow Trout	151 Parts/Part	Pass																					
MONTHLY TESTS EFF-001 DISCHARGE TO RIVER																										
MONTHLY RIVER RSW-001												MONTHLY RIVER RSW-002														
TSS	95	70	ND	110	1.7	160	90	1.1	265	1.8																
BOD	2																									
BOD & TSS	30 DAY AVERAGE																									
BOD mg/L	2																									
TSS mg/L																										
BOD % Removal																										
TSS % Removal																										
EFF-001 REC-001 Quarterly Permit Exceedance																										
Signature: _____																										
Remarks: _____																										

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

DECEMBER 2021

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	IRRIGATE TOTAL MGD	001 EFF-001 RIVER MGD	
1	0.805	0.619	707		0.369					Shut down river at 1:00	0.000	0.250
2	0.788	0.709	800		0.709						0.000	0.000
3	0.783	0.758	886		0.758						0.000	0.000
4	0.802	0.766	831		0.766						0.000	0.000
5	0.866	0.758	832		0.758						0.000	0.000
6	0.819	0.751	776		0.751						0.000	0.000
7	0.829	0.908	977		0.504	0.404					0.404	0.000
8	0.806	1.063	1120			1.063					1.063	0.000
9	0.803	1.061	1247			1.061					1.061	0.000
10	0.784	0.956	1154			0.956					0.956	0.000
11	0.828	0.866	948		0.536	0.330					0.330	0.000
12	0.917	0.859	854		0.859						0.000	0.000
13	0.961	0.980	1077		0.322					Start river at 9:00 am.	0.000	0.658
14	0.909	1.058	986								0.000	1.058
15	0.897	1.063	1020								0.000	1.063
16	0.951	1.054	1006								0.000	1.054
17	0.891	1.059	1005								0.000	1.059
18	0.892	1.055	1088								0.000	1.055
19	0.909	1.058	1070								0.000	1.058
20	0.869	1.064	1100								0.000	1.064
21	0.873	1.059	1119								0.000	1.059
22	0.910	1.055	1102								0.000	1.055
23	0.988	1.045	954								0.000	1.045
24	1.012	1.030	995								0.000	1.030
25	0.952	1.032	959								0.000	1.032
26	1.022	1.028	953								0.000	1.028
27	1.076	1.020	938								0.000	1.020
28	1.016	1.028	1036								0.000	1.028
29	1.034	1.022	969								0.000	1.022
30	0.983	1.023	946								0.000	1.023
31	0.991	1.027	949								0.000	1.027
TOTAL	27.966	29.834		0.000	6.332	3.814	0.000	0.000	0.000		3.814	19.688
AVERAGE	0.902	0.962	981	0.000	0.000	0.000	0.000	0.000	0.000		0.123	0.635
MAXIMUM	1.076	1.064	1247	0.000	0.859	1.063	0.000	0.000	0.000		1.063	1.064
MINIMUM	0.783	0.619	707	0.000	0.322	0.330	0.000	0.000	0.000		0.000	0.000
DAYS	31	31		0	10	5	0	0	0		5	20

DAYS WITH NO DISCHARGE = 0

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

M-003

RIVER DILUTION

M-004

M-005

December 2021

DATE	INF-001 INFLUENT MGD	EFF-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-002 PERK PONDS MGD	M-006 IRRIGATE MGD	EFF-001 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	0.805	0.619	707	0.369	0.000	0.250	140	987	220	1646
2	0.788	0.709	800	0.709	0.000	0.000	127	1014	226	1691
3	0.783	0.758	886	0.758	0.000	0.000	111	987	220	1646
4	0.802	0.766	831	0.766	0.000	0.000	117	974	217	1623
5	0.866	0.758	832	0.758	0.000	0.000	116	965	215	1608
6	0.819	0.751	776	0.751	0.000	0.000	124	965	215	1608
7	0.829	0.908	977	0.504	0.404	0.000	102	1001	223	1668
8	0.806	1.063	1120		1.063	0.000	91	1014	226	1691
9	0.803	1.061	1247		1.061	0.000	78	974	217	1623
10	0.784	0.956	1154		0.956	0.000	81	938	209	1564
11	0.828	0.866	948	0.536	0.330	0.000	140	1329	296	2214
12	0.917	0.859	854	0.859	0.000	0.000	212	1813	404	3022
13	0.961	0.980	1077	0.322	0.000	0.658	388	4179	931	6965
14	0.909	1.058	986			1.058	1215	11985	2670	19974
15	0.897	1.063	1020			1.063	572	5835	1300	9725
16	0.951	1.054	1006			1.054	1013	10189	2270	16982
17	0.891	1.059	1005			1.059	840	8439	1880	14064
18	0.892	1.055	1088			1.055	656	7137	1590	11895
19	0.909	1.058	1070			1.058	587	6284	1400	10473
20	0.869	1.064	1100			1.064	518	5701	1270	9501
21	0.873	1.059	1119			1.059	509	5701	1270	9501
22	0.910	1.055	1102			1.055	733	8079	1800	13466
23	0.988	1.045	954			1.045	2273	21680	4830	36133
24	1.012	1.030	995			1.030	3456	34383	7660	57304
25	0.952	1.032	959			1.032	2939	28188	6280	46981
26	1.022	1.028	953			1.028	2468	23520	5240	39200
27	1.076	1.020	938			1.020	3063	28727	6400	47878
28	1.016	1.028	1036			1.028	1742	18044	4020	30074
29	1.034	1.022	969			1.022	1820	17640	3930	29400
30	0.983	1.023	946			1.023	1518	14364	3200	23939
31	0.991	1.027	949			1.027	1258	11940	2660	19899

TOTAL	27.966	29.834		6.332	3.814	19.688				
AVERAGE	0.902	0.962	981	0.000	0.000	0.635	936	9193	2048	15321
MAXIMUM	1.076	1.064	1247	0.859	1.063	1.064	3456	34383	7660	57304
MINIMUM	0.783	0.619	707	0.322	0.000	0.000	78	938	209	1564
DAYS	31	31		10	5	20				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0