McKinleyville Community Services District

ANNUAL WASTEWATER MANAGEMENT FACILITY MONITORING & DISCHARGE REPORT FOR 2023

NPDES No. CA0024490
WDID No. 1B820840HUM
ORDERNo. R1-2018-0032

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February 15, 2024

Regional Water Quality Control Board, North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, California 95403

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY ANNUAL REPORT FOR 2023

The McKinleyville Community Services District operates the wastewater collection, treatment, and disposal facilities that serve 6993 customer units in the unincorporated area of McKinleyville in Northern Humboldt County. The system operates under Order Number R1-2018-0032, National Pollution Discharge Elimination System (NPDES) Permit No. CA0024490, WDID No. 1B820840HUM issued by the California State Water Resources Control Board.

Table 1. Effluent Limitations for Discharge Point 001

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	30	45			
Total Suspended Solids	mg/L	30	45			
pH	s.u.				6.5	8.5
Settleable Matter	mg/L	0.1		0.2		
Chlorine Residual	mg/L	0.01		0.02		
Carbon Tetrachloride	ug/L	0.25		0.75		
Ammonia Impact Ratio	ug/L	1.0		1.0		
Dichlorobromomethane	ug/L	0.56		1.4		

Table 2. Effluent Limitations for Discharge Points 002 through 006

Parameter	Units	Effluent Limitations				
		Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand 5-day @ 20°C	mg/L	30	45			
Total Suspended Solids	mg/L	30	45			
pH	s.u.				6.5	8.5
Nitrate	mg/l	10				

Table 3. Summary of Monitoring Location Names and Descriptions.

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	INF-001	Influent at the headworks of the wastewater treatment facility (WWTF) prior to treatment.
	INT-001	Location for monitoring effluent from the chlorine contact chamber prior to dechlorination for purposes of measuring chlorine residual.
001	EFF-001	Location for monitoring effluent from the chlorine contact chamber following dechlorination and prior to discharge to the Mad River.
002 Decommissioned	LND-001	Location for monitoring effluent from the chlorine contact chamber prior to discharge to the Mad River percolation ponds.
003,004,005 and 006	REC-001	Location for monitoring treated effluent from the chlorine contact chamber prior to water recycling.
	RSW-001	In the Mad River at the Highway 101 Bridge.
	RSW-002	The North Bank of the Mad River as close as possible to Discharge Point 001 under the Hammond Trail bridge.
	GW-001	Well M-1, adjacent to Fischer Road.
	GW-002	Well M-2, on the southwest corner of the intersection of School and Fischer Roads.
	GW-006	Well M-6, south of W-9 and west of W-7.
	GW-007	Well M-7, in the upper portion of the Fischer parcel
	GW-009	Well M-9, adjacent to School Road.
	GW-019	Well within the West Pialorsi Ranch irrigation area (Historically GW-016).

Compliance:

Biochemical Oxygen Demand (BOD) Testing:

Discharge Point 001 requirements for BOD are 30 mg/L and 85% removal for the monthly average and a weekly average limit of 45 mg/L.
BOD limitations for 2023 were not exceeded.

Total Suspended Solids Testing (TSS):

Discharge Point 001 requirements for TSS are 30 mg/L and 85% removal for the monthly average and a weekly average of 45 mg/l.
TSS limitations for 2023 were not exceeded.

3x5 Total Coliform/ Disinfection Testing:

The effluent limitations for coliform 3x5 testing is a maximum monthly median, a most probable number (MPN) of 23 per 100 milliliters and a daily maximum of 240 MPN and are the same for Discharge Point 001- 006.
Coliform limitations for Monthly Median and Daily Maximum were in compliance in 2023

Settleable Matter Testing:

The effluent limitations for Settable Matter testing are listed in Table 1 and are for Discharge Point 001.
Settable Matter limitations for 2023 were not exceeded.

Chlorine Residual Testing:
The effluent limitations for Chlorine Residual testing are listed in Tables 1 for Discharge Point 001.
Chlorine limitations were not exceeded in 2023

Nitrate as Nitrogen Testing:

The effluent limitations for Nitrate as Nitrogen testing for Discharge Point 002 through 006 are 10 mg/l average monthly.
Nitrate as Nitrogen limitations for 2023 were not exceeded.

Carbon tetrachloride Testing:

The effluent limitations for the carbon tetrachloride testing for Discharge Point 001 are listed in Table 1. Carbon Tetrachloride limitations for 2023 were in compliance.

Dichlorobromomethane Testing:

The effluent limitations for Dichlorobromomethane for Discharge Point 001 are listed in Table 1. There were no exceedances in 2023.

Acute Toxicity Monitoring:

The acute toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour fish bioassay test conducted at EFF-001 in undiluted effluent. The sample is a 24-hour composite and is representative of the volume and quality of the discharge. Two test species were required, Ceriodaphnia dubia (C.dubia) and Rainbow Trout to determine the most sensitive species. After testing was conducted it was shown that there was no difference in both results. RWQCB agreed, along with the District, to select Rainbow Trout moving forward. The Regional Board also adopted the Test of Significant Toxicity (TST) method on a pass or fail.

The minimum compliance for any one test is 70% survival. The median for all bioassays during any calendar month is at least 90%. If the results of any 96-hour bioassay test are not in compliance a follow up test is required within 7 days of notification. The results for Acute Testing were in compliance in 2023.

Acute Toxicity Testing
Acute Testing remained in compliance throughout the calendar year for Rainbow Trout.

Table 3 Acute Monthly Testing for 2023

Date Collected	Test	Trout Survival	TST
1/19/2023	Monthly	100%	PASS
2/9/2023	Monthly	100%	PASS
3/9/2023	Monthly	100%	PASS
4/9/2023	Monthly	100%	PASS
5/16/2023	Monthly	100%	PASS
12/14/2023	Monthly	100%	PASS

Chronic Toxicity Monitoring:

The chronic toxicity monitoring bioassay criteria for Discharge Point 001 requires a 96-hour static renewal or 96-hour static non-renewal testing. The sample is a 24-hour composite and is representative of the volume and quality of the discharge. The sampling is conducted at EFF-001 WWMF Effluent. The test species for chronic testing is a vertebrate, the fathead minnow, Pimephales promelas (larval survival and growth test**)**, The District conducted chronic toxicity testing once annually as per the permit requirement. The testing results for Chronic Testing are detailed in Table 4

Table 4 Chronic Toxicity Testing for 2023

Dilution Water	Date	Test Species	
		Flathead minnow	
		% effect	TST
Diluted w/ Lab Control Water	January 2023	No Significant reductions	Pass

Accelerated Monitoring Requirements:

Accelerated monitoring is triggered when a Chronic test, analyzed using the TST approach, results in a Fail and the percent effect is >.50. No accelerated monitoring was required during 2023.

Other Projects and Commentary on the Treatment Process:

Treatment Process Trends:
The success of a particular process can be gauged by tracking the removal of BOD and TSS. Chart 1 demonstrates average BOD concentration in mg/L from 2013 through 2023. The average BOD in 2023 was 3.77 mg/L and continues to remain well below 30mg/L, our current limit.

Chart 1 Annual Average BOD Concentrations

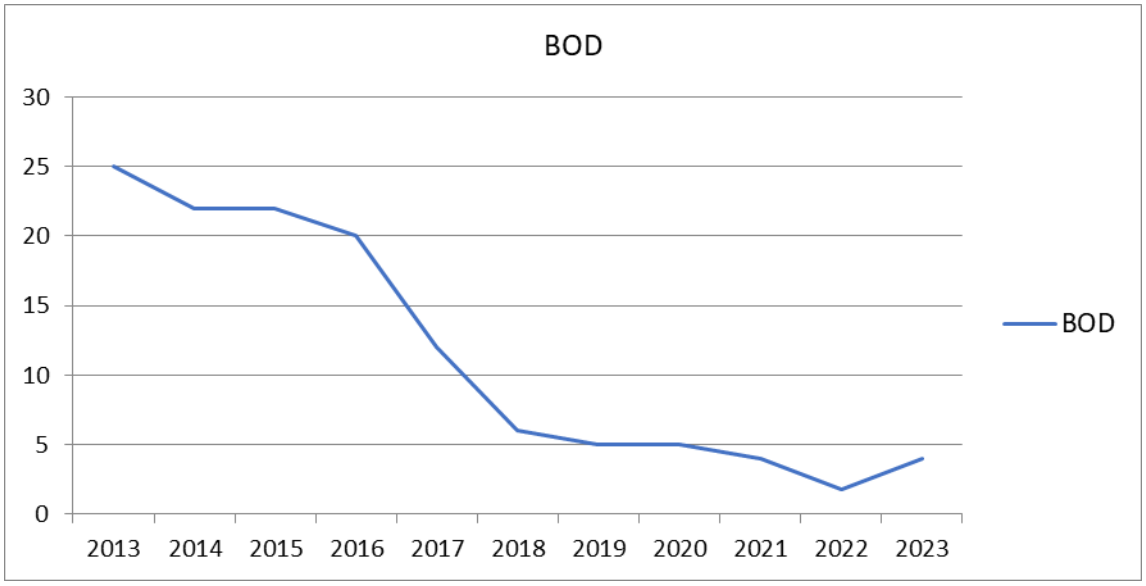


Chart 2 demonstrates average TSS concentration in mg/L from 2013 through 2023. The average TSS in 2023 was 1.6 mg/L and is well below the level it was in 2013. There was a trend increase in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one Facultative Pond instead of two, along with the additional aerators placed in Pond B.

Chart 2 Annual Average TSS Concentrations

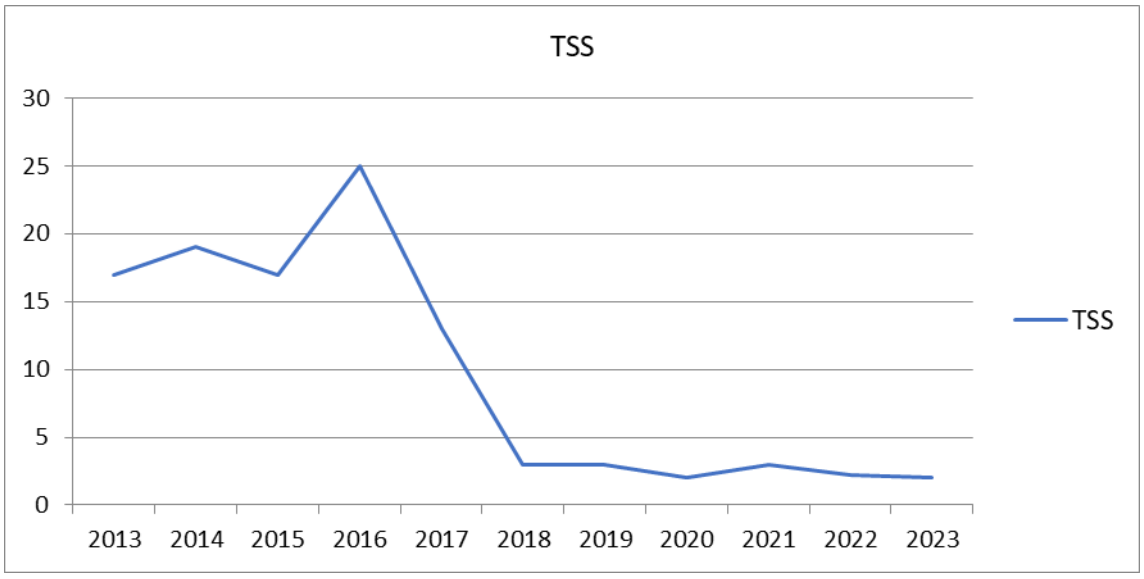
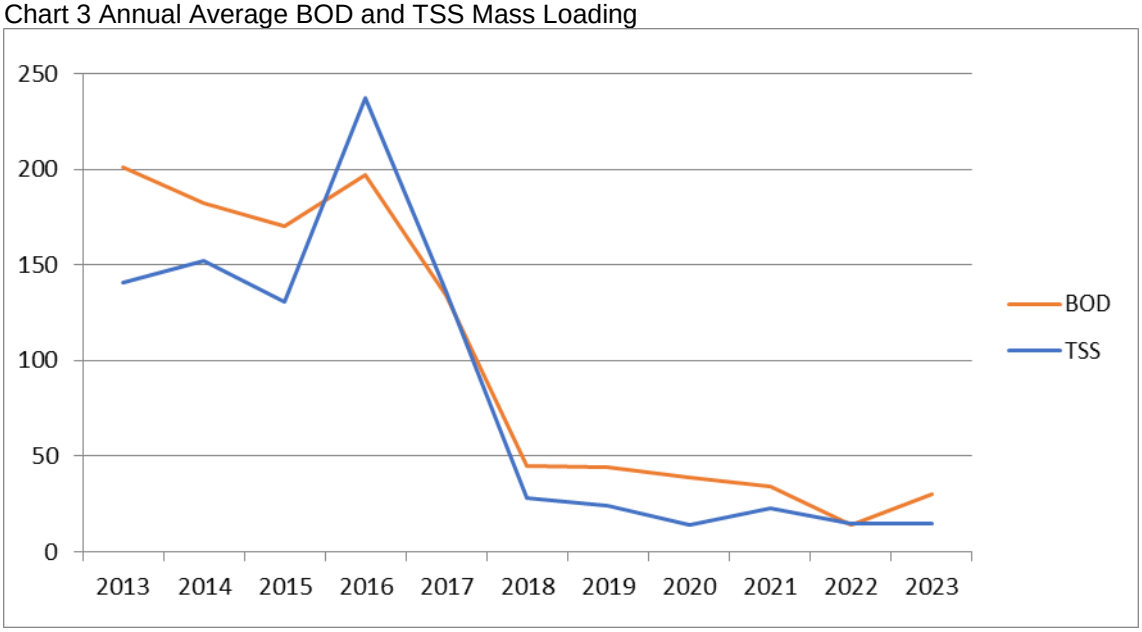


Chart 3 is the product of the flow and the concentration. It is identified as mass loading and measured in pounds per day.

Chart 3 Annual Average BOD and TSS Mass Loading



Charts 1-3 demonstrate the steady trend downward of BOD and TSS from 2013. The treatment marsh upgrade project was completed in 2006. The chart shows the drastic improvements from the performance of the treatment process after the marsh was installed. The efficiency of the process continues to trend down. The blip upward in BOD experience in 2012 but trended back down in 2014 and continued to trend down in 2015. There was another blip upward in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one Facultative Pond instead of two, along with the additional aerators placed in Pond B. In 2018, there is a drastic decrease due to the WWMF Upgrade project and quality of treatment.

Main Area of Concern:

Ammonia Removal

Due to the performance of the Treatment Plant Upgrade project, ammonia testing results have gone from results of low 30's to ND. As a result of the increased performance, the District experienced higher THM results in 2019 than the Discharge permit allows. The increase Dichlorobromomethane (DCBM) results are a by-product of using chlorine disinfection with an insufficient amount of Ammonia. A series of pilot studies were conducted to verify optimal performance by testing naturally occurring ammonia throughout the system and calculating the flow rate based on the ammonia residual needed.

As part of the treatment process, water is directed to the Biosolids Basin (BSB) through the Waste Activated Sludge (WAS) pump. The supernatant in the BSB has a natural occurring ammonia results of approximately 110 mg/l. The process change involves pumping the supernatant from the BSB to the Secondary Effluent pump vault using a small pump and discharge hose. The supernatant is then diluted with the effluent flow to add the adequate amount of ammonia needed. There were no DCBM exceedances in 2023.

Summary of Work Completed in 2023

Microrgrid Project:

A new Microgrid was installed at the WWMF in 2022. The microgrid will incorporate existing emergency diesel generation, and regular battery energy storage system and 0.5 MW of new solar photovoltaic (PV) assets to optimize electrical grid resiliency and deliver both financial and environmental benefits to the community. The solar panels were installed, along with the battery energy storage and have been in operation since 2022. This project will extend into 2024 as the District and Contractor are waiting on PG&E to inspect and accept the battery system.

Biosolids Removal:
During the treatment plant upgrade in 2017, a Biosolids Basin was installed to store the biosolids that are generated by the new treatment plant process. It was also projected by the design engineers that the Basin would need to be dredged every 4 to 7 years due to it filling up with biosolids. In 2022 the first dredging was performed. Synagro was contracted and completed the dredging, removing approximately 333 dry tons of solids between November 2021 and February 2022.

Report of Waste Discharge:
The Permittee shall file a Report of Waste Discharge as an application for reissuance of WDRs in accordance with Title 23, California Code of Regulations, (CCR) and an application for reissuance of a National Pollutant Discharge Elimination System (NPDES) permit no later than November 1, 2022. The ROWD was submitted in November 2022 and the current permit was scheduled to expire on October 31, 2023. The District is still waiting for the SWRCB to issue a new draft permit to review.

California Toxic Rule CTR:
The priority pollutant scan shall include California Toxics Rule (CTR) and Title 22 pollutants. CTR pollutants are those pollutants identified in the California Toxics Rule at 40 C.F.R. Section 131.38, and Title 22 pollutants are those pollutants for which DDW has established MCLs at Title 22, Division 4, Chapter 15, Sections 64431 (Inorganic Chemicals) and 64444 (Organic Chemicals) of the CCR. Duplicate analyses are not required for pollutants that are identified as CTR and Title 22 pollutants. The CTR scan was completed and submitted to the State Water Board in February 2022 and again in July of 2023 due to Lab not testing all constituents during the 2022 sampling.

Discharge Monitoring Report Quality Assurance (DMR-QA) Study Reports:
The Permittee shall ensure that the results of the DMR-QA Study or the most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board. The DMR-QA was completed in 2023 and a copy of the report was submitted to the State Water Board as a permit requirement.

20 Year Facilities Plan:
The final draft of the facilities plan was published in January 2012 and accepted by the District Board on February 1, 2012. The full document can be located at the District web site by following this link.
https://www.mckinleyvillecsd.com/files/5a493f670/MCSD+20-Year+Facilities+Plan.pdf

Names and General Responsibilities of Staff Working at the Facility

Name	Responsibilities
Patrick Kaspari	General Manger, Owner
James Henry	Chief Plant Operator/Quarterly and annual reporting
Erik Jones	Schedules maintenance and shifts at plant
Chris Jones	Shift Operator/ Runs daily routines
Kyle Stone	Shift Operator/ Runs daily routines
Drew Small	Lead Shift Operator/ daily routines, all sample collection and shipping, training
Seth Meynell	Operator in Training/ Equipment and site maintenance
Jordan Johnson	Shift Operator/ Equipment and site maintenance
Bill McBroome	Shift Operator/ Runs daily routines
Chris Reed	Equipment and site maintenance
Emergency Contacts	
Patrick Kaspari	707-599-5123
James Henry	707-496-2295
Drew Small	707-362-1800
Duty Cell Phone	707-601-9241

INDEX of EXHIBITS

Monthly/ Annual Averages for Pond Level

EXHIBIT J: Tabular Data PG 74

Monthly Total Electric, Cl_2, SO_2, Rain Gage and Water Use Data

EXHIBIT K: Tabular Data PG 75

Monthly Process Data Results

EXHIBIT L: Sludge Disposal and Handling Requirements PG 88

EXHIBIT M: Summary of Irrigation Compliance Report PG 89

Nitrogen Loading lbs/acre
Daily Irrigation Inspection Form

EXHIBIT N: Instrument Calibration Logs PG

EXHIBIT O: 94 Source Control PG 106

Summary of compliance and/or enforcement activities and survey results
General Prohibitions and Table presenting Local Limits
List of Industrial Users and Addresses
Non-Residential Survey Results

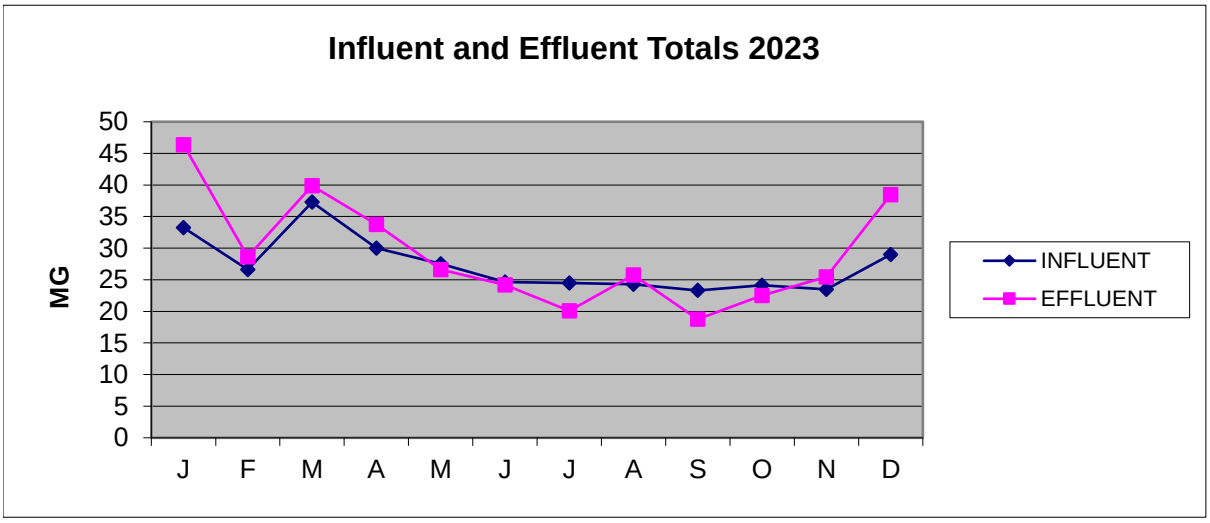
If you have any questions, please contact this office.

"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."

Patrick Kaspari, GENERAL MANAGER

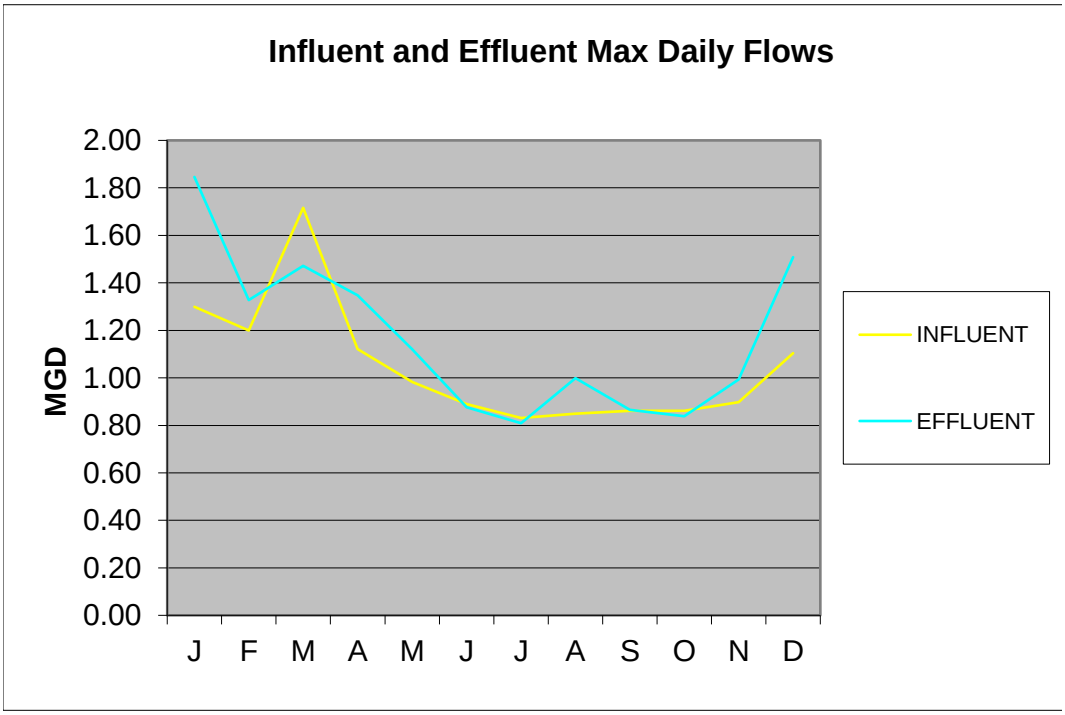
McKinleyville Community Services District
Wastewater Management Facility
Influent and Effluent Flows 2023
in MGD

DATE	INFLUENT	EFFLUENT	AVERAGE GPM
January	33.273	46.380	1350
February	26.622	28.653	1149
March	37.274	39.881	1338
April	30.027	33.740	1187
May	27.522	26.633	964
June	24.617	24.203	967
July	24.497	20.088	764
August	24.295	25.761	932
September	23.306	18.759	871
October	24.143	22.528	906
November	23.463	25.431	966
December	29.016	38.481	1275
Total	328.055	350.538	
Average	27.338	29.212	1056
Maximum	37.274	46.380	1350
Minimum	23.306	18.759	764



McKinleyville Community Services District
Wastewater Management Facility
Influent and Effluent Max Daily Flows in MGD
2023

DATE	INFLUENT	EFFLUENT	MAX GPM
January	1.299	1.846	1739
February	1.200	1.327	1288
March	1.716	1.472	2393
April	1.122	1.348	1467
May	0.983	1.120	1360
June	0.889	0.876	1876
July	0.831	0.809	1040
August	0.849	0.999	1146
September	0.861	0.865	1732
October	0.862	0.838	1123
November	0.898	0.993	1193
December	1.104	1.508	1691
Maximum	1.716	1.846	2393



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

JANUARY 2023

EXHIBIT B

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	**M-003** **M-004** **M-005** **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
1	1.081	1.843	1316			1.843	2643	34787	7750	57978
2	1.079	1.846	1309			1.846	1656	21680	4830	36133
3	1.011	1.842	1308			1.842	1246	16294	3630	27156
4	0.978	1.827	1328			1.827	909	12074	2690	20124
5	1.122	1.826	1313			1.826	1870	24553	5470	40921
6	1.059	1.818	1383			1.818	2295	31734	7070	52891
7	1.093	1.804	1340			1.804	1688	22623	5040	37704
8	1.286	1.800	1335			1.800	5312	70920	15800	118200
9	1.131	1.510	1739			1.510	2189	38063	8480	63439
10	1.094	1.424	1348			1.424	2467	33261	7410	55434
11	1.089	1.523	1399			1.523	2265	31690	7060	52816
12	1.062	1.533	1404			1.533	2670	37480	8350	62466
13	1.197	1.579	1448			1.579	2337	33844	7540	56407
14	1.273	1.577	1459			1.577	2624	38288	8530	63813
15	1.299	1.614	1507			1.614	3366	50721	11300	84535
16	1.245	1.603	1392			1.603	2554	35550	7920	59250
17	1.103	1.535	1412			1.535	1796	25361	5650	42268
18	1.114	1.484	1392			1.484	1412	19660	4380	32767
19	1.117	1.550	1428			1.550	1311	18717	4170	31196
20	1.046	1.444	1401			1.444	1134	15890	3540	26483
21	1.071	1.364	1313			1.364	998	13107	2920	21845
22	1.094	1.332	1334			1.332	801	10683	2380	17805
23	1.007	1.299	1285			1.299	702	9022	2010	15037
24	0.969	1.291	1320			1.291	588	7765	1730	12942
25	0.977	1.283	1293			1.283	531	6868	1530	11446
26	0.941	1.250	1236			1.250	505	6239	1390	10399
27	0.933	1.243	1268			1.243	450	5701	1270	9501
28	0.958	1.198	1273			1.198	420	5341	1190	8902
29	1.011	1.106	1230			1.106	412	5072	1130	8454
30	0.922	1.055	1145			1.055	412	4713	1050	7855
31	0.911	0.977	1194			0.977	370	4421	985	7369
TOTAL	33.273	46.380		0.000	0.000	46.380				
AVERAGE	1.073	1.496	1350	0.000	0.000	1.496	1611	22326	4974	37211
MAXIMUM	1.299	1.846	1739	0.000	0.000	1.846	5312	70920	15800	118200
MINIMUM	0.911	0.977	1145	0.000	0.000	0.977	370	4421	985	7369
DAYS	31	31		0	0	31				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT

WASTEWATER MANAGEMENT FACILITY

RIVER CFS - EFFLUENT FLOWS -

FEBRUARY 2023

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	**M-003** **M-004** **M-005** **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
1	0.913	0.952	1099			0.952	378	4152	925	6920
2	0.888	0.921	1084			0.921	359	3892	867	6486
3	0.885	0.887	1096			0.887	345	3779	842	6299
4	0.932	0.783	1081			0.783	342	3699	824	6164
5	1.051	1.027	1196			1.027	499	5970	1330	9950
6	0.962	1.066	1220			1.066	935	11401	2540	19002
7	0.917	1.057	1172			1.057	689	8079	1800	13466
8	0.908	1.041	1256			1.041	561	7047	1570	11745
9	0.889	1.023	1205			1.023	499	6015	1340	10025
10	0.894	1.007	1158			1.007	504	5835	1300	9725
11	0.930	1.032	1132			1.032	488	5521	1230	9202
12	0.978	0.968	1094			0.968	464	5072	1130	8454
13	0.900	0.960	1168			0.960	404	4713	1050	7855
14	0.903	0.986	1128			0.986	395	4453	992	7421
15	0.898	1.066	1203			1.066	365	4390	978	7316
16	0.888	0.935	1148			0.935	354	4062	905	6770
17	0.854	0.880	1112			0.880	355	3950	880	6583
18	0.873	0.798	1131			0.798	340	3847	857	6411
19	0.889	0.817	1030			0.817	358	3685	821	6142
20	0.890	0.808	979			0.808	364	3564	794	5940
21	0.866	0.900	1052			0.900	333	3501	780	5835
22	0.975	1.105	1168			1.105	354	4138	922	6897
23	1.025	1.213	1129			1.213	441	4982	1110	8304
24	1.031	1.267	1257			1.267	396	4982	1110	8304
25	1.034	1.260	1288			1.260	397	5117	1140	8528
26	1.103	1.255	1202			1.255	463	5566	1240	9276
27	1.146	1.312	1145			1.312	761	8708	1940	14513
28	1.200	1.327	1241			1.327	1128	14004	3120	23341
TOTAL	26.622	28.653		0.000	0.000	28.653				
AVERAGE	0.951	1.023	1149	0.000	0.000	1.023	474	5504	1226	9174
MAXIMUM	1.200	1.327	1288	0.000	0.000	1.327	1128	14004	3120	23341
MINIMUM	0.854	0.783	979	0.000	0.000	0.783	333	3501	780	5835
DAYS	28	28		0	0	28				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT

WASTEWATER MANAGEMENT FACILITY

MARCH 2023

RIVER CFS - EFFLUENT FLOWS -

M-003
M-004
M-005
M-006

RIVER DILUTION

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	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
1	1.150	1.326	1269			1.326	1001	12703	2830	21171
2	1.074	1.301	1242			1.301	636	7900	1760	13167
3	1.038	1.269	1294			1.269	493	6374	1420	10623
4	1.131	1.270	1169			1.270	526	6149	1370	10249
5	1.261	1.341	1208			1.341	869	10503	2340	17506
6	1.161	1.345	1364			1.345	763	10414	2320	17356
7	1.173	1.373	1361			1.373	663	9022	2010	15037
8	1.248	1.425	1280			1.425	936	11985	2670	19974
9	1.217	1.406	1334			1.406	740	9875	2200	16458
10	1.291	1.455	1228			1.455	2606	32004	7130	53340
11	1.235	1.426	1303			1.426	1750	22802	5080	38003
12	1.239	1.297	1313			1.297	1446	18987	4230	31645
13	1.612	0.963	2393			0.963	1913	45784	10200	76306
14	1.716	0.563	2101			0.563	5982	125681	28000	209468
15	1.434	1.039	1519			1.039	6619	100545	22400	167574
16	1.291	1.283	1142			1.283	4048	46233	10300	77054
17	1.214	1.425	1245			1.425	2592	32273	7190	53788
18	1.191	1.453	1295			1.453	2010	26034	5800	43390
19	1.322	1.472	1280			1.472	1743	22308	4970	37181
20	1.226	1.430	1275			1.430	2436	31061	6920	51769
21	1.159	1.351	1303			1.351	2001	26079	5810	43465
22	1.115	1.310	1245			1.310	1749	21770	4850	36283
23	1.111	1.283	1282			1.283	1537	19705	4390	32842
24	1.085	1.275	1178			1.275	1623	19121	4260	31869
25	1.088	1.264	1249			1.264	1326	16563	3690	27605
26	1.139	1.261	1261			1.261	1118	14094	3140	23490
27	1.063	1.246	1288			1.246	917	11805	2630	19675
28	1.132	1.256	1174			1.256	979	11491	2560	19151
29	1.088	1.263	1238			1.263	1403	17371	3870	28951
30	1.045	1.260	1348			1.260	1129	15216	3390	25361
31	1.025	1.250	1307			1.250	996	13017	2900	21695
TOTAL	37.274	39.881		0.000	0.000	39.881				
AVERAGE	1.202	1.286	1338	0.000	0.000	1.286	1760	24996	5569	41660
MAXIMUM	1.716	1.472	2393	0.000	0.000	1.472	6619	125681	28000	209468
MINIMUM	1.025	0.563	1142	0.000	0.000	0.563	493	6149	1370	10249
DAYS	31	31		0	0	31				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY

APRIL 2023

RIVER CFS - EFFLUENT FLOWS -

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	**M-003** **M-004** **M-005** **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
1	1.036	1.243	1270			1.243	922	11715	2610	19525
2	1.122	1.248	1292			1.248	945	12209	2720	20348
3	1.054	1.258	1289			1.258	1017	13107	2920	21845
4	1.016	1.159	1346			1.159	884	11895	2650	19825
5	0.999	0.513	1120			0.513	918	10279	2290	17131
6	0.995	1.166	1126			1.166	829	9336	2080	15560
7	1.023	1.326	1325			1.326	759	10054	2240	16757
8	1.016	1.348	1442			1.348	1037	14947	3330	24912
9	1.020	1.332	1467			1.332	967	14184	3160	23640
10	1.035	1.291	1334			1.291	1094	14588	3250	24313
11	1.102	1.275	1185			1.275	1799	21321	4750	35535
12	1.054	1.233	1169			1.233	1455	17012	3790	28353
13	1.006	1.208	1200			1.208	1137	13645	3040	22742
14	0.990	1.185	1210			1.185	927	11222	2500	18703
15	0.986	1.167	1184			1.167	807	9561	2130	15935
16	1.036	1.153	1188			1.153	748	8887	1980	14812
17	1.020	1.153	1206			1.153	689	8304	1850	13840
18	1.029	1.186	1153			1.186	845	9740	2170	16234
19	1.012	1.188	1162			1.188	738	8573	1910	14289
20	0.988	1.170	1208			1.170	632	7631	1700	12718
21	0.965	1.161	1232			1.161	550	6778	1510	11296
22	0.986	1.155	1154			1.155	618	7137	1590	11895
23	1.040	1.152	1163			1.152	691	8035	1790	13391
24	0.963	1.159	1243			1.159	668	8304	1850	13840
25	0.936	1.149	1235			1.149	571	7047	1570	11745
26	0.922	0.979	1171			0.979	560	6553	1460	10922
27	0.906	0.734	1054			0.734	669	7047	1570	11745
28	0.898	0.744	785			0.744	949	7451	1660	12418
29	0.908	0.816	813			0.816	922	7496	1670	12493
30	0.964	0.889	889			0.889	747	6643	1480	11072
TOTAL	30.027	33.740		0.000	0.000	33.740				
AVERAGE	1.001	1.125	1187	0.000	0.000	1.125	870	10357	2307	17261
MAXIMUM	1.122	1.348	1467	0.000	0.000	1.348	1799	21321	4750	35535
MINIMUM	0.898	0.513	785	0.000	0.000	0.513	550	6553	1460	10922
DAYS	30	30		0	0	30				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY

MAY 2023

RIVER CFS - EFFLUENT FLOWS -

DATE	INF-001 INFLUENT MGD	EFF-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-002 PERK PONDS MGD	M-003 M-004 M-005 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
1	0.956	1.007	1015			1.007	553	5611	1250	9351
2	0.932	1.089	1114			1.089	459	5117	1140	8528
3	0.915	1.120	1145			1.120	338	3865	861	6441
4	0.911	0.794	1051			0.794	342	3591	800	5985
5	0.878	0.815	997			0.815	343	3420	762	5701
6	0.931	0.916	874			0.916	429	3752	836	6254
7	0.983	1.010	1025			1.010	407	4174	930	6957
8	0.963	1.113	1151			1.113	336	3865	861	6441
9	0.929	0.993	1184			0.993	390	4623	1030	7705
10	0.919	0.850	1108			0.850	364	4031	898	6718
11	0.896	0.892	1070			0.892	343	3672	818	6119
12	0.890	0.849	1207	Land	0.405	0.444	283	3420	762	5701
13	0.902	0.642	705		0.642	0.000	0	0		0
14	0.932	0.677	754		0.677	0.000	0	0		0
15	0.894	0.845	948		0.845	0.000	0	0		0
16	0.872	0.849	959		0.849	0.000	0	0		0
17	0.879	0.830	926		0.830	0.000	0	0		0
18	0.863	0.827	910		0.827	0.000	0	0		0
19	0.842	0.857	920		0.857	0.000	0	0		0
20	0.871	0.741	752		0.741	0.000	0	0		0
21	0.915	0.739	812		0.739	0.000	0	0		0
22	0.871	0.846	933		0.846	0.000	0	0		0
23	0.857	0.833	908		0.833	0.000	0	0		0
24	0.845	0.844	905		0.844	0.000	0	0		0
25	0.826	0.832	896		0.832	0.000	0	0		0
26	0.832	0.828	1360		0.828	0.000	0	0		0
27	0.820	0.758	772		0.758	0.000	0	0		0
28	0.827	0.758	804		0.758	0.000	0	0		0
29	0.896	0.764	858		0.764	0.000	0	0		0
30	0.845	0.866	908		0.866	0.000	0	0		0
31	0.830	0.849	907		0.849	0.000	0	0		0
TOTAL	27.522	26.633		0.000	15.590	11.043				
AVERAGE	0.888	0.859	964	0.000	0.000	0.356	148	1585	912	2642
MAXIMUM	0.983	1.120	1360	0.000	0.866	1.120	553	5611	1250	9351
MINIMUM	0.820	0.642	705	0.000	0.405	0.000	0	0	762	0
DAYS	31	31		0	20	12				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 19

McKINLEYVILLE COMMUNITY SERVICES DISTRICT

WASTEWATER MANAGEMENT FACILITY

DECEMBER 2023

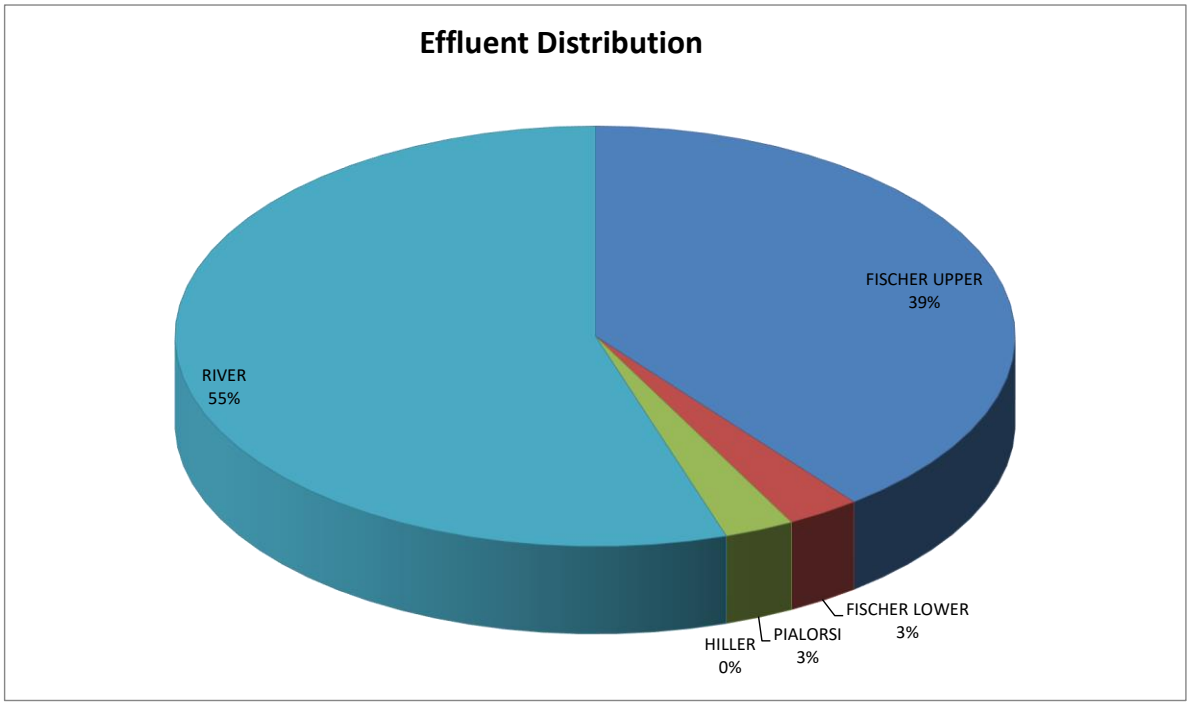
RIVER CFS - EFFLUENT FLOWS -

DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	EFFLUENT MAXIMUM GPM	**M-002** PERK PONDS MGD	**M-003** **M-004** **M-005** **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
1	0.789	1.012	1040	Land	1.012	0.000	0	0		0
2	1.015	0.924	894		0.924	0.000	0	0		0
3	1.104	0.894	1123		0.894	0.000	0	0		0
4	0.945	0.971	1006		0.971	0.000	0	0		0
5	0.892	0.974	971		0.974	0.000	0	0		0
6	0.974	1.409	1691	River		1.409	287	4848	1080	8079
7	1.027	1.426	1489			1.426	1004	14947	3330	24912
8	0.944	1.508	1470			1.508	944	13870	3090	23116
9	0.923	1.374	1332			1.374	607	8079	1800	13466
10	0.951	1.305	1284			1.305	440	5656	1260	9426
11	0.878	1.334	1354			1.334	304	4116	917	6860
12	0.853	1.252	1313			1.252	259	3398	757	5663
13	0.847	1.332	1398			1.332	203	2832	631	4721
14	0.831	1.200	1237			1.200	213	2639	588	4399
15	0.830	1.282	1303			1.282	179	2339	521	3898
16	0.841	1.177	1260			1.177	169	2128	474	3546
17	0.914	1.202	1362			1.202	143	1948	434	3247
18	0.924	1.282	1340			1.282	286	3838	855	6396
19	1.082	1.349	1241			1.349	673	8349	1860	13915
20	1.094	1.397	1283			1.397	1658	21276	4740	35460
21	1.004	1.414	1426			1.414	844	12029	2680	20049
22	0.978	1.322	1292			1.322	608	7855	1750	13092
23	0.959	1.299	1347			1.299	450	6060	1350	10099
24	0.947	1.220	1243			1.220	401	4982	1110	8304
25	0.882	1.257	1287			1.257	329	4237	944	7062
26	0.886	1.184	1197			1.184	302	3618	806	6030
27	0.901	1.220	1273			1.220	261	3326	741	5543
28	0.881	1.177	1182			1.177	363	4296	957	7159
29	0.897	1.210	1323			1.210	322	4264	950	7107
30	1.027	1.271	1235			1.271	701	8663	1930	14438
31	0.996	1.303	1324			1.303	1020	13511	3010	22518
TOTAL	29.016	38.481		0.000	4.775	33.706				
AVERAGE	0.936	1.241	1275	0.000	0.000	1.087	418	5584	1483	9307
MAXIMUM	1.104	1.508	1691	0.000	1.012	1.508	1658	21276	4740	35460
MINIMUM	0.789	0.894	894	0.000	0.894	0.000	0	0	434	0
DAYS	31	31		0	5	26				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 5

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL TOTALS 2023

Dischrange Monitoring DATE	**M-INF** INFLUENT MGD	**M-001** EFFLUENT MGD	**004 M-005** FISCHER MGD UPPER	**003 M-004** FISCHER MGD LOWER	**006 M-007** PIALORSI MGD	**005 M-006** HILLER MGD	IRRGATE TOTAL MGD	**001 M-002** RIVER MGD
JANUARY	33.3	46.4	0.0	0.0	0.0	0.0	0.0	46.4
FEBRUARY	26.6	28.7	0.0	0.0	0.0	0.0	0.0	28.7
MARCH	37.3	39.9	0.0	0.0	0.0	0.0	0.0	39.9
APRIL	30.0	33.7	0.0	0.0	0.0	0.0	0.0	33.7
MAY	27.5	26.6	12.9	1.6	1.0	0.0	15.5	11.0
JUNE	24.6	24.2	20.9	2.0	1.2	0.0	24.3	0.0
JULY	24.5	20.1	19.8	0.1	0.2	0.0	20.1	0.0
AUGUST	24.3	25.8	21.3	3.0	1.4	0.0	25.8	0.0
SEPTEMBER	23.3	18.8	15.9	1.6	1.2	0.0	18.8	0.0
OCTOBER	24.1	22.5	19.1	1.5	2.0	0.0	22.4	0.0
NOVEMBER	23.5	25.4	23.3	0.0	2.2	0.0	25.5	0.0
DECEMBER	29.0	38.5	4.9	0.0	0.3	0.0	5.1	33.3
Totals	328.1	350.5	138.1	9.9	9.4	0.0	157.5	193.0



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL JANUARY 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	1.081	1.843	1316	Decomissioned Perc Ponds						0.000	1.843
2	1.079	1.846	1309							0.000	1.846
3	1.011	1.842	1308							0.000	1.842
4	0.978	1.827	1328							0.000	1.827
5	1.122	1.826	1313							0.000	1.826
6	1.059	1.818	1383							0.000	1.818
7	1.093	1.804	1340							0.000	1.804
8	1.286	1.800	1335							0.000	1.800
9	1.131	1.510	1739							0.000	1.510
10	1.094	1.424	1348							0.000	1.424
11	1.089	1.523	1399							0.000	1.523
12	1.062	1.533	1404							0.000	1.533
13	1.197	1.579	1448							0.000	1.579
14	1.273	1.577	1459							0.000	1.577
15	1.299	1.614	1507							0.000	1.614
16	1.245	1.603	1392							0.000	1.603
17	1.103	1.535	1412							0.000	1.535
18	1.114	1.484	1392							0.000	1.484
19	1.117	1.550	1428							0.000	1.550
20	1.046	1.444	1401							0.000	1.444
21	1.071	1.364	1313							0.000	1.364
22	1.094	1.332	1334							0.000	1.332
23	1.007	1.299	1285							0.000	1.299
24	0.969	1.291	1320							0.000	1.291
25	0.977	1.283	1293							0.000	1.283
26	0.941	1.250	1236							0.000	1.250
27	0.933	1.243	1268							0.000	1.243
28	0.958	1.198	1273							0.000	1.198
29	1.011	1.106	1230							0.000	1.106
30	0.922	1.055	1145							0.000	1.055
31	0.911	0.977	1194							0.000	0.977
TOTAL	33.273	46.380		0.000	0.000	0.000	0.000	0.000	0.000	0.000	46.380
AVERAGE	1.073	1.496	1350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.496
MAXIMUM	1.299	1.846	1739	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.846
MINIMUM	0.911	0.977	1145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.977
DAYS	31	31		0	0	0	0	0	0	0	31

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL February 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.913	0.952	1099	Decomissioned Perc Ponds						0.000	0.952
2	0.888	0.921	1084							0.000	0.921
3	0.885	0.887	1096							0.000	0.887
4	0.932	0.783	1081							0.000	0.783
5	1.051	1.027	1196							0.000	1.027
6	0.962	1.066	1220							0.000	1.066
7	0.917	1.057	1172							0.000	1.057
8	0.908	1.041	1256							0.000	1.041
9	0.889	1.023	1205							0.000	1.023
10	0.894	1.007	1158							0.000	1.007
11	0.930	1.032	1132							0.000	1.032
12	0.978	0.968	1094							0.000	0.968
13	0.900	0.960	1168							0.000	0.960
14	0.903	0.986	1128							0.000	0.986
15	0.898	1.066	1203							0.000	1.066
16	0.888	0.935	1148							0.000	0.935
17	0.854	0.880	1112							0.000	0.880
18	0.873	0.798	1131							0.000	0.798
19	0.889	0.817	1030							0.000	0.817
20	0.890	0.808	979							0.000	0.808
21	0.866	0.900	1052							0.000	0.900
22	0.975	1.105	1168							0.000	1.105
23	1.025	1.213	1129							0.000	1.213
24	1.031	1.267	1257							0.000	1.267
25	1.034	1.260	1288							0.000	1.260
26	1.103	1.255	1202							0.000	1.255
27	1.146	1.312	1145							0.000	1.312
28	1.200	1.327	1241							0.000	1.327
TOTAL	26.622	28.653		0.000	0.000	0.000	0.000	0.000	0.000	0.000	28.653
AVERAGE	0.951	1.023	1149	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.023
MAXIMUM	1.200	1.327	1288	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.327
MINIMUM	0.854	0.783	979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.783
DAYS	28	28		0	0	0	0	0	0	0	28

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL March 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	1.150	1.326	1269	Decomissioned Perc Ponds						0.000	1.326
2	1.074	1.301	1242							0.000	1.301
3	1.038	1.269	1294							0.000	1.269
4	1.131	1.270	1169							0.000	1.270
5	1.261	1.341	1208							0.000	1.341
6	1.161	1.345	1364							0.000	1.345
7	1.173	1.373	1361							0.000	1.373
8	1.248	1.425	1280							0.000	1.425
9	1.217	1.406	1334							0.000	1.406
10	1.291	1.455	1228							0.000	1.455
11	1.235	1.426	1303							0.000	1.426
12	1.239	1.297	1313							0.000	1.297
13	1.612	0.963	2393							0.000	0.963
14	1.716	0.563	2101							0.000	0.563
15	1.434	1.039	1519							0.000	1.039
16	1.291	1.283	1142							0.000	1.283
17	1.214	1.425	1245							0.000	1.425
18	1.191	1.453	1295							0.000	1.453
19	1.322	1.472	1280							0.000	1.472
20	1.226	1.430	1275							0.000	1.430
21	1.159	1.351	1303							0.000	1.351
22	1.115	1.310	1245							0.000	1.310
23	1.111	1.283	1282							0.000	1.283
24	1.085	1.275	1178							0.000	1.275
25	1.088	1.264	1249							0.000	1.264
26	1.139	1.261	1261							0.000	1.261
27	1.063	1.246	1288							0.000	1.246
28	1.132	1.256	1174							0.000	1.256
29	1.088	1.263	1238							0.000	1.263
30	1.045	1.260	1348							0.000	1.260
31	1.025	1.250	1307							0.000	1.250
TOTAL	37.274	39.881		0.000	0.000	0.000	0.000	0.000	0.000	0.000	39.881
AVERAGE	1.202	1.286	1338	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.286
MAXIMUM	1.716	1.472	2393	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.472
MINIMUM	1.025	0.563	1142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.563
DAYS	31	31		0	0	0	0	0	0	31	31

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL April 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	1.036	1.243	1270	Decomissioned Perc Ponds						0.000	1.243
2	1.122	1.248	1292							0.000	1.248
3	1.054	1.258	1289							0.000	1.258
4	1.016	1.159	1346							0.000	1.159
5	0.999	0.513	1120							0.000	0.513
6	0.995	1.166	1126							0.000	1.166
7	1.023	1.326	1325							0.000	1.326
8	1.016	1.348	1442							0.000	1.348
9	1.020	1.332	1467							0.000	1.332
10	1.035	1.291	1334							0.000	1.291
11	1.102	1.275	1185							0.000	1.275
12	1.054	1.233	1169							0.000	1.233
13	1.006	1.208	1200							0.000	1.208
14	0.990	1.185	1210							0.000	1.185
15	0.986	1.167	1184							0.000	1.167
16	1.036	1.153	1188							0.000	1.153
17	1.020	1.153	1206							0.000	1.153
18	1.029	1.186	1153							0.000	1.186
19	1.012	1.188	1162							0.000	1.188
20	0.988	1.170	1208							0.000	1.170
21	0.965	1.161	1232							0.000	1.161
22	0.986	1.155	1154							0.000	1.155
23	1.040	1.152	1163							0.000	1.152
24	0.963	1.159	1243							0.000	1.159
25	0.936	1.149	1235							0.000	1.149
26	0.922	0.979	1171							0.000	0.979
27	0.906	0.734	1054							0.000	0.734
28	0.898	0.744	785							0.000	0.744
29	0.908	0.816	813							0.000	0.816
30	0.964	0.889	889							0.000	0.889
TOTAL	30.027	33.740		0.000	0.000	0.000	0.000	0.000	0.000	0.000	33.740
AVERAGE	1.001	1.125	1187	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.125
MAXIMUM	1.122	1.348	1467	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.348
MINIMUM	0.898	0.513	785	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.513
DAYS	30	30		0	0	0	0	0	0	30	30

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL May 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.956	1.007	1015							0.000	1.007
2	0.932	1.089	1114							0.000	1.089
3	0.915	1.120	1145	Decomissioned						0.000	1.120
4	0.911	0.794	1051	Perc Ponds						0.000	0.794
5	0.878	0.815	997							0.000	0.815
6	0.931	0.916	874							0.000	0.916
7	0.983	1.010	1025							0.000	1.010
8	0.963	1.113	1151							0.000	1.113
9	0.929	0.993	1184							0.000	0.993
10	0.919	0.850	1108							0.000	0.850
11	0.896	0.892	1070							0.000	0.892
12	0.890	0.849	1207	Start Land Discharge		0.405				0.405	0.444
13	0.902	0.642	705			0.642				0.642	0.000
14	0.932	0.677	754			0.677				0.677	0.000
15	0.894	0.845	948			0.490	0.207	0.148		0.845	0.000
16	0.872	0.849	959			0.547	0.193	0.109		0.849	0.000
17	0.879	0.830	926			0.539	0.189	0.102		0.830	0.000
18	0.863	0.827	910			0.522	0.194	0.111		0.827	0.000
19	0.842	0.857	920			0.705	0.097	0.055		0.857	0.000
20	0.871	0.741	752			0.741				0.741	0.000
21	0.915	0.739	812			0.739				0.739	0.000
22	0.871	0.846	933			0.713	0.083	0.050		0.846	0.000
23	0.857	0.833	908			0.697	0.084	0.052		0.833	0.000
24	0.845	0.844	905			0.689	0.098	0.057		0.844	0.000
25	0.826	0.832	896			0.668	0.101	0.063		0.828	0.000
26	0.832	0.828	1360			0.656	0.104	0.068		0.758	0.000
27	0.820	0.758	772			0.758				0.758	0.000
28	0.827	0.758	804			0.758				0.758	0.000
29	0.896	0.764	858			0.622	0.093	0.049		0.764	0.000
30	0.845	0.866	908			0.704	0.100	0.062		0.866	0.000
31	0.830	0.849	907			0.674	0.105	0.070		0.849	0.000
TOTAL	27.522	26.633		0.000	0.000	12.946	1.648	0.996	0.000	15.516	11.043
AVERAGE	0.888	0.859	964	0.000	0.000	0.000	0.000	0.000	0.000	0.501	0.356
MAXIMUM	0.983	1.120	1360	0.000	0.000	0.758	0.207	0.148	0.000	0.866	1.120
MINIMUM	0.820	0.642	705	0.000	0.000	0.405	0.083	0.049	0.000	0.000	0.000
DAYS	31	31		0	0	20	13	13	0	31	31

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL June 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.839	0.813	912			0.684	0.079	0.050		0.813	0.000
2	0.814	0.844	900			0.714	0.081	0.049		0.844	0.000
3	0.824	0.757	744	Decomissioned		0.757				0.757	0.000
4	0.870	0.753	731	Perc Ponds		0.753				0.753	0.000
5	0.838	0.828	1093			0.683	0.093	0.052		0.828	0.000
6	0.831	0.800	888			0.665	0.087	0.048		0.800	0.000
7	0.808	0.815	995			0.665	0.094	0.056		0.815	0.000
8	0.813	0.838	1239			0.652	0.119	0.067		0.838	0.000
9	0.817	0.876	1144			0.699	0.114	0.063		0.876	0.000
10	0.833	0.733	741			0.733				0.733	0.000
11	0.889	0.732	750			0.732				0.732	0.000
12	0.849	0.841	960			0.670	0.112	0.059		0.841	0.000
13	0.814	0.828	910			0.683	0.098	0.047		0.828	0.000
14	0.823	0.818	948			0.653	0.114	0.051		0.818	0.000
15	0.835	0.802	911			0.641	0.107	0.054		0.802	0.000
16	0.824	0.864	1478			0.694	0.109	0.061		0.864	0.000
17	0.813	0.741	754			0.741				0.741	0.000
18	0.842	0.743	1876			0.743				0.743	0.000
19	0.847	0.818	1080			0.689	0.079	0.050		0.818	0.000
20	0.820	0.837	946			0.703	0.082	0.052		0.837	0.000
21	0.803	0.814	894			0.692	0.065	0.057		0.814	0.000
22	0.794	0.816	886			0.671	0.083	0.062		0.816	0.000
23	0.785	0.847	1053			0.694	0.089	0.064		0.847	0.000
24	0.779	0.707	735			0.707				0.707	0.000
25	0.823	0.708	740			0.708				0.840	0.000
26	0.814	0.840	1027			0.686	0.091	0.063		0.843	0.000
27	0.808	0.843	908			0.696	0.090	0.057		0.841	0.000
28	0.795	0.841	930			0.702	0.084	0.055		0.841	0.000
29	0.783	0.845	944			0.705	0.082	0.058		0.845	0.000
30	0.790	0.861	904			0.721	0.088	0.052		0.861	0.000
TOTAL	24.617	24.203		0.000	0.000	20.936	2.040	1.227	0.000	24.336	0.000
AVERAGE	0.821	0.807	967	0.000	0.000	0.000	0.000	0.000	0.000	0.811	0.000
MAXIMUM	0.889	0.876	1876	0.000	0.000	0.757	0.119	0.067	0.000	0.876	0.000
MINIMUM	0.779	0.707	731	0.000	0.000	0.641	0.065	0.047	0.000	0.707	0.000
DAYS	30	30		0	0	30	22	22	0	30	30

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL July 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.770	0.746	958			0.746				0.746	0.000
2	0.800	0.740	1040			0.740				0.740	0.000
3	0.793	0.809	1004	Decomissioned		0.683	0.090	0.036		0.809	0.000
4	0.794	0.683	945	Perc Ponds		0.683				0.683	0.000
5	0.801	0.689	842			0.689				0.689	0.000
6	0.783	0.691	879			0.691				0.691	0.000
7	0.772	0.691	823			0.691				0.691	0.000
8	0.783	0.693	882			0.693				0.693	0.000
9	0.821	0.690	870			0.690				0.690	0.000
10	0.798	0.261	790			0.261				0.261	0.000
11	0.793	0.000	0			Washed CCB				0.000	0.000
12	0.786	0.000	0			Washed CCB				0.000	0.000
13	0.784	0.415	807			0.415				0.415	0.000
14	0.771	0.707	765			0.707				0.707	0.000
15	0.773	0.713	781			0.713				0.713	0.000
16	0.831	0.716	774			0.716				0.716	0.000
17	0.828	0.722	783			0.722				0.722	0.000
18	0.790	0.723	746			0.723				0.723	0.000
19	0.782	0.723	753			0.723				0.723	0.000
20	0.793	0.724	744			0.724				0.724	0.000
21	0.771	0.720	737			0.720				0.720	0.000
22	0.773	0.713	771			0.713				0.713	0.000
23	0.810	0.713	760			0.713				0.713	0.000
24	0.788	0.712	755			0.712				0.712	0.000
25	0.780	0.714	748			0.714				0.714	0.000
26	0.779	0.715	744			0.715				0.715	0.000
27	0.780	0.719	754			0.719				0.719	0.000
28	0.773	0.765	809			0.702		0.063		0.765	0.000
29	0.779	0.718	788			0.718				0.718	0.000
30	0.815	0.717	805			0.717				0.717	0.000
31	0.803	0.746	836			0.685		0.061		0.746	0.000
TOTAL	24.497	20.088		0.000	0.000	19.838	0.090	0.160	0.000	20.088	0.000
AVERAGE	0.790	0.648	764	0.000	0.000	0.000	0.000	0.000	0.000	0.648	0.000
MAXIMUM	0.831	0.809	1040	0.000	0.000	0.746	0.090	0.063	0.000	0.809	0.000
MINIMUM	0.770	0.000	0	0.000	0.000	0.000	0.090	0.036	0.000	0.000	0.000
DAYS	31	31		0	0	29	1	3	0	28	0

DAYS WITH NO DISCHARGE = 2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL August 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.786	0.780	920	Decomissioned Perc Ponds		0.708	0.072			0.780	0.000
2	0.774	0.932	1016			0.741	0.191			0.932	0.000
3	0.777	0.901	1090			0.697	0.126	0.078		0.901	0.000
4	0.783	0.767	885			0.767				0.767	0.000
5	0.775	0.763	803			0.763				0.763	0.000
6	0.815	0.760	803			0.760				0.760	0.000
7	0.806	0.999	1146			0.717	0.097	0.185		0.999	0.000
8	0.784	0.934	938			0.565	0.292	0.077		0.934	0.000
9	0.778	0.894	920			0.714	0.112	0.068		0.894	0.000
10	0.787	0.743	818			0.579	0.164			0.743	0.000
11	0.769	0.792	870			0.700	0.092			0.792	0.000
12	0.756	0.715	791			0.715				0.715	0.000
13	0.815	0.718	809			0.718				0.718	0.000
14	0.784	0.872	1012			0.681	0.130	0.061		0.872	0.000
15	0.764	0.895	1015			0.709	0.121	0.065		0.895	0.000
16	0.780	0.916	1026			0.653	0.173	0.090		0.916	0.000
17	0.761	0.766	959			0.695	0.046	0.025		0.766	0.000
18	0.751	0.903	1022			0.652	0.176	0.075		0.903	0.000
19	0.785	0.721	799			0.721				0.721	0.000
20	0.820	0.720	796			0.720				0.720	0.000
21	0.804	0.898	1022			0.659	0.135	0.104		0.898	0.000
22	0.789	0.909	1006			0.676	0.137	0.096		0.909	0.000
23	0.780	0.862	997			0.668	0.116	0.078		0.862	0.000
24	0.773	0.859	1002			0.676	0.104	0.079		0.859	0.000
25	0.757	0.852	945			0.637	0.161	0.054		0.716	0.000
26	0.776	0.716	818			0.716				0.709	0.000
27	0.849	0.709	802			0.709				0.869	0.000
28	0.791	0.869	988			0.654	0.164	0.051		0.869	0.000
29	0.782	0.870	988			0.634	0.172	0.064		0.870	0.000
30	0.773	0.854	961			0.632	0.132	0.090		0.854	0.000
31	0.771	0.872	932			0.641	0.135	0.096		0.872	0.000
TOTAL	24.295	25.761		0.000	0.000	21.277	3.048	1.436	0.000	25.778	0.000
AVERAGE	0.784	0.831	932	0.000	0.000	0.000	0.000	0.000	0.000	0.832	0.000
MAXIMUM	0.849	0.999	1146	0.000	0.000	0.767	0.292	0.185	0.000	0.999	0.000
MINIMUM	0.751	0.709	791	0.000	0.000	0.565	0.046	0.025	0.000	0.709	0.000
DAYS	31	31		0	0	31	22	18	0	31	31

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL September 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.750	0.829	959			0.687	0.066	0.076		0.829	0.000
2	0.778	0.709	1048			0.709				0.709	0.000
3	0.789	0.709	1045	Decomissioned		0.709				0.709	0.000
4	0.861	0.713	1050	Perc Ponds		0.713				0.713	0.000
5	0.785	0.865	964			0.679	0.090	0.096		0.865	0.000
6	0.776	0.860	956			0.655	0.124	0.081		0.860	0.000
7	0.783	0.856	1034			0.692	0.078	0.086		0.856	0.000
8	0.755	0.201	814			0.201				0.201	0.000
9	0.764	0.000	0			No Discharge Washed CCB					0.000
10	0.824	0.000	0			No Discharge Washed CCB					0.000
11	0.778	0.000	0			No Discharge Washed CCB					0.000
12	0.763	0.000	0			No Discharge Washed CCB					0.000
13	0.772	0.393	1010			0.393				0.393	0.000
14	0.757	0.815	1003			0.607	0.145	0.063		0.815	0.000
15	0.745	0.800	965			0.644	0.086	0.070		0.800	0.000
16	0.768	0.650	808			0.650				0.650	0.000
17	0.820	0.645	807			0.645				0.645	0.000
18	0.784	0.805	1050			0.633	0.084	0.088		0.805	0.000
19	0.756	0.791	1221			0.610	0.097	0.084		0.791	0.000
20	0.745	0.783	968			0.602	0.105	0.076		0.783	0.000
21	0.762	0.796	971			0.594	0.095	0.107		0.796	0.000
22	0.730	0.791	1004			0.593	0.090	0.108		0.791	0.000
23	0.750	0.635	777			0.635				0.635	0.000
24	0.812	0.634	827			0.634				0.634	0.000
25	0.856	0.770	1732			0.569	0.150	0.051		0.748	0.000
26	0.776	0.748	1020			0.558	0.096	0.094		0.740	0.000
27	0.762	0.740	976			0.555	0.143	0.042		0.771	0.000
28	0.758	0.771	1013			0.677	0.094			0.771	0.000
29	0.756	0.796	1306			0.611	0.103	0.082		0.796	0.000
30	0.791	0.654	802			0.654				0.654	0.000
TOTAL	23.306	18.759		0.000	0.000	15.909	1.646	1.204	0.000	18.760	0.000
AVERAGE	0.777	0.625	871	0.000	0.000	0.000	0.000	0.000	0.000	0.722	0.000
MAXIMUM	0.861	0.865	1732	0.000	0.000	0.713	0.150	0.108	0.000	0.865	0.000
MINIMUM	0.730	0.000	0	0.000	0.000	0.201	0.066	0.000	0.000	0.201	0.000
DAYS	30	26		0	0	26	16	15	0	26	0

DAYS WITH NO DISCHARGE = 4

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL October 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.849	0.648	812	Decomissioned Perc Ponds		0.648				0.648	0.000
2	0.769	0.819	992			0.638	0.096	0.085		0.819	0.000
3	0.756	0.813	976			0.620	0.109	0.084		0.813	0.000
4	0.751	0.838	966			0.663	0.092	0.083		0.838	0.000
5	0.739	0.800	947			0.569	0.147	0.084		0.800	0.000
6	0.742	0.806	960			0.627	0.092	0.087		0.806	0.000
7	0.765	0.644	810			0.644				0.644	0.000
8	0.823	0.623	778			0.623				0.623	0.000
9	0.798	0.607	766			0.607				0.607	0.000
10	0.790	0.777	947			0.600	0.097	0.080		0.777	0.000
11	0.790	0.773	970			0.622	0.088	0.063		0.773	0.000
12	0.757	0.801	996			0.611	0.132	0.058		0.801	0.000
13	0.750	0.774	952			0.606	0.168			0.774	0.000
14	0.773	0.609	769			0.609				0.609	0.000
15	0.828	0.607	788			0.607				0.607	0.000
16	0.793	0.783	977			0.640		0.143		0.783	0.000
17	0.792	0.752	939			0.593		0.159		0.752	0.000
18	0.766	0.803	1123			0.635		0.168		0.803	0.000
19	0.757	0.799	966			0.637		0.162		0.799	0.000
20	0.753	0.811	993			0.646		0.165		0.811	0.000
21	0.763	0.614	786			0.614				0.614	0.000
22	0.862	0.613	794			0.613				0.613	0.000
23	0.808	0.803	1038			0.610	0.109	0.084		0.803	0.000
24	0.773	0.761	939			0.618		0.143		0.761	0.000
25	0.772	0.731	912			0.585	0.079	0.067		0.724	0.000
26	0.769	0.724	916			0.590	0.134			0.728	0.000
27	0.756	0.728	917			0.602	0.126			0.603	0.000
28	0.767	0.603	770			0.603				0.603	0.000
29	0.827	0.602	768			0.602				0.602	0.000
30	0.780	0.730	908			0.598		0.132		0.730	0.000
31	0.725	0.732	900			0.614		0.118		0.732	0.000
TOTAL	24.143	22.528		0.000	0.000	19.094	1.469	1.965	0.000	22.400	0.000
AVERAGE	0.779	0.727	906	0.000	0.000	0.000	0.000	0.000	0.000	0.723	0.000
MAXIMUM	0.862	0.838	1123	0.000	0.000	0.663	0.168	0.168	0.000	0.838	0.000
MINIMUM	0.725	0.602	766	0.000	0.000	0.569	0.079	0.058	0.000	0.602	0.000
DAYS	31	31		0	0	31	13	18	0	31	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL Novemebr 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.787	0.741	893			0.607		0.134		0.741	0.000
2	0.777	0.738	905			0.595		0.143		0.738	0.000
3	0.764	0.800	1193	Decomissioned		0.628		0.172		0.800	0.000
4	0.803	0.587	781	Perc Ponds		0.587				0.587	0.000
5	0.898	0.577	762			0.577				0.577	0.000
6	0.876	0.632	855			0.548		0.084		0.632	0.000
7	0.809	0.739	1009			0.611		0.128		0.739	0.000
8	0.768	0.822	961			0.706		0.116		0.822	0.000
9	0.739	0.871	976			0.871				0.871	0.000
10	0.768	0.768	844			0.768				0.768	0.000
11	0.766	0.757	864			0.757				0.757	0.000
12	0.826	0.747	864			0.635		0.112		0.747	0.000
13	0.772	0.826	999			0.721		0.105		0.826	0.000
14	0.776	0.969	1066			0.877		0.092		0.969	0.000
15	0.792	0.982	1065			0.906		0.076		0.982	0.000
16	0.762	0.931	1016			0.784		0.147		0.931	0.000
17	0.754	0.983	1094			0.983				0.983	0.000
18	0.779	0.867	996			0.867				0.867	0.000
19	0.829	0.864	919			0.743		0.121		0.864	0.000
20	0.778	0.951	1060			0.817		0.134		0.951	0.000
21	0.761	0.993	1118			0.880		0.113		0.993	0.000
22	0.767	0.974	1049			0.974				0.974	0.000
23	0.804	0.865	944			0.865				0.865	0.000
24	0.737	0.869	918			0.869				0.869	0.000
25	0.754	0.876	910			0.876				0.875	0.000
26	0.825	0.875	915			0.789		0.086		0.941	0.000
27	0.765	0.941	969			0.859		0.082		0.922	0.000
28	0.742	0.922	947			0.826		0.096		0.922	0.000
29	0.747	0.982	1032			0.870		0.112		0.982	0.000
30	0.738	0.982	1046			0.865		0.117		0.982	0.000
TOTAL	23.463	25.431		0.000	0.000	23.261	0.000	2.170	0.000	25.477	0.000
AVERAGE	0.782	0.848	966	0.000	0.000	0.000	0.000	0.000	0.000	0.849	0.000
MAXIMUM	0.898	0.993	1193	0.000	0.000	0.983	0.000	0.172	0.000	0.993	0.000
MINIMUM	0.737	0.577	762	0.000	0.000	0.548	0.000	0.076	0.000	0.577	0.000
DAYS	30	30		0	0	30	0	19	0	30	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL December 2023

Discharge Monitoring DATE	**M-INF** INFLUENT MGD	**M-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	0.789	1.012	1040			0.903		0.109		1.012	0.000
2	1.015	0.924	894			0.924				0.924	0.000
3	1.104	0.894	1123	Decomissioned		0.894				0.894	0.000
4	0.945	0.971	1006	Perc Ponds		0.887		0.084		0.971	0.000
5	0.892	0.974	971			0.893		0.081		0.974	0.000
6	0.974	1.409	1691			0.372		Began River Discharge		0.372	1.037
7	1.027	1.426	1489							0.000	1.426
8	0.944	1.508	1470							0.000	1.508
9	0.923	1.374	1332							0.000	1.374
10	0.951	1.305	1284							0.000	1.305
11	0.878	1.334	1354							0.000	1.334
12	0.853	1.252	1313							0.000	1.252
13	0.847	1.332	1398							0.000	1.332
14	0.831	1.200	1237							0.000	1.200
15	0.830	1.282	1303							0.000	1.282
16	0.841	1.177	1260							0.000	1.177
17	0.914	1.202	1362							0.000	1.202
18	0.924	1.282	1340							0.000	1.282
19	1.082	1.349	1241							0.000	1.349
20	1.094	1.397	1283							0.000	1.397
21	1.004	1.414	1426							0.000	1.414
22	0.978	1.322	1292							0.000	1.322
23	0.959	1.299	1347							0.000	1.299
24	0.947	1.220	1243							0.000	1.220
25	0.882	1.257	1287							0.000	1.257
26	0.886	1.184	1197							0.000	1.184
27	0.901	1.220	1273							0.000	1.220
28	0.881	1.177	1182							0.000	1.177
29	0.897	1.210	1323							0.000	1.210
30	1.027	1.271	1235							0.000	1.271
31	0.996	1.303	1324							0.000	1.303
TOTAL	29.016	38.481		0.000	0.000	4.873	0.000	0.274	0.000	5.147	33.334
AVERAGE	0.936	1.241	1275	0.000	0.000	0.000	0.000	0.000	0.000	0.166	1.075
MAXIMUM	1.104	1.508	1691	0.000	0.000	0.924	0.000	0.109	0.000	1.012	1.508
MINIMUM	0.789	0.894	894	0.000	0.000	0.372	0.000	0.081	0.000	0.000	0.000
DAYS	31	31		0	0	6	0	3	0	6	26

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

ANNUAL MONTHLY AVERAGES 2023

	MONTHLY TESTS EFF-001 DISCHARGE TO RIVER									REC-001 TO LAND							
January	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.06	1.0	2.2	96	4.7	ND	ND	ND	DNQ .37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
February	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.06	0.7	3.9	90	4.1	DNQ .098	ND	ND	DNQ .33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
March	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.08	2.0	2.2	85	5.4	ND	ND	ND	DNQ .38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
April	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.08	1.2	3.4	74	4.5	DNQ .10	ND	ND	DNQ .34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
May	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.07	1.0	2.1	69	3.3	ND	ND	ND	DNQ .31	1.20	210	1.0	2.1	ND	28	38	210
June	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND	220	2.7	1.5	ND	33	39	250
July	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	ND	250	2.1	2.9	ND	36	43	280
August	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.20	260	2.5	1.5	ND	37	45	300
September	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.30	290	2.1	3.3	ND	40	49	340
October	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.60	290	1.0	2.2	ND	40	48	330
November	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.40	310	1.3	6.4	ND	39	50	330
December	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.22	1.4	7.4	120	6.6	ND	ND	ND	DNQ .39	ND	310	1.4	7.4	ND	36	44	280

EXHIBIT D

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: January 2023

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	1.081	1.843	1316	7750	2643			6.9	11.3			1.7	0.00										
2	1.079	1.846	1309	4830	1656			6.9	10.9			1.6	0.00										
3	1.011	1.842	1308	3630	1246			7.0	10.5			1.6	0.00		<1.8	15:00	6.8	11.8	11.4	15:10	6.7	11.3	11.2
4	0.978	1.827	1328	2690	909			7.0	11.7			2.1	0.00										
5	1.122	1.826	1313	5470	1870			6.9	11.9			2.1	0.00										
6	1.059	1.818	1383	7070	2295	260	210	7.0	11.4	0.0	1.6	1.9	0.00	<0.1									
7	1.093	1.804	1340	5040	1688			6.9	11.3			2.0	0.00										
8	1.286	1.800	1335	15800	5312			6.9	11.4			1.8	0.00										
9	1.131	1.510	1739	8480	2189			7.0	11.4			1.8	0.00		<1.8								
10	1.094	1.424	1348	7410	2467			6.8	12.8			2.4	0.00			15:55	7.0	10.5	11.3	16:05	7.1	11.7	11.3
11	1.089	1.523	1399	7060	2265			7.0	13.0			1.9	0.00										
12	1.062	1.533	1404	8350	2670			6.8	13.4			1.7	0.00										
13	1.197	1.579	1448	7540	2337	380	270	7.0	13.8	2.7	1.4	1.8	0.00	<0.1									
14	1.273	1.577	1459	8530	2624			7.1	13.7			1.8	0.00										
15	1.299	1.614	1507	11300	3366			6.9	12.6			1.9	0.00										
16	1.245	1.603	1392	7920	2554			7.0	11.8			2.0	0.00										
17	1.103	1.535	1412	5650	1796			6.9	11.8			1.8	0.00		<1.8								
18	1.114	1.484	1392	4380	1412			7.0	11.8			1.8	0.00			13:20	6.9	8.3	11.5	13:30	6.9	8.1	11.2
19	1.117	1.550	1428	4170	1311			7.0	11.9			1.7	0.00										
20	1.046	1.444	1401	3540	1134	240	180	6.9	11.2	2.7	2.0	1.9	0.00	<0.1									
21	1.071	1.364	1313	2920	998			6.7	10.4			2.4	0.00										
22	1.094	1.332	1334	2380	801			7.0	11.1			2.9	0.00										
23	1.007	1.299	1285	2010	702			6.9	11.1			2.2	0.00		<1.8								
24	0.969	1.291	1320	1730	588			7.1	11.0			2.1	0.00			14:10	7.1	11.2	11.5	14:20	7.2	10.4	11.3
25	0.977	1.283	1293	1530	531			7.1	11.1			2.3	0.00										
26	0.941	1.250	1236	1390	505			6.9	11.8			1.9	0.00										
27	0.933	1.243	1268	1270	450	360	230	6.9	11.3	2.6	2.7	2.4	0.00	<0.1									
28	0.958	1.198	1273	1190	420			7.0	12.0			2.3	0.00										
29	1.011	1.106	1230	1130	412			7.0	11.8			2.4	0.00										
30	0.922	1.055	1145	1050	412			6.8	11.8			2.5	0.00		<1.8								
31	0.911	0.977	1194	985	370			7.0	11.7			3.0	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.06	1.0	2.2	96	4.7	ND	ND	ND	DNQ .37	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	64	ND	88	143

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
96	65	ND	105	145

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
1/19/2023	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.8

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	2	24	99	2	24	99

Remarks

EFF-001
REC-001
Quarterly
Permit Exceedance

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: February 2023

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	0.913	0.952	1099	925	378			7.0	11.6			2.6	0.00			15:00	7.0	11.0	12.1	15:10	7.2	11.3	11.9
2	0.888	0.921	1084	867	359			7.0	11.5			1.4	0.00										
3	0.885	0.887	1096	842	345	300	230	6.9	12.1	3.0	2.2	0.9	0.00	<0.1									
4	0.932	0.783	1081	824	342			7.2	12.1			0.9	0.00										
5	1.051	1.027	1196	1330	499			7.2	12.2			1.5	0.00										
6	0.962	1.066	1220	2540	935			6.9	12.8			2.0	0.00		2								
7	0.917	1.057	1172	1800	689			6.8	12.8			1.9	0.00			16:00	7.3	11.4	10.9	16:10	7.3	11.7	10.8
8	0.908	1.041	1256	1570	561			6.8	13.4			1.2	0.00										
9	0.889	1.023	1205	1340	499			7.1	12.8			1.1	0.00										
10	0.894	1.007	1158	1300	504	300	260	6.9	12.7	3.2	3.0	2.0	0.00	<0.1									
11	0.930	1.032	1132	1230	488			7.0	12.9			1.7	0.00										
12	0.978	0.968	1094	1130	464			7.1	12.2			1.0	0.00										
13	0.900	0.960	1168	1050	404			7.1	12.5			1.3	0.00		<1.8								
14	0.903	0.986	1128	992	395			7.0	11.9			1.6	0.00			11:00	7.1	8.5	11.8	11:10	6.9	8.7	11.3
15	0.898	1.066	1203	978	365			7.0	11.5			2.3	0.00										
16	0.888	0.935	1148	905	354			7.2	11.7			1.1	0.00										
17	0.854	0.880	1112	880	355	300	280	7.2	12.0	3.6	3.0	1.3	0.00	<0.1									
18	0.873	0.798	1131	857	340			7.2	11.2			0.7	0.00										
19	0.889	0.817	1030	821	358			7.2	11.5			0.6	0.00										
20	0.890	0.808	979	794	364			7.2	12.1			1.5	0.00										
21	0.866	0.900	1052	780	333			7.1	12.3			2.2	0.00		<1.8	15:20	6.9	10.6	11.2	15:30	7.0	9.9	11.2
22	0.975	1.105	1168	922	354			7.2	11.8			3.4	0.00										
23	1.025	1.213	1129	1110	441			7.2	11.1			3.0	0.00										
24	1.031	1.267	1257	1110	396	300	250	7.1	10.5	4.8	4.1	2.7	0.00	<0.1									
25	1.034	1.260	1288	1140	397			7.1	10.1			2.3	0.00										
26	1.103	1.255	1202	1240	463			7.1	10.9			2.5	0.00										
27	1.146	1.312	1145	1940	761			7.0	11.4			2.4	0.00		<1.8								
28	1.200	1.327	1241	3120	1128			6.8	11.0			2.4	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.06	0.7	3.9	90	4.1	DNQ .098	ND	ND	DNQ .33	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
110	59	ND	101	35.1

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
130	62	ND	128	36.3

ACUTE TOXICITY			Quarterly Tests	Value in ug/l
Date	Species	TST Pass/Fail	Bromoform	ND
2/9/2023	Rainbow Trout	Pass	Chloroform	1.8

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	4	32	99	3	27	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: March 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	1.150	1.326	1269	2830	1001			6.8	11.8			2.4	0.00			11:20	6.9	9.8	11.9	11:35	6.8	9.6	12.0
2	1.074	1.301	1242	1760	636			7.0	11.9			1.6	0.00										
3	1.038	1.269	1294	1420	493	270	240	6.9	11.6	4.2	3.9	1.9	0.00	<0.1									
4	1.131	1.270	1169	1370	526			6.7	12.2			1.9	0.00										
5	1.261	1.341	1208	2340	869			6.9	11.9			1.7	0.00										
6	1.161	1.345	1364	2320	763			6.8	10.8			2.0	0.00		<1.8								
7	1.173	1.373	1361	2010	663			6.8	11.2			2.1	0.00			15:10	7.1	9.6	11.8	15:20	7.1	9.9	11.4
8	1.248	1.425	1280	2670	936			7.1	10.8			2.4	0.00										
9	1.217	1.406	1334	2200	740			7.0	10.9			2.4	0.00										
10	1.291	1.455	1228	7130	2606	270	220	7.0	11.1	4.6	2.6	2.1	0.00	<0.1									
11	1.235	1.426	1303	5080	1750			7.0	10.6			2.7	0.00										
12	1.239	1.297	1313	4230	1446			6.9	11.8			2.7	0.00										
13	1.612	0.963	2393	10200	1913			6.8	12.9			2.8	0.00		<1.8								
14	1.716	0.563	2101	28000	5982			6.6	13.2			1.5	0.00			10:50	6.5	8.9	12.9	11:00	6.5	8.6	12.8
15	1.434	1.039	1519	22400	6619			7.2	10.2			1.5	0.00										
16	1.291	1.283	1142	10300	4048			6.9	11.7			1.6	0.00										
17	1.214	1.425	1245	7190	2592	240	230	6.9	12.2	4.6	5.5	1.8	0.00	<0.1									
18	1.191	1.453	1295	5800	2010			7.1	12.4			1.9	0.00										
19	1.322	1.472	1280	4970	1743			7.0	12.7			2.0	0.00										
20	1.226	1.430	1275	6920	2436			7.1	12.7			2.0	0.00		<1.8								
21	1.159	1.351	1303	5810	2001			6.9	12.5			1.7	0.00			13:30	6.9	10.4	11.4	13:40	6.8	10.0	11.2
22	1.115	1.310	1245	4850	1749			6.9	12.6			1.7	0.00										
23	1.111	1.283	1282	4390	1537			6.9	12.7			1.6	0.00										
24	1.085	1.275	1178	4260	1623	130	110	7.0	13.2	6.0	6.1	2.2	0.00	<0.1									
25	1.088	1.264	1249	3690	1326			6.9	12.3			1.7	0.00										
26	1.139	1.261	1261	3140	1118			6.8	12.4			1.6	0.00										
27	1.063	1.246	1288	2630	917			6.9	12.5			2.1	0.00		<1.8								
28	1.132	1.256	1174	2560	979			6.9	12.0			1.7	0.00			10:50	6.8	8.5	11.9	11:00	6.9	8.7	11.2
29	1.088	1.263	1238	3870	1403			6.9	12.0			1.6	0.00										
30	1.045	1.260	1348	3390	1129			6.9	12.4			1.7	0.00										
31	1.025	1.250	1307	2900	996	190	150	6.9	13.0	3.7	3.6	1.7	0.00	<0.1									

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.08	2.0	2.2	85	5.4	ND	ND	ND	DNQ .38	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
91	52	ND	99	38.2

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
91	54	ND	95	40

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
3/9/2023	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.8

	BOD	BOD	BOD	TSS	TSS	TSS
BOD & TSS	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	5	51	98	4	48	97

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: April 2023

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	1.036	1.243	1270	2610	922			6.8	12.7			1.8	0.00										
2	1.122	1.248	1292	2720	945			6.8	12.4			1.3	0.00										
3	1.054	1.258	1289	2920	1017			6.9	12.3			1.7	0.00		<1.8	14:30	6.9	12.1	11.4	14:40	6.9	12.0	11.1
4	1.016	1.159	1346	2650	884			6.9	12.7			2.0	0.00										
5	0.999	0.513	1120	2290	918			6.8	14.4			1.1	0.00										
6	0.995	1.166	1126	2080	829			7.0	13.7			1.3	0.00										
7	1.023	1.326	1325	2240	759	310	210	6.9	13.4	2.4	1.1	2.0	0.00	<0.1									
8	1.016	1.348	1442	3330	1037			6.9	13.6			1.3	0.00										
9	1.020	1.332	1467	3160	967			7.1	13.6			1.5	0.00										
10	1.035	1.291	1334	3250	1094			6.9	15.8			1.9	0.00		<1.8								
11	1.102	1.275	1185	4750	1799			7.0	15.4			1.9	0.00			8:20	6.9	11.5	11.2	8:30	6.9	11.8	11.3
12	1.054	1.233	1169	3790	1455			6.9	14.6			1.6	0.0										
13	1.006	1.208	1200	3040	1137			7.1	13.6			1.7	0.00										
14	0.990	1.185	1210	2500	927	270	280	7.1	14.4	3.7	2.3	2.0	0.00	<0.1									
15	0.986	1.167	1184	2130	807			6.9	14.6			1.7	0.00										
16	1.036	1.153	1188	1980	748			7.0	13.9			1.8	0.00										
17	1.020	1.153	1206	1850	689			6.9	14.4			2.2	0.00		<1.8								
18	1.029	1.186	1153	2170	845			6.9	14.1			2.1	0.00			14:00	7.1	10.6	11.8	14:10	7.0	11.2	11.3
19	1.012	1.188	1162	1910	738			7.0	13.8			2.1	0.00										
20	0.988	1.170	1208	1700	632			7.0	14.1			2.5	0.00										
21	0.965	1.161	1232	1510	550	290	210	7.0	14.9	2.2	1.3	2.3	0.00	<0.1									
22	0.986	1.155	1154	1590	618			6.9	15.5			1.7	0.00										
23	1.040	1.152	1163	1790	691			7.0	15.8			1.7	0.00										
24	0.963	1.159	1243	1850	668			7.1	15.7			2.6	0.00		<1.8								
25	0.936	1.149	1235	1570	571			7.1	15.4			2.6	0.00			9:20	6.9	12.4	10.9	9:30	6.9	12.3	10.6
26	0.922	0.979	1171	1460	560			7.2	16.0			1.8	0.00										
27	0.906	0.734	1054	1570	669			7.2	16.3			0.9	0.00										
28	0.898	0.744	785	1660	949	310	220	7.2	16.7	2.9	1.5	1.3	0.00	<0.1									
29	0.908	0.816	813	1670	922			7.3	17.0			1.9	0.00										
30	0.964	0.889	889	1480	747			7.1	16.8			2.3	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.08	1.2	3.4	74	4.5	DNQ .10	ND	ND	DNQ .34	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
100	48	ND	105	71.8

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
110	50	ND	110	64.9

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
4/9/2023	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.4

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	3	26	99	2	14	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: May 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.956	1.007	1015	1250	553			7.2	16.1			2.7	0.00		<1.8	14:30	7.0	13.5	10.6	14:40	7.0	14.0	10.1
2	0.932	1.089	1114	1140	459			7.3	15.8			3.0	0.00										
3	0.915	1.120	1145	861	338			7.3	15.2			2.5	0.00										
4	0.911	0.794	1051	800	342			7.2	16.2			1.2	0.00										
5	0.878	0.815	997	762	343	510	440	7.2	15.2	3.0	2.5	1.2	0.00	<0.1									
6	0.931	0.916	874	836	429			7.2	15.7			1.5	0.00										
7	0.983	1.010	1025	930	407			7.2	16.2			2.7	0.00										
8	0.963	1.113	1151	861	336			7.0	15.7			3.1	0.00		<1.8								
9	0.929	0.993	1184	1030	390			7.0	16.7			0.7	0.00			8:05	7.2	14.1	11.2	8:15	7.3	14.4	10.9
10	0.919	0.850	1108	898	364			7.2	16.4			1.4	0.00										
11	0.896	0.892	1070	818	343			7.3	17.0			1.0	0.00										
12	0.890	0.849	1207	762	283	330	290	7.0	15.4	3.4	2.6	1.2	0.00	<0.1									
13	0.902	0.642	705	747	476			7.2	16.7			0.7	N/A	Land Discharge									
14	0.932	0.677	754		N/A			7.2	17.1			0.7	N/A										
15	0.894	0.845	948		N/A			7.3	17.9			1.8	N/A		<1..8								
16	0.872	0.849	959		N/A			7.3	17.6			1.9	N/A			14:00	7.4	16.1	11.6	14:10	7.4	16.7	11.3
17	0.879	0.830	926		N/A			7.2	17.7			2.1	N/A										
18	0.863	0.827	910		N/A			7.1	17.7			2.0	N/A										
19	0.842	0.857	920		N/A	350	250	7.3	17.6	5.2	2.2	1.9	N/A	<0.1									
20	0.871	0.741	752		N/A			7.0	17.1			1.6	N/A										
21	0.915	0.739	812		N/A			7.2	17.4			1.7	N/A										
22	0.871	0.846	933		N/A			7.2	18.3			2.1	N/A		<1.8								
23	0.857	0.833	908		N/A			7.2	17.5			2.0	N/A			8:20	7.2	17.1	11.4	8:30	7.3	17.0	11.5
24	0.845	0.844	905		N/A			7.2	17.6			1.9	N/A										
25	0.826	0.832	896		N/A			7.0	17.6			1.9	N/A										
26	0.832	0.828	1360		N/A	360	250	7.2	17.4	5.4	1.8	1.7	N/A	<0.1									
27	0.820	0.758	772		N/A			7.0	18.2			1.9	N/A										
28	0.827	0.758	804		N/A			7.0	17.4			2.1	N/A										
29	0.896	0.764	858		N/A			7.0	17.5			2.2	N/A										
30	0.845	0.866	908		N/A			7.2	17.3			2.0	N/A		<1.8	13:20	7.5	17.0	9.7	13:30	7.5	17.3	9.5
31	0.830	0.849	907		N/A			7.2	17.2			2.0	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.07	1.0	2.10	69	3.3	ND	ND	ND	.31 DNQ	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.20	210	1.00	2.10	ND	28	38	210

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
70	45	ND	81	24

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
80	49	ND	98	22.3

ACUTE TOXICITY			Quarterly Tests	Value in ug/l
Date	Species	TST Pass/Fail	Bromoform	ND
5/16/2023	Rainbow Trout	Pass	Chloroform	1.4

	BOD	BOD	BOD	TSS	TSS	TSS
BOD & TSS	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	4	30	99	2	16	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: June 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.839	0.813	912	N/A	N/A			7.2	17.5			1.8	N/A										
2	0.814	0.844	900	N/A	N/A	280	220	7.2	17.5	0.0	0.0	1.8	N/A	<0.1									
3	0.824	0.757	744	N/A	N/A			7.1	17.6			2.0	N/A										
4	0.870	0.753	731	N/A	N/A			7.2	17.6			2.0	N/A										
5	0.838	0.828	1093	N/A	N/A			7.3	17.9			1.9	N/A		<1.8	16:00	6.7	18.7	9.1	16:10	6.9	19.7	9.0
6	0.831	0.800	888	N/A	N/A			7.2	17.8			1.7	N/A										
7	0.808	0.815	995	N/A	N/A			7.2	17.8			1.8	N/A										
8	0.813	0.838	1239	N/A	N/A			7.3	17.7			1.8	N/A										
9	0.817	0.876	1144	N/A	N/A	300	230	7.2	17.5	4.8	0.0	2.0	N/A	<0.1									
10	0.833	0.733	741	N/A	N/A			7.2	17.5			2.0	N/A										
11	0.889	0.732	750	N/A	N/A			7.2	17.7			1.9	N/A										
12	0.849	0.841	960	N/A	N/A			7.2	17.7			1.8	N/A		<1.8								
13	0.814	0.828	910	N/A	N/A			7.2	17.8			2.5	N/A			13:40	7.0	19.7	8.7	13:52	7.1	19.4	9.4
14	0.823	0.818	948	N/A	N/A			7.2	17.8			1.8	N/A										
15	0.835	0.802	911	N/A	N/A			7.1	18.2			1.7	N/A										
16	0.824	0.864	1478	N/A	N/A	780	300	7.1	17.9	6.0	0.0	1.8	N/A	<0.1									
17	0.813	0.741	754	N/A	N/A			7.0	18.1			2.5	N/A										
18	0.842	0.743	1876	N/A	N/A			7.1	18.3			2.2	N/A										
19	0.847	0.818	1080	N/A	N/A			7.1	17.7			2.1	N/A		<1.8								
20	0.820	0.837	946	N/A	N/A			7.1	17.8			1.7	N/A			7:35	7.2	16.7	9.1	7:45	7.1	16.4	8.7
21	0.803	0.814	894	N/A	N/A			7.2	17.9			1.6	N/A										
22	0.794	0.816	886	N/A	N/A			7.2	18.1			1.7	N/A										
23	0.785	0.847	1053	N/A	N/A	300	210	7.0	18.0	6.6	0.0	2.0	N/A	<0.1									
24	0.779	0.707	735	N/A	N/A			7.1	18.0			1.7	N/A										
25	0.823	0.708	740	N/A	N/A			7.1	18.0			1.7	N/A										
26	0.814	0.840	1027	N/A	N/A			7.0	17.5			1.9	N/A		<1.8								
27	0.808	0.843	908	N/A	N/A			7.0	17.5			2.0	N/A			11:10	6.8	18.0	8.8	11:20	6.7	17.8	8.1
28	0.795	0.841	930	N/A	N/A			7.1	17.8			1.7	N/A										
29	0.783	0.845	944	N/A	N/A			6.9	17.8			1.7	N/A										
30	0.790	0.861	904	N/A	N/A	340	230	7.3	18.4	4.6	0.0	2.1	N/A	<0.1									

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
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 nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
ND	220	2.70	1.50	ND	33	39	250

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
96	73	ND	138	1.2

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	73	ND	166	1.7

ACUTE TOXICITY			Quarterly Tests	Value in ug/l
Date	Species	TST Pass/Fail	Bromoform	ND
	Rainbow Trout	N/A	Chloroform	1.4

	BOD	BOD	BOD	TSS	TSS	TSS
BOD & TSS	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	4	32	99	0	0	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: July 2023

DATE	INFLUENT FLOW M.G.D.	EFFLUENT FLOW M.G.D.	EFFLUENT MAXIMUM GPM	RIVER CFS	RIVER Dilution	INFLUENT MONITORING B.O.D. mg/L	INFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING pH	EFFLUENT MONITORING (C°) TEMP	EFFLUENT MONITORING B.O.D. mg/L	EFFLUENT MONITORING TSS mg/L	EFFLUENT MONITORING CL_2 RES.	EFFLUENT MONITORING RIVER CL_2 RES	EFFLUENT MONITORING SETTLEABLE SOLIDS	EFFLUENT MONITORING TOTAL COLIFORM	RSW-001 TIME	RSW-001 PH	RSW-001 TEMP	RSW-001 D.O.	RSW-002 TIME	RSW-002 PH	RSW-002 TEMP	RSW-002 D.O.
1	0.770	0.746	958	N/A	N/A			7.0	18.3			1.8	N/A										
2	0.800	0.740	1040	N/A	N/A			7.1	18.6			1.3	N/A										
3	0.793	0.809	1004	N/A	N/A			7.2	18.2			1.3	N/A										
4	0.794	0.683	945	N/A	N/A			7.1	18.8			1.2	N/A										
5	0.801	0.689	842	N/A	N/A			7.2	17.8			1.1	N/A		<1.8								
6	0.783	0.691	879	N/A	N/A			7.2	18.0			1.0	N/A			8:20	7.0	18.5	8.4	8:25	7.1	17.8	9.4
7	0.772	0.691	823	N/A	N/A	310	240	7.2	18.2	4.2	0.0	1.3	N/A	<0.1									
8	0.783	0.693	882	N/A	N/A			7.0	18.6			1.7	N/A										
9	0.821	0.690	870	N/A	N/A			7.1	18.8			1.9	N/A										
10	0.798	0.261	790	N/A	N/A			7.1	18.0			1.4	N/A		<1.8								
11	0.793	0.000	0	N/A	N/A			N/A	N/A		Washed CCB					15:00	7.2	19.4	10.2	15:05	7.3	20.1	9.6
12	0.786	0.000	0	N/A	N/A			N/A	N/A		Washed CCB												
13	0.784	0.415	807	N/A	N/A			6.7	18.4			1.5	N/A										
14	0.771	0.707	765	N/A	N/A	320	250	6.9	18.9	5.4	2.8	0.7	N/A	<0.1									
15	0.773	0.713	781	N/A	N/A			6.9	19.3			0.8	N/A										
16	0.831	0.716	774	N/A	N/A			6.8	19.1			2.7	N/A										
17	0.828	0.722	783	N/A	N/A			6.8	19.4			2.8	N/A		<1.8								
18	0.790	0.723	746	N/A	N/A			7.0	19.6			2.8	N/A			16:00	7.1	23.5	9.0	16:10	7.2	19.1	8.9
19	0.782	0.723	753	N/A	N/A			7.1	19.7			3.1	N/A										
20	0.793	0.724	744	N/A	N/A			7.1	19.6			3.2	N/A										
21	0.771	0.720	737	N/A	N/A	320	270	7.1	19.1	6.7	0.0	3.1	N/A	<0.1									
22	0.773	0.713	771	N/A	N/A			7.2	19.2			3.4	N/A										
23	0.810	0.713	760	N/A	N/A			7.1	19.3			3.3	N/A										
24	0.788	0.712	755	N/A	N/A			6.7	19.9			3.0	N/A		<1.8								
25	0.780	0.714	748	N/A	N/A			7.3	20.9			3.2	N/A			10:00	7.2	22.6	9.4	10:10	7.4	20.5	9.0
26	0.779	0.715	744	N/A	N/A			7.1	19.8			3.2	N/A										
27	0.780	0.719	754	N/A	N/A			7.1	20.0			3.1	N/A										
28	0.773	0.765	809	N/A	N/A	380	320	7.1	19.5	3.5	0.0	2.2	N/A	<0.1									
29	0.779	0.718	788	N/A	N/A			7.0	20.1			2.6	N/A										
30	0.815	0.717	805	N/A	N/A			7.0	20.1			2.7	N/A										
31	0.803	0.746	836	N/A	N/A			7.0	19.7			1.9	N/A		<1.8								

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
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 nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
ND	250	2.10	2.90	ND	36	43	280

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
1200	140	ND	450	0.8

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
390	310	ND	1505	1.8

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	30	98	1	4	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: August 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.786	0.780	920	N/A	N/A			7.0	19.9			2.3	N/A			15:00	6.9	22.1	9.4	15:10	7.4	22.5	9.6
2	0.774	0.932	1016	N/A	N/A			6.9	20.2			3.1	N/A										
3	0.777	0.901	1090	N/A	N/A			7.1	19.9			1.1	N/A										
4	0.783	0.767	885	N/A	N/A	360	320	7.3	20.0	3.1	0.0	0.9	N/A	<0.1									
5	0.775	0.763	803	N/A	N/A			7.1	20.2			0.9	N/A										
6	0.815	0.760	803	N/A	N/A			7.2	20.0			0.5	N/A										
7	0.806	0.999	1146	N/A	N/A			7.2	20.0			1.1	N/A		<1.8								
8	0.784	0.934	938	N/A	N/A			7.1	20.0			1.4	N/A			10:44	6.8	20.5	9.3	10:53	6.9	21.0	9.3
9	0.778	0.894	920	N/A	N/A			7.1	20.2			1.5	N/A										
10	0.787	0.743	818	N/A	N/A			7.1	20.7			0.9	N/A										
11	0.769	0.792	870	N/A	N/A	360	320	7.0	20.5	3.4	lab error	0.9	N/A	<0.1									
12	0.756	0.715	791	N/A	N/A			7.3	20.6			0.4	N/A										
13	0.815	0.718	809	N/A	N/A			7.2	20.6			1.9	N/A										
14	0.784	0.872	1012	N/A	N/A			7.2	20.2			2.1	N/A		<1.8								
15	0.764	0.895	1015	N/A	N/A			7.0	21.0			1.9	N/A			16:00	8.0	24.4	10.4	16:10	8.1	24.3	10.0
16	0.780	0.916	1026	N/A	N/A			7.0	21.2			1.8	N/A										
17	0.761	0.766	959	N/A	N/A			7.1	21.1			1.3	N/A										
18	0.751	0.903	1022	N/A	N/A	290	270	7.0	20.3	5.0	0.0	1.2	N/A	<0.1									
19	0.785	0.721	799	N/A	N/A			7.0	19.8			1.7	N/A										
20	0.820	0.720	796	N/A	N/A			7.1	19.4			1.9	N/A										
21	0.804	0.898	1022	N/A	N/A			7.2	19.5			2.0	N/A		<1.8								
22	0.789	0.909	1006	N/A	N/A			7.2	19.5			2.7	N/A			8:30	7.2	18.8	9.7	8:40	7.4	18.4	9.6
23	0.780	0.862	997	N/A	N/A			7.1	19.1			2.4	N/A										
24	0.773	0.859	1002	N/A	N/A			7.0	19.9			1.5	N/A										
25	0.757	0.852	945	N/A	N/A	310	250	7.2	19.3	5.1	2.8	1.2	N/A	<0.1									
26	0.776	0.716	818	N/A	N/A			6.9	19.9			1.1	N/A										
27	0.849	0.709	802	N/A	N/A			7.1	18.8			1.7	N/A										
28	0.791	0.869	988	N/A	N/A			7.2	19.2			0.5	N/A										
29	0.782	0.870	988	N/A	N/A			7.2	19.9			1.0	N/A		<1.8	14:00	7.5	20.1	9.6	14:10	7.6	21.2	9.1
30	0.773	0.854	961	N/A	N/A			7.1	20.7			0.7	N/A										
31	0.771	0.872	932	N/A	N/A			7.2	20.3			1.7	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
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 nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.20	260	2.50	1.50	ND	37	45	300

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
210	110	ND	335	0.6

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
1500	290	ND	1881	0.7

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	4	29	99	1	5	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_Lab made error and dumped sample prior to running the August 11 TSS

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: September 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.750	0.829	959	N/A	N/A	340	290	6.9	19.9	4.8	0.0	2.2	N/A	<0.1									
2	0.778	0.709	1048	N/A	N/A			7.0	20.3			2.0	N/A										
3	0.789	0.709	1045	N/A	N/A			7.0	20.4			2.2	N/A										
4	0.861	0.713	1050	N/A	N/A			7.1	20.5			1.6	N/A										
5	0.785	0.865	964	N/A	N/A			7.1	20.1			4.2	N/A		<1.8	9:15	7.0	18.1	8.6	9:25	7.0	17.7	8.5
6	0.776	0.860	956	N/A	N/A			7.0	19.7			3.0	N/A										
7	0.783	0.856	1034	N/A	N/A			7.0	19.7			2.2	N/A										
8	0.755	0.201	814	N/A	N/A	340	260	6.9	20.3	0.0	0.0	1.6	N/A	<0.1									
9	0.764	0.000	0	N/A	N/A	No Discharge Washed CCB							N/A										
10	0.824	0.000	0	N/A	N/A	No Discharge Washed CCB							N/A										
11	0.778	0.000	0	N/A	N/A	No Discharge Washed CCB							N/A										
12	0.763	0.000	0	N/A	N/A	No Discharge Washed CCB							N/A			15:30	7.3	21.6	11.1	15:40	7.1	22.0	9.9
13	0.772	0.393	1010	N/A	N/A			7.1	20.1			0.9	N/A										
14	0.757	0.815	1003	N/A	N/A			7.2	19.5			3.7	N/A		<1.8								
15	0.745	0.800	965	N/A	N/A	490	450	6.9	19.0	7.2	3.3	3.1	N/A	<0.1									
16	0.768	0.650	808	N/A	N/A			7.0	19.2			3.0	N/A										
17	0.820	0.645	807	N/A	N/A			7.1	19.0			2.7	N/A										
18	0.784	0.805	1050	N/A	N/A			7.2	19.3			1.8	N/A		<1.8								
19	0.756	0.791	1221	N/A	N/A			7.1	18.9			1.9	N/A			15:20	6.8	19.4	13.7	15:30	6.8	18.9	10.9
20	0.745	0.783	968	N/A	N/A			7.4	18.4			2.2	N/A										
21	0.762	0.796	971	N/A	N/A			7.0	17.7			2.3	N/A										
22	0.730	0.791	1004	N/A	N/A	460	320	7.0	17.6	0.0	0.0	2.7	N/A	<0.1									
23	0.750	0.635	777	N/A	N/A			7.0	17.8			2.7	N/A										
24	0.812	0.634	827	N/A	N/A			7.3	18.2			1.1	N/A										
25	0.856	0.770	1732	N/A	N/A			7.1	18.1			1.2	N/A		<1.8								
26	0.776	0.748	1020	N/A	N/A			7.0	19.3			2.1	N/A			15:00	8.2	20.3	8.8	15:10	7.9	19.8	8.5
27	0.762	0.740	976	N/A	N/A			7.1	17.9			2.4	N/A										
28	0.758	0.771	1013	N/A	N/A			7.1	17.6			1.9	N/A										
29	0.756	0.796	1306	N/A	N/A	460	290	7.2	17.9	0.0	2.6	2.8	N/A	<0.1									
30	0.791	0.654	802	N/A	N/A			7.0	17.6			2.9	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
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 nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.30	290	2.10	3.30	ND	40	49	340

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
150	100	ND	154	0.4

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
1200	190	ND	859	0.7

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	3	20	99	1	8	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: October 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.849	0.648	812	N/A	N/A			7.1	17.4			2.8	N/A										
2	0.769	0.819	992	N/A	N/A			7.1	17.1			2.8	N/A		<1.8	16:00	8.4	18.7	10.2	16:10	8.1	17.7	10.4
3	0.756	0.813	976	N/A	N/A			7.2	17.6			3.3	N/A										
4	0.751	0.838	966	N/A	N/A			7.1	17.4			3.3	N/A										
5	0.739	0.800	947	N/A	N/A			7.1	17.8			3.1	N/A										
6	0.742	0.806	960	N/A	N/A	520	390	7.1	18.0	0.0	2.5	3.2	N/A	<0.1									
7	0.765	0.644	810	N/A	N/A			7.1	17.8			2.9	N/A										
8	0.823	0.623	778	N/A	N/A			7.1	17.6			2.9	N/A										
9	0.798	0.607	766	N/A	N/A			7.1	17.6			2.2	N/A										
10	0.790	0.777	947	N/A	N/A			7.1	17.1			1.7	N/A		<1.8	15:00	7.9	17.5	8.6	15:10	7.7	17.5	7.8
11	0.790	0.773	970	N/A	N/A			7.1	17.2			1.7	N/A										
12	0.757	0.801	996	N/A	N/A			7.1	17.0			1.9	N/A										
13	0.750	0.774	952	N/A	N/A	310	220	7.1	16.6	2.1	0.0	2.3	N/A	<0.1									
14	0.773	0.609	769	N/A	N/A			7.1	16.7			1.7	N/A										
15	0.828	0.607	788	N/A	N/A			7.1	16.8			1.5	N/A										
16	0.793	0.783	977	N/A	N/A			7.0	17.1			1.6	N/A		<1.8								
17	0.792	0.752	939	N/A	N/A			7.1	17.6			1.6	N/A										
18	0.766	0.803	1123	N/A	N/A			7.0	17.3			0.9	N/A										
19	0.757	0.799	966	N/A	N/A			7.0	16.8			1.1	N/A			14:10	8.0	17.8	9.8	14:20	8.0	16.9	9.5
20	0.753	0.811	993	N/A	N/A	310	220	7.0	16.8	3.7	0.0	1.9	N/A	<0.1									
21	0.763	0.614	786	N/A	N/A			7.0	16.9			1.5	N/A										
22	0.862	0.613	794	N/A	N/A			7.0	17.3			1.4	N/A										
23	0.808	0.803	1038	N/A	N/A			7.1	17.2			1.9	N/A		<1.8								
24	0.773	0.761	939	N/A	N/A			7.1	17.0			2.2	N/A			13:35	8.1	17.0	9.9	13:48	8.1	17.7	10.3
25	0.772	0.731	912	N/A	N/A			7.1	16.8			2.3	N/A										
26	0.769	0.724	916	N/A	N/A			7.1	16.3			2.5	N/A										
27	0.756	0.728	917	N/A	N/A	360	250	7.3	10.5	6.8	2.6	1.7	N/A	<0.1									
28	0.767	0.603	770	N/A	N/A			7.1	14.7			2.8	N/A										
29	0.827	0.602	768	N/A	N/A			7.1	14.7			2.6	N/A										
30	0.780	0.730	908	N/A	N/A			7.0	14.5			2.7	N/A		<1.8								
31	0.725	0.732	900	N/A	N/A			7.1	14.7			2.6	N/A			14:20	8.1	14.8	10.7	14:30	7.9	14.1	10.6

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
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 nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.60	290	1.00	2.20	ND	40	48	330

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	6.2

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	100	ND	166	0.3

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
4600	910	ND	1240	0.6

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	3	20	99	1	8	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:River is low at location RSW-002 testing area. Water is stagnant___

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: November 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.787	0.741	893	N/A	N/A			7.1	14.6			2.6	N/A			16:00	7.9	14.9	10.8	16:10	7.8	14.6	10.4
2	0.777	0.738	905	N/A	N/A			7.1	15.3			2.5	N/A										
3	0.764	0.800	1193	N/A	N/A	350	350	7.1	15.5	5.8	2.7	2.5	N/A	<0.1									
4	0.803	0.587	781	N/A	N/A			7.1	15.3			2.3	N/A										
5	0.898	0.577	762	N/A	N/A			7.0	16.2			2.5	N/A										
6	0.876	0.632	855	N/A	N/A			7.2	16.2			2.6	N/A		<1.8								
7	0.809	0.739	1009	N/A	N/A			7.2	15.4			2.7	N/A			13:12	7.8	15.5	10.2	13:25	7.7	14.6	10.1
8	0.768	0.822	961	N/A	N/A			7.0	15.2			2.8	N/A										
9	0.739	0.871	976	N/A	N/A	350	240	7.0	14.7	7.2	3.4	2.9	N/A										
10	0.768	0.768	844	N/A	N/A			7.0	15.1			2.0	N/A	<0.1									
11	0.766	0.757	864	N/A	N/A			7.0	14.8			2.2	N/A										
12	0.826	0.747	864	N/A	N/A			7.0	14.7			2.0	N/A										
13	0.772	0.826	999	N/A	N/A			7.1	15.0			1.9	N/A		<1.8								
14	0.776	0.969	1066	N/A	N/A			7.1	15.2			2.3	N/A			15:30	7.8	14.4	9.9	15:40	7.8	14.1	9.7
15	0.792	0.982	1065	N/A	N/A			7.0	15.3			2.2	N/A										
16	0.762	0.931	1016	N/A	N/A			7.0	15.6			2.2	N/A										
17	0.754	0.983	1094	N/A	N/A	510	320	7.0	15.3	0.0	0.0	2.1	N/A	<0.1									
18	0.779	0.867	996	N/A	N/A			7.0	15.8			2.2	N/A										
19	0.829	0.864	919	N/A	N/A			7.1	15.1			2.3	N/A										
20	0.778	0.951	1060	N/A	N/A			7.0	14.2			2.3	N/A		<1.8								
21	0.761	0.993	1118	N/A	N/A			7.0	14.2			2.3	N/A			11:10	7.8	11.4	10.2	11:35	7.8	11.4	10.8
22	0.767	0.974	1049	N/A	N/A	440	330	7.0	14.2	5.6	0.0	2.4	N/A	<0.1									
23	0.804	0.865	944	N/A	N/A			7.1	14.2			2.3	N/A										
24	0.737	0.869	918	N/A	N/A			7.1	13.8			2.5	N/A										
25	0.754	0.876	910	N/A	N/A			7.1	13.0			2.6	N/A										
26	0.825	0.875	915	N/A	N/A			7.1	12.5			2.5	N/A										
27	0.765	0.941	969	N/A	N/A			7.1	12.4			2.4	N/A		<1.8								
28	0.742	0.922	947	N/A	N/A			7.1	12.2			2.4	N/A			14:15	8.1	11.7	12.0	14:27	8.0	11.1	11.5
29	0.747	0.982	1032	N/A	N/A			7.1	12.3			2.5	N/A										
30	0.738	0.982	1046	N/A	N/A			7.0	12.7			2.6	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
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 nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
1.40	310	1.3	6.4	ND	39	50	330

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
350	140	ND	192	0.5

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
1500	330	ND	327	0.6

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	6.2

BOD & TSS	BOD	BOD	BOD	TSS	TSS	TSS
	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	5	34	99	2	11	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: December 2023

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
	FLOW	FLOW	MAXIMUM	RIVER	RIVER	B.O.D.	TSS		(C°)	B.O.D.	TSS		RIVER	SETTLEABLE	TOTAL								
DATE	M.G.D.	M.G.D.	GPM	CFS	Dilution	mg/L	mg/L	pH	TEMP	mg/L	mg/L	CL_2 RES.	CL_2 RES	SOLIDS	COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.789	1.012	1040	110	N/A	370	260	7.1	13.4	5.8	0.0	2.5	N/A	<0.1									
2	1.015	0.924	894	288	N/A			7.0	13.2			2.4	N/A										
3	1.104	0.894	1123	6020	N/A			7.0	13.6			2.8	N/A										
4	0.945	0.971	1006	2100	N/A			7.1	14.0			2.7	N/A		34	10:10	7.6	12.6	10.7	10:20	7.6	12.6	10.4
5	0.892	0.974	971	1440	N/A			7.1	14.3			2.5	N/A										
6	0.974	1.409	1691	1080	287			7.0	14.5			2.5	0.00	Started River Discharge									
7	1.027	1.426	1489	3330	1004			7.0	14.3			3.0	0.00										
8	0.944	1.508	1470	3090	944	270	200	6.9	13.3	2.0	2.8	2.8	0.00	<0.1									
9	0.923	1.374	1332	1800	607			7.0	13.5			2.7	0.00										
10	0.951	1.305	1284	1260	440			6.9	13.6			2.9	0.00										
11	0.878	1.334	1354	917	304			7.0	14.6			2.9	0.00		<1.8								
12	0.853	1.252	1313	757	259			7.0	13.2			3.2	0.00			16:00	7.5	12.0	10.9	16:10	7.4	11.9	10.9
13	0.847	1.332	1398	631	203			6.9	12.9			3.6	0.00										
14	0.831	1.200	1237	588	213			7.0	12.2			2.5	0.00										
15	0.830	1.282	1303	521	179	360	230	6.9	12.7	2.0	0.0	2.9	0.00	<0.1									
16	0.841	1.177	1260	474	169			7.1	12.6			2.9	0.00										
17	0.914	1.202	1362	434	143			7.0	13.0			3.0	0.00										
18	0.924	1.282	1340	855	286			7.0	13.3			2.5	0.00		<1.8								
19	1.082	1.349	1241	1860	673			7.0	14.1			2.4	0.00			10:20	7.6	13.1	10.6	10:30	7.6	12.1	10.6
20	1.094	1.397	1283	4740	1658			7.0	14.3			2.6	0.00										
21	1.004	1.414	1426	2680	844			7.0	13.7			2.5	0.00										
22	0.978	1.322	1292	1750	608	300	250	7.0	13.9	3.4	0.0	2.5	0.00	<0.1									
23	0.959	1.299	1347	1350	450			7.0	12.2			2.5	0.00										
24	0.947	1.220	1243	1110	401			7.0	11.7			0.9	0.00										
25	0.882	1.257	1287	944	329			7.0	12.5			2.2	0.00										
26	0.886	1.184	1197	806	302			7.1	12.7			2.4	0.00										
27	0.901	1.220	1273	741	261			7.1	12.7			2.3	0.00		<1.8	16:00	7.6	12.1	10.3	16:10	7.5	12.0	10.3
28	0.881	1.177	1182	957	363			7.1	13.7			2.2	0.00										
29	0.897	1.210	1323	950	322	420	370	7.2	14.4	5.0	4.0	2.5	0.00	<0.1									
30	1.027	1.271	1235	1930	701			7.1	14.3			2.4	0.00										
31	0.996	1.303	1324	3010	1020			7.2	13.1			2.3	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.22	1.4	7.4	120	6.6	ND	ND	ND	(DNQ) 0.39	N/A

MONTHLY TESTS LND-001 , REC-001 DISCHARGE TO PERC PONDS and LAND

Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
ND	310	1.40	7.40	ND	36	44	280

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
96	57	ND	104	54

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
96	57	ND	98	55

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
12/14/2023	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	6.2

	BOD	BOD	BOD	TSS	TSS	TSS
BOD & TSS	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	4	37	99	1	15	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
Average Annual 2023

	INFLUENT						EFFLUENT											RIVER RSW-001			RIVER RSW-002		
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	pH	Temp	D.O.	pH	Temp	D.O.
January	7.9	14.1	21	53	310	223	6.9	11.8	6.3	<0.1	1.32	1.1	2.1	0.00	<1.8	2.0	1.9	7.0	10.5	11.4	7.0	10.4	11.3
February	7.9	13.5	23	55	300	255	7.1	11.9	7.5	<0.1	1.77	1.3	1.8	0.00	<1.8	3.7	3.1	7.1	10.4	11.5	7.1	10.4	11.3
March	7.9	13.2	22	46	220	190	6.9	12.0	6.6	<0.1	1.49	1.3	1.9	0.00	<1.8	4.6	4.3	6.8	9.4	12.0	6.8	9.4	11.7
April	7.9	14.4	20	55	295	230	7.0	14.6	7.4	<0.1	1.14	1.4	1.8	0.00	<1.8	2.8	1.6	7.0	11.7	11.3	6.9	11.8	11.1
May	7.9	16.1	22	59	388	308	7.2	16.9	6.6	<0.1	2.14	1.6	1.8	0.00	<1.8	4.3	2.3	7.3	15.6	10.9	7.3	15.9	10.7
June	7.9	17.3	29	55	400	238	7.1	17.8	4.1	<0.1	2.27	1.0	1.9	N/A	<1.8	4.4	0.0	6.9	18.3	8.9	7.0	18.3	8.8
July	7.7	18.8	18	57	333	270	7.0	19.1	4.7	<0.1	1.88	0.9	2.2	N/A	<1.8	5.0	0.7	7.1	21.0	9.3	7.3	19.4	9.2
August	7.7	20.1	28	59	330	290	7.1	20.1	4.4	<0.1	2.20	1.9	1.5	N/A	<1.8	4.2	0.9	7.3	21.2	9.7	7.5	21.5	9.5
September	7.8	19.7	24	62	418	322	7.1	19.0	4.7	<0.1	1.61	2.4	2.3	N/A	<1.8	2.4	1.2	7.3	19.9	10.6	7.2	19.6	9.5
October	8.0	18.5	16	66	375	270	7.1	16.6	4.6	<0.1	1.63	2.4	2.2	N/A	<1.8	3.2	1.3	8.1	17.2	9.8	8.0	16.8	9.7
November	7.9	17.2	26	55	413	310	7.1	14.5	4.5	<0.1	1.75	1.7	2.4	N/A	<1.8	4.7	1.5	7.9	13.6	10.6	7.8	13.2	10.5
December	7.9	15.7	23	51	344	262	7.0	13.4	7.3	<0.1	2.12	1.2	2.6	0.00	<1.8	3.6	1.4	7.6	12.5	10.6	7.5	12.2	10.6
Average	7.9	16.6	23	56	344	264	7.1	15.6	5.7	<0.1	1.78	1.5	2.0	0.00	<1.8	3.7	1.7	7.3	15.1	10.6	7.3	14.9	10.3
Maximum	8.0	20.1	29	66	418	322	7.2	20.1	7.5	<0.1	2.27	2.4	2.6	0.00	<1.8	5.0	4.3	8.1	21.2	12.0	8.0	21.5	11.7
Minimum	7.7	13.2	16	46	220	190	6.9	11.8	4.1	<0.1	1.14	0.9	1.5	0.00	<1.8	2.0	0.0	6.8	9.4	8.9	6.8	9.4	8.8

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
January 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.0	14.8					6.9	11.3	4.4			1.1	1.7	0.00											
2	7.7	14.6					6.9	10.9	5.0			1.1	1.6	0.00											
3	8.0	14.1		48			7.0	10.5	5.0		0.86	0.8	1.6	0.00	<1.8			15:00	6.8	11.8	11.4	15:10	6.7	11.3	11.2
4	8.0	14.6		46			7.0	11.7	5.3		0.74	1.9	2.1	0.00											
5	8.0	15.0		56			6.9	11.9	6.0		0.66	1.2	2.1	0.00											
6	8.4	15.3	29	64	260	210	7.0	11.4	6.0	<0.1	0.63	0.9	1.9	0.00		0.0	1.6								
7	7.6	14.3					6.9	11.3	7.0			1.2	2.0	0.00											
8	7.4	13.4					6.9	11.4	7.3			1.2	1.8	0.00											
9	8.1	15.0		48			7.0	11.4	7.6		0.42	1.3	1.8	0.00	<1.8										
10	8.2	15.0		50			6.8	12.8	6.4		2.07	1.1	2.4	0.00				15:55	7.0	10.5	11.3	16:05	7.1	11.7	11.3
11	8.1	14.8		44			7.0	13.0	6.6		1.76	1.0	1.9	0.00											
12	8.2	15.4		52			6.8	13.4	5.9		1.74	1.0	1.7	0.00											
13	7.7	14.5	20	36	380	270	7.0	13.8	6.0	<0.1	1.72	1.1	1.8	0.00		2.7	1.4								
14	7.9	14.3					7.1	13.7	6.1			1.3	1.8	0.00											
15	7.4	13.1					6.9	12.6	5.8			1.2	1.9	0.00											
16	7.8	13.5					7.0	11.8	6.2			1.3	2.0	0.00											
17	7.5	13.6		68			6.9	11.8	6.1		0.42	1.0	1.8	0.00	<1.8										
18	8.1	14.3		56			7.0	11.8	6.0		2.07	1.1	1.8	0.00				13:20	6.9	8.3	11.5	13:30	6.9	8.1	11.2
19	8.1	14.5		50			7.0	11.9	5.8		1.83	1.0	1.7	0.00											
20	7.9	14.3	15	54	240	180	6.9	11.2	5.1	<0.1	1.94	1.1	1.9	0.00		2.7	2.0								
21	7.4	12.7					6.7	10.4	7.4			1.1	2.4	0.00											
22	7.4	12.9					7.0	11.1	7.1			1.1	2.9	0.00											
23	8.1	14.3		54			6.9	11.1	6.1		1.72	1.0	2.2	0.00	<1.8										
24	8.2	14.9		76			7.1	11.0	6.8		1.63	1.2	2.1	0.00				14:10	7.1	11.2	11.5	14:20	7.2	10.4	11.3
25	7.7	13.4		36			7.1	11.1	6.8		1.66	1.2	2.3	0.00											
26	8.1	14.5		58			6.9	11.8	6.3		1.38	1.0	1.9	0.00											
27	8.1	14.2	18	48	360	230	6.9	11.3	6.6	<0.1	1.33	1.2	2.4	0.00		2.6	2.7								
28	7.8	14.0					7.0	12.0	5.8			1.0	2.3	0.00											
29	8.0	13.9					7.0	11.8	6.1			1.1	2.4	0.00											
30	8.0	12.5		64			6.8	11.8	8.4		0.82	1.0	2.5	0.00	<1.8										
31	7.7	12.6		44			7.0	11.7	8.6		1.00	0.9	3.0	0.00											
Average	7.9	14.1	21	53	310	223	6.9	11.8	6.3	<0.1	1.32	1.1	2.1	0.00	<1.8	2.0	1.9		7.0	10.5	11.4		7.0	10.4	11.3
Maximum	8.4	15.4	29	76	380	270	7.1	13.8	8.6	<0.1	2.07	1.9	3.0	0.00	<1.8	2.7	2.7		7.1	11.8	11.5		7.2	11.7	11.3
Minimum	7.4	12.5	15	36	240	180	6.7	10.4	4.4	<0.1	0.42	0.8	1.6	0.00	<1.8	0.0	1.4		6.8	8.3	11.3		6.7	8.1	11.2

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
February 2023

	INFLUENT						EFFLUENT										RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.9	12.3		56			7.0	11.6	8.5		1.01	1.0	2.6	0.00				15:00	7.0	11.0	12.1	15:10	7.2	11.3	11.9
2	7.9	13.1		64			7.0	11.5	7.6		1.89	1.5	1.4	0.00											
3	8.2	14.1	22	42	300	230	6.9	12.1	7.4	<0.1	1.47	1.4	0.9	0.00		3.0	2.2								
4	8.1	14.2					7.2	12.1	7.6			1.3	0.9	0.00											
5	8.2	14.2					7.2	12.2	7.7			1.5	1.5	0.00											
6	7.7	14.2		58			6.9	12.8	7.9		0.63	1.7	2.0	0.00	2.0										
7	7.9	14.3		58			6.8	12.8	7.7		2.24	1.1	1.9	0.00				16:00	7.3	11.4	10.9	16:10	7.3	11.7	10.8
8	7.7	14.6		46			6.8	13.4	8.5		2.31	1.3	1.2	0.00											
9	7.9	13.4		52			7.1	12.8	8.5		2.26	1.3	1.1	0.00											
10	8.0	13.2	29	52	300	260	6.9	12.7	6.6	<0.1	1.85	1.2	2.0	0.00		3.2	3.0								
11	7.9	13.5					7.0	12.9	7.6			1.3	1.7	0.00											
12	7.9	13.9					7.1	12.2	7.0			1.0	1.0	0.00											
13	7.9	14.0		64			7.1	12.5	7.4		2.05	1.1	1.3	0.00	<1.8										
14	7.7	12.8		52			7.0	11.9	7.7		1.90	0.8	1.6	0.00				11:00	7.1	8.5	11.8	11:10	6.9	8.7	11.3
15	7.9	13.8		66			7.0	11.5	7.4		1.59	0.9	2.3	0.00											
16	8.2	14.1		70			7.2	11.7	7.9		2.09	0.9	1.1	0.00											
17	7.9	13.3	26	62	300	280	7.2	12.0	8.0	<0.1	1.69	0.7	1.3	0.00		3.6	3.0								
18	8.0	13.2					7.2	11.2	7.7			1.2	0.7	0.00											
19	7.8	13.3					7.2	11.5	7.7			1.1	0.6	0.00											
20	8.3	14.3					7.2	12.1	7.7			0.9	1.5	0.00											
21	8.1	13.9		70			7.1	12.3	7.8		1.77	0.9	2.2	0.00	<1.8			15:20	6.9	10.6	11.2	15:30	7.0	9.9	11.2
22	7.9	13.7		60			7.2	11.8	6.7		1.36	1.1	3.4	0.00											
23	7.8	12.5		58			7.2	11.1	7.8		1.62	1.1	3.0	0.00											
24	8.0	13.2	13	48	300	250	7.1	10.5	6.7	<0.1	1.90	1.3	2.7	0.00		4.8	4.1								
25	7.9	12.9					7.1	10.1	7.2			1.4	2.3	0.00											
26	7.8	12.8					7.1	10.9	7.3			1.7	2.5	0.00											
27	7.9	13.0		42			7.0	11.4	5.9		1.91	2.8	2.4	0.00	<1.8										
28	7.4	12.0		34			6.8	11.0	6.1		2.13	1.6	2.4	0.00											
Average	7.9	13.5	23	55	300	255	7.1	11.9	7.5	<0.1	1.77	1.3	1.8	0.00	<1.8	3.7	3.1		7.1	10.4	11.5		7.1	10.4	11.3
Maximum	8.3	14.6	29	70	300	280	7.2	13.4	8.5	<0.1	2.31	2.8	3.4	0.00	2.0	4.8	4.1		7.3	11.4	12.1		7.3	11.7	11.9
Minimum	7.4	12.0	13	34	300	230	6.8	10.1	5.9	<0.1	0.63	0.7	0.6	0.00	<1.8	3.0	2.2		6.9	8.5	10.9		6.9	8.7	10.8

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
March 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.9	13.4		40			6.8	11.8	6.1		2.11	1.7	2.4	0.00				11:20	6.9	9.8	11.9	11:35	6.8	9.6	12.0
2	7.5	13.0		30			7.0	11.9	7.1		2.00	1.5	1.6	0.00											
3	7.7	14.2	19	50	270	240	6.9	11.6	6.8	<0.1	1.78	1.4	1.9	0.00		4.2	3.9								
4	7.6	14.4					6.7	12.2	6.4			1.2	1.9	0.00											
5	7.7	13.3					6.9	11.9	6.5			1.0	1.7	0.00											
6	7.8	12.8		48			6.8	10.8	6.9		2.15	1.4	2.0	0.00	<1.8										
7	7.7	12.6		40			6.8	11.2	7.4		2.09	1.3	2.1	0.00				15:10	7.1	9.6	11.8	15:20	7.1	9.9	11.4
8	7.9	12.5		40			7.1	10.8	5.1		1.98	0.8	2.4	0.00											
9	7.8	12.2		32			7.0	10.9	6.8		1.55	0.8	2.4	0.00											
10	8.0	12.7	25	42	270	220	7.0	11.1	7.1	<0.1	2.68	1.0	2.1	0.00		4.6	2.6								
11	7.9	12.6					7.0	10.6	7.1			1.2	2.7	0.00											
12	7.8	12.9					6.9	11.8	6.8			1.3	2.7	0.00											
13	7.8	13.4		36			6.8	12.9	5.5		1.42	1.3	2.8	0.00	<1.8										
14	7.4	12.9		36			6.6	13.2	4.5		0.73	1.2	1.5	0.00				10:50	6.5	8.9	12.9	11:00	6.5	8.6	12.8
15	7.9	12.5		80			7.2	10.2	8.2		0.46	1.4	1.5	0.00											
16	7.6	12.2		36			6.9	11.7	7.1		1.72	1.4	1.6	0.00											
17	8.1	13.1	27	46	240	230	6.9	12.2	7.0	<0.1	1.86	1.7	1.8	0.00		4.6	5.5								
18	7.6	13.2					7.1	12.4	7.3			1.8	1.9	0.00											
19	7.7	13.2					7.0	12.7	6.8			1.8	2.0	0.00											
20	8.0	13.3		42			7.1	12.7	6.8		1.48	1.7	2.0	0.00	<1.8										
21	7.9	12.5		40			6.9	12.5	7.3		1.46	1.8	1.7	0.00				13:30	6.9	10.4	11.4	13:40	6.8	10.0	11.2
22	8.0	13.3		46			6.9	12.6	6.9		1.50	1.6	1.7	0.00											
23	8.2	13.4		52			6.9	12.7	6.9		1.68	1.7	1.6	0.00											
24	7.9	13.0	17	56	130	110	7.0	13.2	7.0	<0.1	1.42	1.3	2.2	0.00		6.0	6.1								
25	8.4	13.6					6.9	12.3	7.4			1.3	1.7	0.00											
26	7.9	13.4					6.8	12.4	7.2			1.4	1.6	0.00											
27	8.0	13.8		52			6.9	12.5	6.0		1.03	1.4	2.1	0.00	<1.8										
28	7.9	13.4		42			6.9	12.0	5.4		0.82	1.0	1.7	0.00				10:50	6.8	8.5	11.9	11:00	6.9	8.7	11.2
29	8.2	13.9		52			6.9	12.0	5.4			1.0	1.6	0.00											
30	8.2	13.9		50			6.9	12.4	5.3		1.08	0.9	1.7	0.00											
31	8.0	14.0	23	60	190	150	6.9	13.0	5.7	<0.1	1.17	1.4	1.7	0.00		3.7	3.6								
Average	7.9	13.2	22	46	220	190	6.9	12.0	6.6	<0.1	1.49	1.3	1.9	0.00	<1.8	4.6	4.3		6.8	9.4	12.0		6.8	9.4	11.7
Maximum	8.4	14.4	27	80	270	240	7.2	13.2	8.2	<0.1	2.68	1.8	2.8	0.00	<1.8	6.0	6.1		7.1	10.4	12.9		7.1	10.0	12.8
Minimum	7.4	12.2	17	30	130	110	6.6	10.2	4.5	<0.1	0.46	0.8	1.5	0.00	<1.8	3.7	2.6		6.5	8.5	11.4		6.5	8.6	11.2

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
April 2023

	INFLUENT						EFFLUENT										RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.9	13.6					6.8	12.7	5.9			0.9	1.8	0.00											
2	7.6	13.1					6.8	12.4	6.5			1.2	1.3	0.00											
3	8.1	13.4		48			6.9	12.3	5.2		1.03	1.0	1.7	0.00	<1.8			14:30	6.9	12.1	11.4	14:40	6.9	12.0	11.1
4	8.3	14.3		52			6.9	12.7	5.7		1.41	1.3	2.0	0.00											
5	8.3	14.4		74			6.8	14.4	6.2		0.17	0.7	1.1	0.00											
6	8.2	14.0		56			7.0	13.7	4.6		1.90	1.4	1.3	0.00											
7	7.9	13.8	20	48	310	210	6.9	13.4	3.8	<0.1	0.80	1.2	2.0	0.00		2.4	1.1								
8	8.1	14.0					6.9	13.6	6.7			1.3	1.3	0.00											
9	7.6	13.4					7.1	13.6	8.0			1.8	1.5	0.00											
10	7.5	13.9		34			6.9	15.8	7.9		1.84	2.4	1.9	0.00	<1.8										
11	8.0	15.3		62			7.0	15.4	6.9		1.79	1.6	1.9	0.00				8:20	6.9	11.5	11.2	8:30	6.9	11.8	11.3
12	8.0	14.3		56			6.9	14.6	7.7		1.66	1.4	1.6	0.00											
13	7.7	13.4		42			7.1	13.6	7.6		0.83	1.7	1.7	0.00											
14	8.1	14.2	22	48	270	280	7.1	14.4	5.6	<0.1	0.57	1.0	2.0	0.00		3.7	2.3								
15	7.9	14.1					6.9	14.6	8.0			0.9	1.7	0.00											
16	7.6	14.4					7.0	13.9	6.8			1.0	1.8	0.00											
17	8.0	14.3		50			6.9	14.4	8.5		1.01	2.0	2.2	0.00	<1.8										
18	7.8	14.6		64			6.9	14.1	7.6		0.75	1.5	2.1	0.00				14:00	7.1	10.6	11.8	14:10	7.0	11.2	11.3
19	7.8	14.3		60			7.0	13.8	7.9		0.88	1.2	2.1	0.00											
20	8.2	14.4		54			7.0	14.1	8.4		0.97	1.4	2.5	0.00											
21	7.9	14.9	20	42	290	210	7.0	14.9	8.9	<0.1	0.83	1.6	2.3	0.00		2.2	1.3								
22	7.6	14.0					6.9	15.5	9.7			1.7	1.7	0.00											
23	7.8	13.8					7.0	15.8	9.8			1.7	1.7	0.00											
24	8.0	15.0		62			7.1	15.7	8.6		1.32	1.8	2.6	0.00	<1.8										
25	8.1	14.6		62			7.1	15.4	7.6		0.98	1.5	2.6	0.00				9:20	6.9	12.4	10.9	9:30	6.9	12.3	10.6
26	8.1	15.2		64			7.2	16.0	8.2		1.32	1.6	1.8	0.00											
27	8.0	15.5		64			7.2	16.3	7.9		1.66	1.7	0.9	0.00											
28	8.2	15.4	17	48	310	220	7.2	16.7	8.0	<0.1	1.13	1.8	1.3	0.00		2.9	1.5								
29	7.9	15.9					7.3	17.0	8.3			1.6	1.9	0.00											
30	7.9	15.2					7.1	16.8	8.4			1.3	2.3	0.00											
Average	7.9	14.4	20	55	295	230	7.0	14.6	7.4	<0.1	1.14	1.4	1.8	0.00	<1.8	2.8	1.6		7.0	11.7	11.3		6.9	11.8	11.1
Maximum	8.3	15.9	22	74	310	280	7.3	17.0	9.8	<0.1	1.90	2.4	2.6	0.00	<1.8	3.7	2.3		7.1	12.4	11.8		7.0	12.3	11.3
Minimum	7.5	13.1	17	34	270	210	6.8	12.3	3.8	<0.1	0.17	0.7	0.9	0.00	<1.8	2.2	1.1		6.9	10.6	10.9		6.9	11.2	10.6

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
May 2023

	INFLUENT						EFFLUENT										RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.6	14.7		44			7.2	16.1	8.3		1.1	1.4	2.7	0.00	<1.8			14:30	7.0	13.5	10.6	14:40	7.0	14	10.1
2	8.0	15.2		58			7.3	15.8	8.3		2.11	2.1	3.0	0.00											
3	8.0	15.1		52			7.3	15.2	9.2		1.84	1.8	2.5	0.00											
4	8.1	15.1		58			7.2	16.2	7.6		2.56	2.5	1.2	0.00											
5	8.1	15.5	21	54	510	440	7.2	15.2	7.6	<0.1	2.42	2.1	1.2	0.00		3.0	2.5								
6	7.9	14.9					7.2	15.7	8.4			2.7	1.5	0.00											
7	8.1	15.2					7.2	16.2	7.8			2.2	2.7	0.00											
8	8.2	15.2		64			7.0	15.7	7.4		1.66	1.8	3.1	0.00	<1.8										
9	8.3	17.0		70			7.0	16.7	7.9		0.11	0.5	0.7	0.00				8:05	7.2	14.1	11.2	8:15	7.3	14.4	10.9
10	8.3	16.2		70			7.2	16.4	7.6		2.65	2.0	1.4	0.00											
11	8.3	16.8		78			7.3	17.0	7.7		2.55	2.3	1.0	0.00											
12	7.8	15.2	26	42	330	290	7.0	15.4	7.3	<0.1	2.06	2.4	1.2	0.00		3.4	2.6								
13	7.5	16.4					7.2	16.7	6.6	Land Discharge		0.4	0.7	N/A											
14	7.5	15.5					7.2	17.1	6.3			1.9	0.7	N/A											
15	8.1	17.1		80			7.3	17.9	6.4		2.60	1.9	1.8	N/A	<1..8										
16	7.7	16.4		50			7.3	17.6	6.7		2.63	1.9	1.9	N/A				14:00	7.4	16.1	11.6	14:10	7.4	16.7	11.3
17	7.9	16.5		58			7.2	17.7	6.4		1.87	1.6	2.1	N/A											
18	7.7	16.7		64			7.1	17.7	6.4		2.82	1.2	2.0	N/A											
19	7.6	15.3	24	50	350	250	7.3	17.6	5.4	<0.1	1.84	1.2	1.9	N/A		5.2	2.2								
20	7.9	16.5					7.0	17.1	6.6			1.6	1.6	N/A											
21	8.0	16.8					7.2	17.4	6.2			1.5	1.7	N/A											
22	8.1	17.4		60			7.2	18.3	5.7		2.26	1.1	2.1	N/A	<1.8										
23	8.2	16.9		78			7.2	17.5	6.5		2.25	1.0	2.0	N/A				8:20	7.2	17.1	11.4	8:30	7.3	17.0	11.5
24	7.8	16.4		54			7.2	17.6	5.3		2.12	0.9	1.9	N/A											
25	7.9	16.3		54			7.0	17.6	5.4		2.42	1.0	1.9	N/A											
26	8.1	16.5	18	48	360	250	7.2	17.4	5.4	<0.1	1.95	1.2	1.7	N/A		5.4	1.8								
27	8.0	16.7					7.0	18.2	4.7			0.9	1.9	N/A											
28	7.6	16.1					7.0	17.4	4.7			1.5	2.1	N/A											
29	7.5	15.5					7.0	17.5	5.6			1.2	2.2	N/A											
30	8.0	16.6		56			7.2	17.3	4.3		2.48	1.4	2.0	N/A	<1.8			13:20	7.5	17.0	9.7	13:30	7.5	17.3	9.5
31	8.1	16.7		52			7.2	17.2	4.6		2.78	1.6	2.0	N/A											
Average	7.9	16.1	22	59	388	308	7.2	16.9	6.6	<0.1	2.14	1.6	1.8	0.00	<1.8	4.3	2.3		7.3	15.6	10.9		7.3	15.9	10.7
Maximum	8.3	17.4	26	80	510	440	7.3	18.3	9.2	<0.1	2.82	2.7	3.1	0.00	<1.8	5.4	2.6		7.5	17.1	11.6		7.5	17.3	11.5
Minimum	7.5	14.7	18	42	330	250	7.0	15.2	4.3	<0.1	0.11	0.4	0.7	0.00	<1.8	3.0	1.8		7.0	13.5	9.7		7.0	14.0	9.5

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
June 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.1	16.9		50			7.2	17.5	4.7		2.72	1.4	1.8	N/A											
2	8.0	16.8	39	51	280	220	7.2	17.5	4.5	<0.1	2.61	1.3	1.8	N/A		0.0	0.0								
3	7.8	16.6					7.1	17.6	4.4			1.3	2.0	N/A											
4	8.0	16.7					7.2	17.6	3.4			1.2	2.0	N/A											
5	7.5	16.3		36			7.3	17.9	4.5		2.25	1.4	1.9	N/A	<1.8			16:00	6.7	18.7	9.1	16:10	6.9	19.7	9.0
6	8.4	17.5		80			7.2	17.8	4.5		2.94	1.4	1.7	N/A											
7	8.4	17.8		76			7.2	17.8	4.5		2.84	1.3	1.8	N/A											
8	8.5	18.0		74			7.3	17.7	4.7		2.90	1.3	1.8	N/A											
9	7.8	17.5	34	54	300	230	7.2	17.5	4.4	<0.1	2.52	1.1	2.0	N/A		4.8	0.0								
10	7.6	16.2					7.2	17.5	4.7			1.1	2.0	N/A											
11	7.5	17.1					7.2	17.7	4.5			1.1	1.9	N/A											
12	8.0	17.5		62			7.2	17.7	4.5		2.24	1.0	1.8	N/A	<1.8										
13	8.1	17.2		98			7.2	17.8	5.3		2.50	1.0	2.5	N/A				13:40	7.0	19.7	8.7	13:52	7.1	19.4	9.4
14	8.0	17.3		70			7.2	17.8	4.7		2.54	1.0	1.8	N/A											
15	7.9	18.3		66			7.1	18.2	5.6		2.12	0.9	1.7	N/A											
16	7.4	17.2	25	30	780	300	7.1	17.9	3.3	<0.1	2.02	0.8	1.8	N/A		6.0	0.0								
17	7.7	17.9					7.0	18.1	3.4			0.9	2.5	N/A											
18	8.1	18.8					7.1	18.3	3.4			0.9	2.2	N/A											
19	8.2	18.5		68			7.1	17.7	3.6		1.61	0.8	2.1	N/A	<1.8										
20	8.0	17.5		54			7.1	17.8	3.1		1.69	0.7	1.7	N/A				7:35	7.2	16.7	9.1	7:45	7.1	16.4	8.7
21	7.9	17.5		58			7.2	17.9	3.6		1.79	0.9	1.6	N/A											
22	7.4	16.9		32			7.2	18.1	3.2		2.24	0.8	1.7	N/A											
23	8.1	17.6	25	50	300	210	7.0	18.0	3.2	<0.1	2.33	0.8	2.0	N/A		6.6	0.0								
24	8.3	17.9					7.1	18.0	4.2			0.8	1.7	N/A											
25	7.7	17.3					7.1	18.0	4.4			0.8	1.7	N/A											
26	7.2	16.5		38			7.0	17.5	3.2		2.62	0.8	1.9	N/A	<1.8										
27	8.1	18.2		68			7.0	17.5	3.2		2.56	1.0	2.0	N/A				11:10	6.8	18.0	8.8	11:20	6.7	17.8	8.1
28	7.4	16.8		30			7.1	17.8	3.0		1.40	0.6	1.7	N/A											
29	7.3	17.1		34			6.9	17.8	3.1		1.91	0.7	1.7	N/A											
30	7.6	15.5	22	40	340	230	7.3	18.4	4.9	<0.1	1.63	0.7	2.1	N/A		4.6	0.0								
Average	7.9	17.3	29	55	400	238	7.1	17.8	4.1	<0.1	2.27	1.0	1.9		<1.8	4.4	0.0		6.9	18.3	8.9		7.0	18.3	8.8
Maximum	8.5	18.8	39	98	780	300	7.3	18.4	5.6	<0.1	2.94	1.4	2.5		<1.8	6.6	0.0		7.2	19.7	9.1		7.1	19.7	9.4
Minimum	7.2	15.5	22	30	280	210	6.9	17.5	3.0	<0.1	1.40	0.6	1.6		<1.8	0.0	0.0		6.7	16.7	8.7		6.7	16.4	8.1

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
July 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.4	17.2					7.0	18.3	4.5			0.7	1.8	N/A											
2	7.8	17.9					7.1	18.6	4.5			0.7	1.3	N/A											
3	7.8	18.2		56			7.2	18.2	6.7		2.49	0.8	1.3	N/A											
4	8.0	17.1					7.1	18.8	4.6			0.8	1.2	N/A											
5	8.1	18.2		72			7.2	17.8	5.4		2.41	0.7	1.1	N/A	<1.8										
6	8.0	18.0		52			7.2	18.0	6.7		2.18	0.8	1.0	N/A				8:20	7.0	18.5	8.4	8:25	7.1	17.8	9.4
7	7.8	18.1	17	50	310	240	7.2	18.2	5.6	<0.1	1.45	0.8	1.3	N/A		4.2	0.0								
8	7.8	18.3					7.0	18.6	5.0			1.0	1.7	N/A											
9	8.0	18.1					7.1	18.8	4.1			0.8	1.9	N/A											
10	7.7	18.2		54			7.1	18.0	4.5		1.78	1.1	1.4	N/A	<1.8										
11	7.9	18.1		50			N/A	N/A	N/A		N/A	N/A	Washed CCB					15:00	7.2	19.4	10.2	15:05	7.3	20.1	9.6
12	7.7	18.7		66			N/A	N/A	N/A		N/A	N/A	Washed CCB												
13	7.6	19.0		60			6.7	18.4	5.2		0.19	0.5	1.5	N/A											
14	8.3	19.7	23	42	320	250	6.9	18.9	4.0	<0.1	0.71	1.0	0.7	N/A		5.4	2.8								
15	7.4	19.0					6.9	19.3	4.4			1.1	0.8	N/A											
16	7.5	18.5					6.8	19.1	3.6			0.9	2.7	N/A											
17	7.8	19.6		72			6.8	19.4	4.2		2.27	1.3	2.8	N/A	<1.8										
18	7.5	18.8		44			7.0	19.6	5.0		2.14	1.3	2.8	N/A				16:00	7.1	23.5	9.0	16:10	7.2	19.1	8.9
19	7.7	19.7		64			7.1	19.7	5.8		2.23	1.0	3.1	N/A											
20	8.2	19.3		76			7.1	19.6	5.0		2.16	1.1	3.2	N/A											
21	7.7	17.9	15	56	320	270	7.1	19.1	3.4	<0.1	1.55	1.0	3.1	N/A		6.7	0.0								
22	7.5	18.9					7.2	19.2	4.6			0.8	3.4	N/A											
23	7.6	18.9					7.1	19.3	3.9			0.7	3.3	N/A											
24	7.6	19.6		56			6.7	19.9	4.4		2.31	0.7	3.0	N/A	<1.8										
25	7.5	20.0		42			7.3	20.9	7.2		2.41	0.9	3.2	N/A				10:00	7.2	22.6	9.4	10:10	7.4	20.5	9.0
26	7.7	19.6		56			7.1	19.8	5.6		2.10	1.0	3.2	N/A											
27	7.6	19.8		64			7.1	20.0	5.7		1.92	0.8	3.1	N/A											
28	7.9	19.2	16	58	380	320	7.1	19.5	3.9	<0.1	1.58	1.1	2.2	N/A		3.5	0.0								
29	7.8	19.4					7.0	20.1	3.4			0.8	2.6	N/A											
30	7.6	19.6					7.0	20.1	3.6			0.7	2.7	N/A											
31	7.6	19.2		46			7.0	19.7	2.4			0.6	1.9	N/A	<1.8										
Average	7.7	18.8	18	57	333	270	7.0	19.1	4.7	<0.1	1.88	0.9	2.2		<1.8	5.0	0.7		7.1	21.0	9.3		7.3	19.4	9.2
Maximum	8.3	20.0	23	76	380	320	7.3	20.9	7.2	<0.1	2.49	1.3	3.4		<1.8	6.7	2.8		7.2	23.5	10.2		7.4	20.5	9.6
Minimum	7.4	17.1	15	42	310	240	6.7	17.8	2.4	<0.1	0.19	0.5	0.7		<1.8	3.5	0.0		7.0	18.5	8.4		7.1	17.8	8.9

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
August 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL_2 Res	River CL_2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.4	19.3		44			7.0	19.9	4.6		2.83	0.8	2.3	N/A				15:00	6.9	22.1	9.4	15:10	7.4	22.5	9.6
2	7.7	20.1		62			6.9	20.2	4.5		2.97	1.0	3.1	N/A											
3	7.6	20.0		66			7.1	19.9	6.1		3.32	1.3	1.1	N/A											
4	7.4	18.8	30	64	360	320	7.3	20.0	4.0	<0.1	1.56	0.9	0.9	N/A		3.1	0.0								
5	7.6	19.7					7.1	20.2	4.0			1.0	0.9	N/A											
6	8.2	19.9					7.2	20.0	4.2			1.2	0.5	N/A											
7	8.1	20.2		74			7.2	20.0	3.8		2.16	2.0	1.1	N/A	<1.8										
8	7.4	19.2		40			7.1	20.0	4.0		2.12	1.1	1.4	N/A				10:44	6.8	20.5	9.3	10:53	6.9	21.0	9.3
9	7.8	20.4		80			7.1	20.2	3.7		2.20	1.5	1.5	N/A											
10	7.7	20.6		54			7.1	20.7	5.4		2.13	1.3	0.9	N/A											
11	7.5	19.8	42	50	360	320	7.0	20.5	3.7	<0.1	2.12	1.3	0.9	N/A		3.4	lab error								
12	7.8	20.1					7.3	20.6	4.0			2.1	0.4	N/A											
13	8.0	20.1					7.2	20.6	3.8			1.4	1.9	N/A											
14	8.2	20.6		74			7.2	20.2	4.1		2.20	1.1	2.1	N/A	<1.8										
15	7.6	21.6		62			7.0	21.0	5.4		2.01	1.1	1.9	N/A				16:00	8	24.4	10.4	16:10	8.1	24.3	10
16	7.9	21.8		64			7.0	21.2	5.4		1.99	1.4	1.8	N/A											
17	7.4	19.8		34			7.1	21.1	5.0		2.16	1.3	1.3	N/A											
18	7.3	19.8	22	40	290	270	7.0	20.3	3.0	<0.1	2.31	1.4	1.2	N/A		5.0	0.0								
19	7.7	19.8					7.0	19.8	3.4			1.1	1.7	N/A											
20	7.7	19.2					7.1	19.4	5.7			1.1	1.9	N/A											
21	7.4	19.5		38			7.2	19.5	5.6		2.04	1.3	2.0	N/A	<1.8										
22	7.9	20.9		64			7.2	19.5	5.4		1.89	1.3	2.7	N/A				8:30	7.2	18.8	9.7	8:40	7.4	18.4	9.6
23	7.7	20.0		60			7.1	19.1	2.8		2.14	1.7	2.4	N/A											
24	7.7	20.8		72			7.0	19.9	4.9		2.10	2.2	1.5	N/A											
25	7.5	20.1	18	50	310	250	7.2	19.3	4.5	<0.1	1.56	3.1	1.2	N/A		5.1	2.8								
26	7.4	20.2					6.9	19.9	4.6			2.0	1.1	N/A											
27	7.6	19.7					7.1	18.8	4.4			1.7	1.7	N/A											
28	8.1	20.5		76			7.2	19.2	4.4		2.32	2.9	0.5	N/A											
29	7.4	19.5		42			7.2	19.9	4.5		2.11	6.2	1.0	N/A	<1.8			14:00	7.5	20.1	9.6	14:10	7.6	21.2	9.1
30	7.9	21.4		66			7.1	20.7	4.5		2.08	6.1	0.7	N/A											
31	7.6	20.1		76			7.2	20.3	4.2		2.32	4.4	1.7	N/A											
Average	7.7	20.1	28	59	330	290	7.1	20.1	4.4	<0.1	2.20	1.9	1.5		<1.8	4.2	0.9		7.3	21.2	9.7		7.5	21.5	9.5
Maximum	8.2	21.8	42	80	360	320	7.3	21.2	6.1	<0.1	3.32	6.2	3.1		<1.8	5.1	2.8		8.0	24.4	10.4		8.1	24.3	10.0
Minimum	7.3	18.8	18	34	290	250	6.9	18.8	2.8	<0.1	1.56	0.8	0.4		<1.8	3.1	0.0		6.8	18.8	9.3		6.9	18.4	9.1

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
September 2023

	INFLUENT						EFFLUENT										RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.0	20.8	20	48	340	290	6.9	19.9	3.7	<0.1	1.55	3.2	2.2	N/A		4.8	0.0								
2	7.4	19.5					7.0	20.3	3.6			1.6	2.0	N/A											
3	7.7	19.8					7.0	20.4	4.8			2.5	2.2	N/A											
4	7.6	19.9					7.1	20.5	4.7			2.1	1.6	N/A											
5	7.7	21.0		64			7.1	20.1	4.3		2.09	2.0	4.2	N/A	<1.8			9:15	7.0	18.1	8.6	9:25	7.0	17.7	8.5
6	7.6	18.9		46			7.0	19.7	4.7		2.66	2.9	3.0	N/A											
7	7.7	19.1		64			7.0	19.7	6.3		1.85	1.4	2.2	N/A											
8	7.7	19.6	25	66	340	260	6.9	20.3	4.6	<0.1	1.84	1.4	1.6	N/A		0.0	0.0								
9							No Discharge Washed CCB							N/A											
10							No Discharge Washed CCB							N/A											
11	7.7	20.3		62			No Discharge Washed CCB							N/A											
12	7.6	19.8		58			No Discharge Washed CCB							N/A				15:30	7.3	21.6	11.1	15:40	7.1	22	9.9
13	7.7	19.8		64			7.1	20.1	4.1		0.31	1.8	0.9	N/A											
14	7.6	19.9		64			7.2	19.5	4.8		1.79	1.4	3.7	N/A	<1.8										
15	7.6	19.9	30	68	490	450	6.9	19.0	3.7	<0.1	1.78	1.7	3.1	N/A		7.2	3.3								
16	7.7	19.2					7.0	19.2	4.7			1.9	3.0	N/A											
17	7.9	19.0					7.1	19.0	4.0			2.1	2.7	N/A											
18	7.7	19.3		54			7.2	19.3	7.3		1.85	2.3	1.8	N/A	<1.8										
19	7.8	19.7		64			7.1	18.9	4.4		1.84	2.3	1.9	N/A				15:20	6.8	19.4	13.7	15:30	6.8	18.9	10.9
20	7.7	19.8		62			7.4	18.4	4.7		2.04	3.6	2.2	N/A											
21	7.6	18.3		48			7.0	17.7	4.6		2.31	4.0	2.3	N/A											
22	7.5	19.0	18	52	460	320	7.0	17.6	4.5	<0.1	2.21	3.5	2.7	N/A		0.0	0.0								
23	8.3	20.3					7.0	17.8	5.1			3.6	2.7	N/A											
24	8.2	20.8					7.3	18.2	4.9			4.6	1.1	N/A											
25	7.8	19.8		70			7.1	18.1	3.4		1.70	3.0	1.2	N/A	<1.8										
26	7.6	20.4		60			7.0	19.3	4.4		0.24	2.2	2.1	N/A				15:00	8.2	20.3	8.8	15:10	7.9	19.8	8.5
27	8.1	19.7		72			7.1	17.9	5.0		0.93	2.5	2.4	N/A											
28	8.6	19.9		90			7.1	17.6	5.5		1.00	2.2	1.9	N/A											
29	8.0	19.4	26	60	460	290	7.2	17.9	6.0	<0.1	0.91	2.1	2.8	N/A		0.0	2.6								
30	8.0	19.3					7.0	17.6	4.1			1.3	2.9	N/A											
Average	7.8	19.7	24	62	418	322	7.1	19.0	4.7	<0.1	1.61	2.4	2.3		<1.8	2.4	1.2		7.3	19.9	10.6		7.2	19.6	9.5
Maximum	8.6	21.0	30	90	490	450	7.4	20.5	7.3	0.0	2.66	4.6	4.2		<1.8	7.2	3.3		8.2	21.6	13.7		7.9	22.0	10.9
Minimum	7.4	18.3	18	46	340	260	6.9	17.6	3.4	0.0	0.24	1.3	0.9		<1.8	0.0	0.0		6.8	18.1	8.6		6.8	17.7	8.5

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
October 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.0	18.7					7.1	17.4	5.1			2.1	2.80	N/A											
2	8.4	19.3		86			7.1	17.1	3.7		1.40	1.6	2.80	N/A	<1.8			16:00	8.4	18.7	10.2	16:10	8.1	17.7	10.4
3	8.1	19.4		68			7.2	17.6	5.3		1.17	1.6	3.30	N/A											
4	8.4	20.0		82			7.1	17.4	4.8		1.29	1.5	3.30	N/A											
5	8.1	19.8		70			7.1	17.8	5.1		1.32	1.2	3.10	N/A											
6	8.4	20.4	22	52	520	390	7.1	18.0	5.0	<0.1	0.84	1.5	3.20	N/A		0.0	2.5								
7	8.0	19.2					7.1	17.8	3.7			1.5	2.90	N/A											
8	8.5	19.3					7.1	17.6	3.4			1.4	2.90	N/A											
9	7.9	19.2					7.1	17.6	3.0			1.7	2.20	N/A											
10	7.7	18.2		50			7.1	17.1	4.6		1.17	1.7	1.70	N/A	<1.8			15:00	7.9	17.5	8.6	15:10	7.7	17.5	7.8
11	7.9	18.4		52			7.1	17.2	4.3		1.18	1.9	1.70	N/A											
12	7.9	19.2		64			7.1	17.0	4.3		1.50	3.1	1.90	N/A											
13	8.0	19.0	16	60	310	220	7.1	16.6	4.6	<0.1	1.35	2.7	2.30	N/A		2.1	0.0								
14	7.6	18.2					7.1	16.7	4.1			2.1	1.70	N/A											
15	7.8	18.9					7.1	16.8	4.4			2.2	1.50	N/A											
16	7.8	19.3		74			7.0	17.1	4.2		1.21	2.8	1.60	N/A	<1.8										
17	7.9	19.1		60			7.1	17.6	4.2		1.56	2.7	1.60	N/A											
18	8.1	19.0		70			7.0	17.3	4.7		1.97	2.3	0.90	N/A											
19	8.4	18.0		84			7.0	16.8	4.0		1.98	2.7	1.10	N/A				14:10	8.0	17.8	9.8	14:20	8.0	16.9	9.5
20	8.1	18.6	13	66	310	220	7.0	16.8	4.3	<0.1	1.79	3.1	1.90	N/A		3.7	0.0								
21	7.9	18.3					7.0	16.9	4.0			2.6	1.50	N/A											
22	7.9	18.7					7.0	17.3	3.2			3.1	1.40	N/A											
23	8.0	18.9		64			7.1	17.2	3.5		1.98	3.2	1.90	N/A	<1.8										
24	8.1	18.8		60			7.1	17.0	4.0		2.36	3.4	2.20	N/A				13:35	8.1	17	9.9	13:48	8.1	17.7	10.3
25	8.4	19.6		84			7.1	16.8	3.6		2.16	3.4	2.30	N/A											
26	8.2	18.5		64			7.1	16.3	4.3		2.24	2.6	2.50	N/A											
27	7.6	11.2	12	52	360	250	7.3	10.5	6.9	<0.1	1.97	2.2	1.70	N/A		6.8	2.6								
28	8.0	16.9					7.1	14.7	6.2			2.8	2.80	N/A											
29	7.4	16.7					7.1	14.7	7.0			2.8	2.60	N/A											
30	8.1	18.1		58			7.0	14.5	6.3		1.93	3.0	2.70	N/A	<1.8										
31	7.7	17.3		58			7.1	14.7	5.9		1.90	2.8	2.60	N/A				14:20	8.1	14.8	10.7	14:30	7.9	14.1	10.6
Average	8.0	18.5	16	66	375	270	7.1	16.6	4.6	<0.1	1.63	2.4	2.2		<1.8	3.2	1.3		8.1	17.2	9.8		8.0	16.8	9.7
Maximum	8.5	20.4	22	86	520	390	7.3	18.0	7.0	<0.1	2.36	3.4	3.3		<1.8	6.8	2.6		8.4	18.7	10.7		8.1	17.7	10.6
Minimum	7.4	11.2	12	50	310	220	7.0	10.5	3.0	<0.1	0.84	1.2	0.9		<1.8	0.0	0.0		7.9	14.8	8.6		7.7	14.1	7.8

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
November 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL/2 Res	River CL/2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.1	18.1		30			7.1	14.6	6.8		1.78	2.9	2.6	N/A				16:00	7.9	14.9	10.8	16:10	7.8	14.6	10.4
2	8.1	17.5		60			7.1	15.3	6.3		1.80	2.3	2.5	N/A											
3	8.0	18.8	18	62	350	350	7.1	15.5	6.1	<0.1	1.31	2.6	2.5	N/A		5.8	2.7								
4	8.1	18.6					7.1	15.3	6.8			2.6	2.3	N/A											
5	8.0	18.1					7.0	16.2	4.0			2.4	2.5	N/A											
6	8.2	18.2		62			7.2	16.2	6.1		1.52	2.3	2.6	N/A	<1.8										
7	7.6	16.8		36			7.2	15.4	5.2		1.51	2.3	2.7	N/A				13:12	7.8	15.5	10.2	13:25	7.7	14.6	10.1
8	7.5	16.6		40			7.0	15.2	4.2		1.70	1.9	2.8	N/A											
9	7.8	17.1		54	350	240	7.0	14.7	4.2		1.67	2.0	2.9	N/A		7.2	3.4								
10	8.1	16.8	20				7.0	15.1	3.7	<0.1		2.5	2.0	N/A											
11	8.0	17.2					7.0	14.8	3.3			1.6	2.2	N/A											
12	7.9	18.1					7.0	14.7	4.5			2.4	2.0	N/A											
13	8.0	17.5		76			7.1	15.0	4.5		1.44	2.0	1.9	N/A	<1.8										
14	7.9	17.4		58			7.1	15.2	5.3		1.75	1.7	2.3	N/A				15:30	7.8	14.4	9.9	15:40	7.8	14.1	9.7
15	8.1	17.6		60			7.0	15.3	3.4		1.71	1.5	2.2	N/A											
16	8.1	17.8		64			7.0	15.6	3.6		1.66	1.8	2.2	N/A											
17	7.6	17.1	34	46	510	320	7.0	15.3	3.1	<0.1	1.61	1.8	2.1	N/A		0.0	0.0								
18	8.0	17.4					7.0	15.8	3.9			1.6	2.2	N/A											
19	8.4	18.1					7.1	15.1	3.9			1.4	2.3	N/A											
20	7.8	17.3		64			7.0	14.2	3.7		2.08	1.6	2.3	N/A	<1.8										
21	7.4	16.4		36			7.0	14.2	3.1		1.69	1.4	2.3	N/A				11:10	7.8	11.4	10.2	11:35	7.8	11.4	10.8
22	7.5	16.6	31	42	440	330	7.0	14.2	3.1	<0.1	2.00	1.4	2.4	N/A		5.6	0.0								
23	7.9	17.1					7.1	14.2	4.0			1.1	2.3	N/A											
24	7.9	16.4					7.1	13.8	4.9			0.9	2.5	N/A											
25	8.3	17.4					7.1	13.0	5.6			0.9	2.6	N/A											
26	7.5	15.8					7.1	12.5	5.0			1.0	2.5	N/A											
27	8.5	17.3		82			7.1	12.4	4.3		1.98	0.9	2.4	N/A	<1.8										
28	8.3	16.2		66			7.1	12.2	4.7		1.60	1.0	2.4	N/A				14:15	8.1	11.7	12.0	14:27	8.0	11.1	11.5
29	7.5	15.4		44			7.1	12.3	4.7		1.72	0.9	2.5	N/A											
30	7.5	15.6					7.0	12.7	4.0		2.69	1.1	2.6	N/A											
Average	7.9	17.2	26	55	413	310	7.1	14.5	4.5	<0.1	1.75	1.7	2.4		<1.8	4.7	1.5		7.9	13.6	10.6		7.8	13.2	10.5
Maximum	8.5	18.8	34	82	510	350	7.2	16.2	6.8	<0.1	2.69	2.9	2.9		<1.8	7.2	3.4		8.1	15.5	12.0		8.0	14.6	11.5
Minimum	7.4	15.4	18	30	350	240	7.0	12.2	3.1	<0.1	1.31	0.9	1.9		<1.8	0.0	0.0		7.8	11.4	9.9		7.7	11.1	9.7

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
December 2023

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL_2 Res	River CL_2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	8.2	16.9	30	70	370	260	7.1	13.4	4.8	<0.1	1.68	0.9	2.5	N/A		5.8	0.0								
2	8.4	17.0					7.0	13.2	3.9			0.9	2.4	N/A											
3	7.9	16.9					7.0	13.6	4.6			1.2	2.8	N/A											
4	8.2	16.7		62			7.1	14.0	6.2		3.62	1.3	2.7	N/A	34.0			10:10	7.6	12.6	10.7	10:20	7.6	12.6	10.4
5	7.9	16.3		50			7.1	14.3	5.7		2.46	0.9	2.5	N/A											
6	8.0	16.4		46			7.0	14.5	4.4		2.42	1.1	2.5	0.00	Started River Discharge										
7	8.0	16.0		50			7.0	14.3	7.2		1.76	1.1	3.0	0.00											
8	8.1	15.6	18	48	270	200	6.9	13.3	7.6	<0.1	1.88	1.0	2.8	0.00		2.0	2.8								
9	7.5	15.9					7.0	13.5	6.4			1.3	2.7	0.00											
10	7.7	15.6					6.9	13.6	7.4			1.0	2.9	0.00											
11	7.8	16.3		62			7.0	14.6	7.2		1.54	0.9	2.9	0.00	<1.8										
12	8.1	15.3		54			7.0	13.2	8.3		2.36	0.9	3.2	0.00				16:00	7.5	12.0	10.9	16:10	7.4	11.9	10.9
13	7.4	14.3		38			6.9	12.9	8.3		2.12	1.0	3.6	0.00											
14	8.2	15.7		52			7.0	12.2	7.8		2.72	0.9	2.5	0.00											
15	8.4	16.7	22	72	360	230	6.9	12.7	8.0	<0.1	2.64	0.8	2.9	0.00		2.0	0.0								
16	8.4	16.0					7.1	12.6	8.1			0.9	2.9	0.00											
17	8.2	15.9					7.0	13.0	8.2			0.9	3.0	0.00											
18	8.1	16.5		48			7.0	13.3	7.3		2.15	1.0	2.5	0.00	<1.8										
19	7.5	15.4		28			7.0	14.1	7.4		1.99	0.9	2.4	0.00				10:20	7.6	13.1	10.6	10:30	7.6	12.1	10.6
20	8.1	15.8		46			7.0	14.3	7.3		1.82	1.0	2.6	0.00											
21	8.1	15.9		48			7.0	13.7	7.6		2.19	1.2	2.5	0.00											
22	8.1	15.6	20	50	300	250	7.0	13.9	7.6	<0.1	1.81	1.4	2.5	0.00		3.4	0.0								
23	7.4	14.2					7.0	12.2	8.5			1.4	2.5	0.00											
24	8.3	14.8					7.0	11.7	8.5			1.3	0.9	0.00											
25	7.4	14.8					7.0	12.5	8.0			1.3	2.2	0.00											
26	7.8	14.4					7.1	12.7	8.2			1.2	2.4	0.00											
27	7.8	15.6		50			7.1	12.7	7.9		1.23	1.3	2.3	0.00	<1.8			16:00	7.6	12.1	10.3	16:10	7.5	12.0	10.3
28	7.6	15.3		34			7.1	13.7	8.4		0.94	1.5	2.2	0.00											
29	8.3	16.5	25	58	420	370	7.2	14.4	8.6	<0.1	2.90	2.2	2.5	0.00		5.0	4.0								
30	7.3	15.0					7.1	14.3	8.2			1.8	2.4	0.00											
31	7.5	14.3					7.2	13.1	8.8			2.1	2.3	0.00											
Average	7.9	15.7	23	51	344	262	7.0	13.4	7.3	<0.1	2.12	1.2	2.6	0.00	<1.8	3.6	1.4		7.6	12.5	10.6		7.5	12.2	10.6
Maximum	8.4	17.0	30	72	420	370	7.2	14.6	8.8	<0.1	3.62	2.2	3.6	0.00	34.0	5.8	4.0		7.6	13.1	10.9		7.6	12.6	10.9
Minimum	7.3	14.2	18	28	270	200	6.9	11.7	3.9	<0.1	0.94	0.8	0.9	0.00	<1.8	2.0	0.0		7.5	12.0	10.3		7.4	11.9	10.3

McKinleyville CSD
Waste Water Management Facility 30 Day Average
BOD & TSS Work Sheet 2023

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
1/6/2023	1.059	1.818	260	0.0	210	1.6	0	0	100	2	24	99	
1/13/2023	1.197	1.579	380	2.7	270	1.4	3	36	99	1	18	99	
1/20/2023	1.046	1.444	240	2.7	180	2.0	3	33	99	2	24	99	
1/27/2023	0.933	1.243	360	2.6	230	2.7	3	27	99	3	28	99	
							2	24	99	2	24	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
2/3/2023	0.885	0.887	300	3.0	230	2.2	3	22	99	2	16	99	
2/10/2023	0.894	1.007	300	3.2	260	3.0	3	27	99	3	25	99	
2/17/2023	0.854	0.880	300	3.6	280	3.0	4	26	99	3	22	99	
2/24/2023	1.031	1.267	300	4.8	250	4.1	5	51	98	4	43	98	
							4	32	99	3	27	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
3/3/2023	1.038	1.269	270	4.2	240	3.9	4	44	98	4	41	98	
3/10/2023	1.291	1.455	270	4.6	220	2.6	5	56	98	3	32	99	
3/17/2023	1.214	1.425	240	4.6	230	5.5	5	55	98	6	65	98	
3/24/2023	1.085	1.275	130	6.0	110	6.1	6	64	95	6	65	94	
3/31/2023	1.025	1.25	190	4	150	4	4	39	98	4	38	98	
							5	51	98	4	48	97	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
4/7/2023	1.023	1.326	310	2.4	210	1.1	2	27	99	1	12	99	
4/14/2023	0.990	1.185	270	3.7	280	2.3	4	37	99	2	23	99	
4/21/2023	0.965	1.161	290	2.2	210	1.3	2	21	99	1	13	99	
4/28/2023	0.898	0.744	310	2.9	220	1.5	3	18	99	2	9	99	
							3	26	99	2	14	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
5/5/2023	0.878	0.815	510	3.0	440	2.5	3	20	99	3	17	99	
5/12/2023	0.890	0.849	330	3.4	290	2.6	3	24	99	3	18	99	
5/19/2023	0.842	0.857	350	5.2	250	2.2	5	37	99	2	16	99	
5/26/2023	0.832	0.828	360	5.4	250	1.8	5	37	99	2	12	99	
							4	30	99	2	16	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
6/2/2023	0.814	0.844	280	0.0	220	0.0	0	0	100	0	0	100	
6/9/2023	0.817	0.876	300	4.8	230	0.0	5	35	98	0	0	100	
6/16/2023	0.824	0.864	780	6.0	300	0.0	6	43	99	0	0	100	
6/23/2023	0.785	0.847	300	6.6	210	0.0	7	47	98	0	0	100	
6/30/2023	0.790	0.861	340	4.6	230	0.0	5	33	99	0	0	100	
							4	32	99	0	0	100	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
7/7/2023	0.772	0.691	310	4.2	240	0.0	4	24	99	0	0	100	
7/14/2023	0.771	0.707	320	5.4	250	2.8	5	32	98	3	17	99	
7/21/2023	0.771	0.720	320	6.7	270	0.0	7	40	98	0	0	100	
7/28/2023	0.773	0.765	380	3.5	320	0.0	4	22	99	0	0	100	
							5	30	98	1	4	100	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
8/4/2023	0.783	0.767	360	3.1	320	0.0	3	20	99	0	0	100	
8/11/2023	0.769	0.792	360	3.4	320	0.0	3	22	99	0	0	100	
8/18/2023	0.751	0.903	290	5.0	270	0.0	5	38	98	0	0	100	
8/25/2023	0.757	0.852	310	5.1	250	2.8	5	36	98	3	20	99	
							4	29	99	1	5	100	**Monthly Avg.**

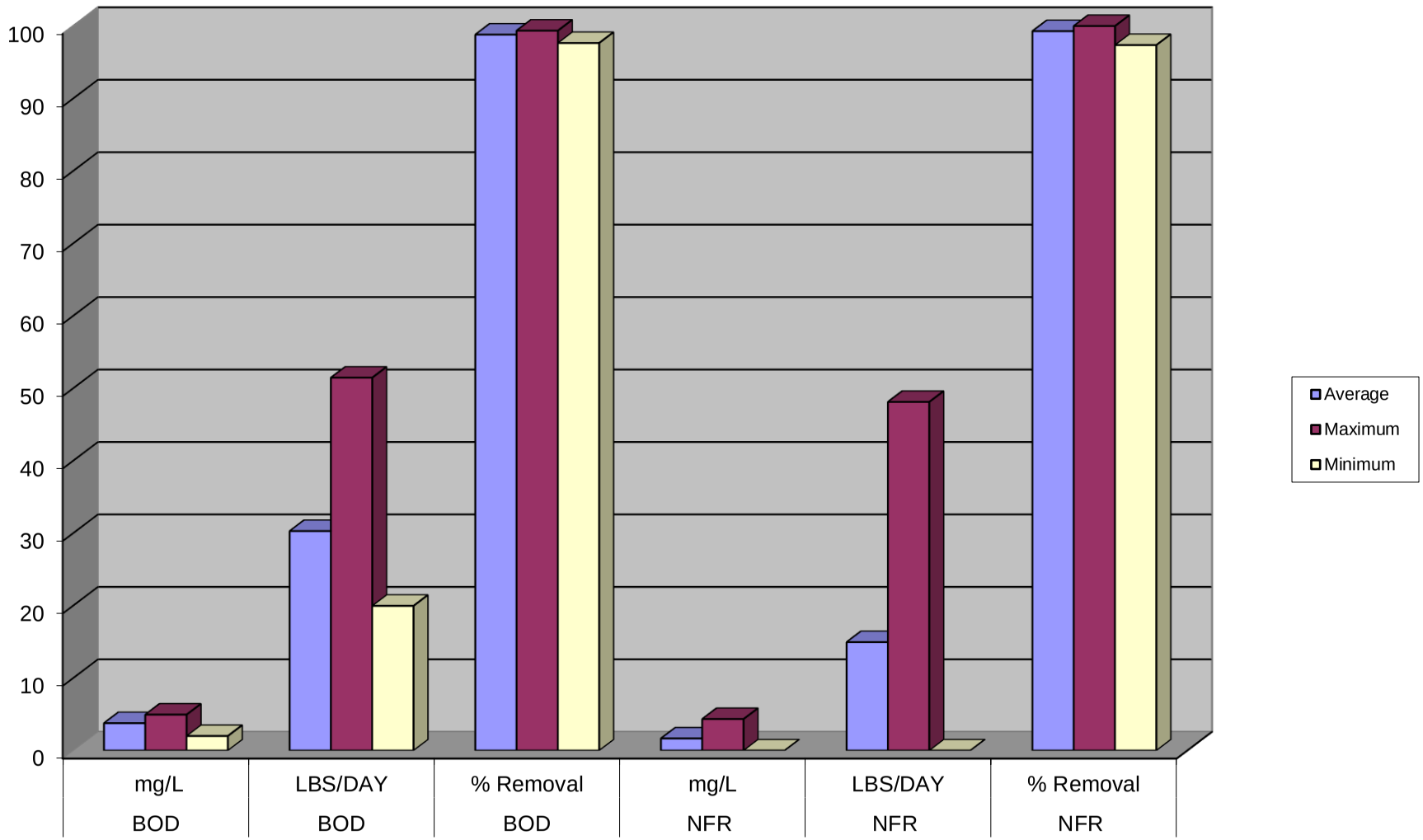
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
9/1/2023	0.749	0.829	340	4.8	290	0.0	5	33	99	0	0	100	
9/8/2023	0.755	0.201	340	0.0	260	0.0	0	0	100	0	0	100	
9/15/2023	0.745	0.799	490	7.2	450	3.3	7	48	99	3	22	99	
9/22/2023	0.730	0.790	460	0.0	320	0.0	0	0	100	0	0	100	
9/29/2023	0.755	0.795	460	0.0	290	2.6	0	0	100	3	17	99	
							3	20	99	1	8	100	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
10/6/2023	0.742	0.806	520	0.0	390	2.5	0	0	100	3	17	99	
10/13/2023	0.750	0.774	310	2.1	220	0.0	2	14	99	0	0	100	
10/20/2023	0.753	0.811	310	3.7	220	0.0	4	25	99	0	0	100	
10/27/2023	0.756	0.728	360	6.8	250	2.6	7	41	98	3	16	99	
							3	20	99	1	8	100	**Monthly Avg.**

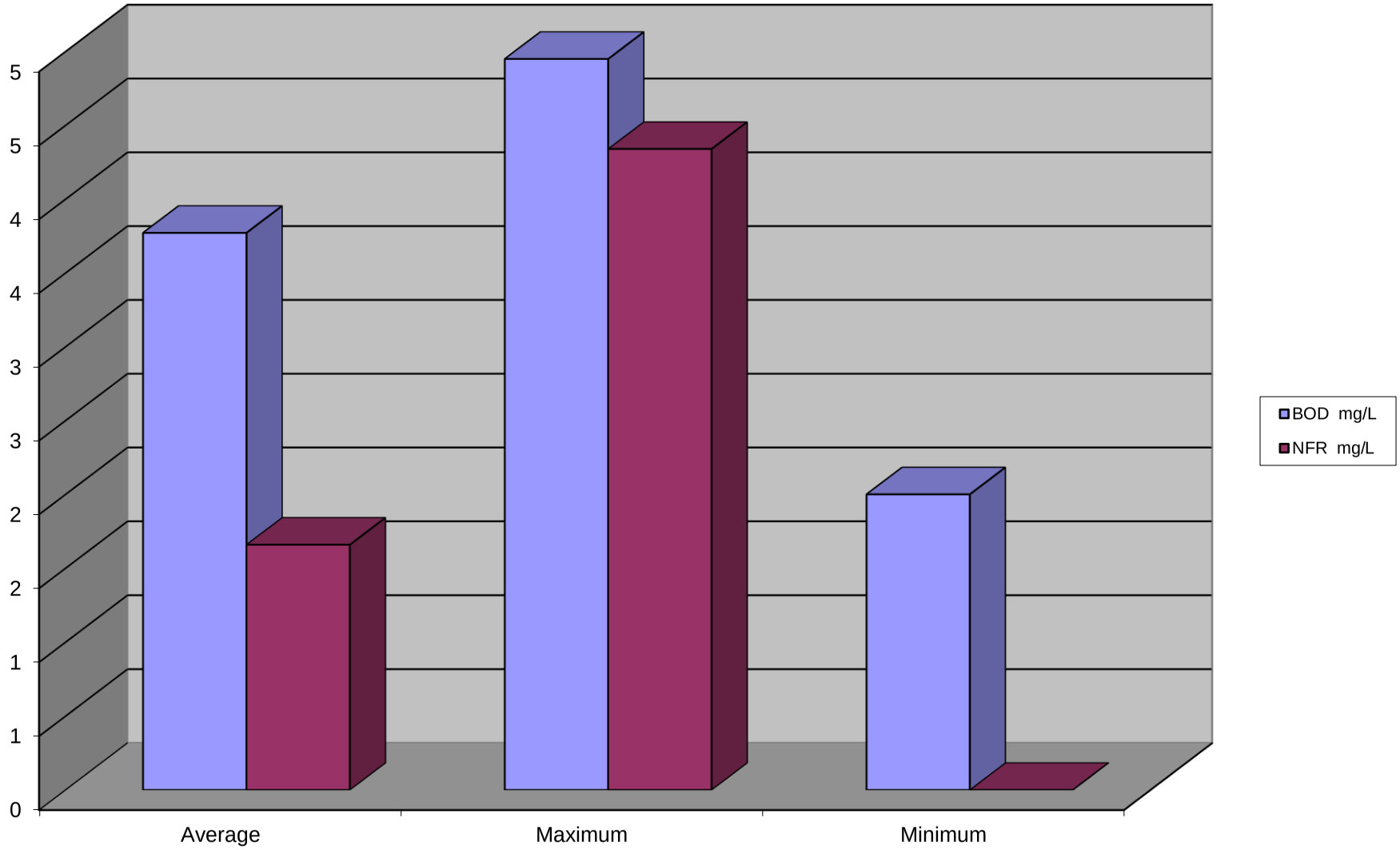
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
11/3/2023	0.764	0.800	350	5.8	350	2.7	6	39	98	3	18	99	
11/9/2023	0.739	0.871	350	7.2	240	3.4	7	52	98	3	25	99	
11/17/2023	0.754	0.983	510	0.0	320	0.0	0	0	100	0	0	100	
11/22/2023	0.767	0.974	440	5.6	330	0.0	6	45	99	0	0	100	
							5	34	99	2	11	99	**Monthly Avg.**

DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
12/1/2023	0.789	1.012	370	5.8	260	0.0	6	49	98	0	0	100	
12/8/2023	0.944	1.508	270	2.0	200	2.8	2	25	99	3	35	99	
12/15/2023	0.830	1.282	360	2.0	230	0.0	2	21	99	0	0	100	
12/22/2023	0.978	1.322	300	3.4	250	0.0	3	37	99	0	0	100	
12/29/2023	0.897	1.210	420	5.0	370	4.0	5	50	99	4	40	99	
							4	37	99	1	15	100	**Monthly Avg.**

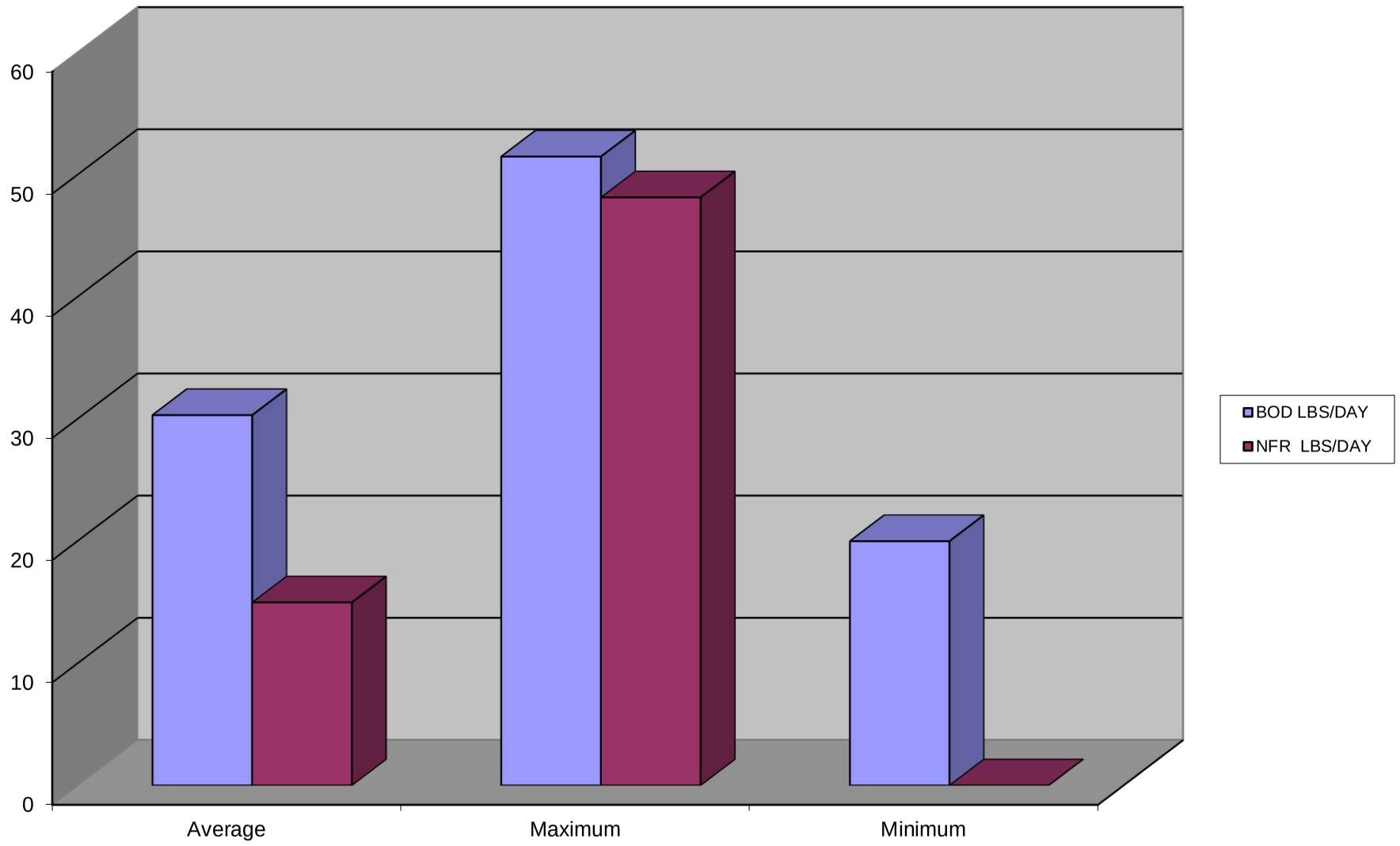
30 Day BOD & NFR
Maximum, Minimum, and Average



BOD & NFR 30 DAY AVERAGE mg/L



BOD & NFR 30 DAY AVERAGE LBS/DAY

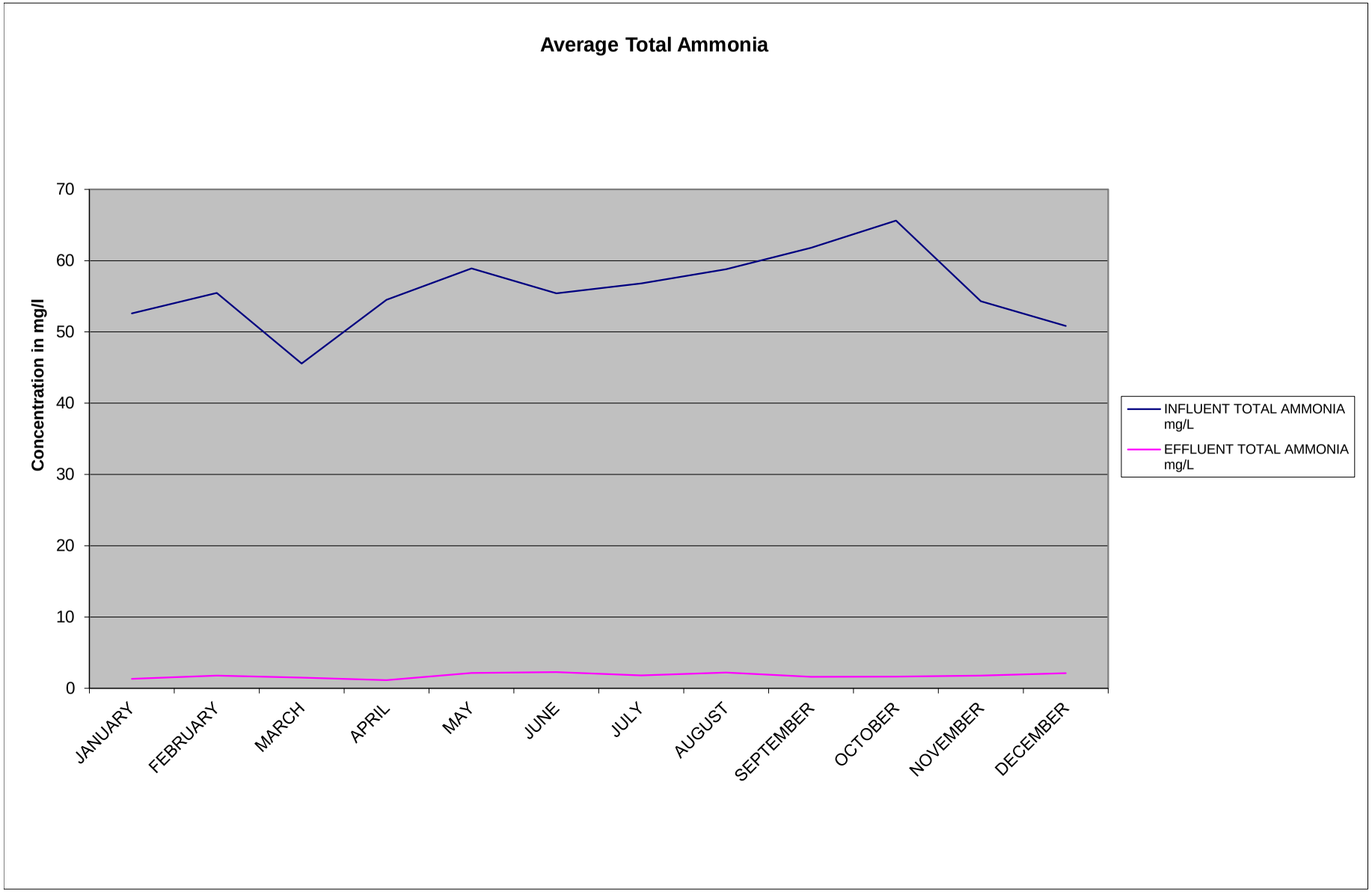


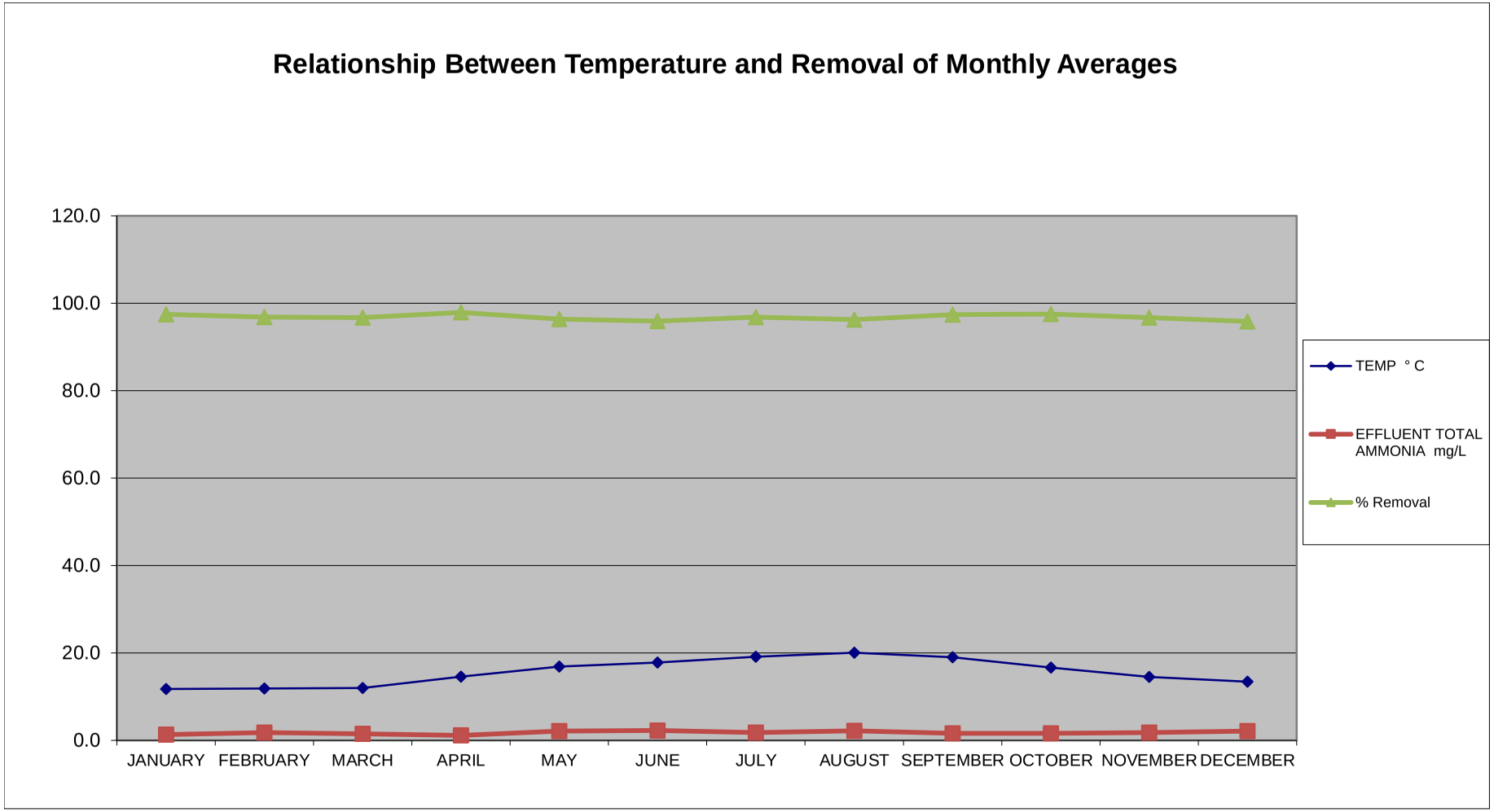
McKinleyville Community Services District
Wastewater Management Facility
2023 Influent, Terminal Pond, and Effluent BOD

MONTH		INFLUENT	EFFLUENT	Terminal Pond	SE
		BOD	BOD	BOD	BOD
January	1/6/2023	260	0.0	ND	ND
	1/13/2023	380	2.7	ND	5.1
	1/20/2023	240	2.7	ND	6.1
	1/27/2023	360	2.6	ND	ND
February	2/3/2023	300	3.0	2.2	3.0
	2/10/2023	300	3.2	2.0	6.6
	2/17/2023	300	3.6	ND	5.3
	2/24/2023	300	4.8	2.2	9.4
March	3/3/2023	270	4.2	ND	5.1
	3/10/2023	270	4.6	2.7	6.2
	3/17/2023	240	4.6	6.4	5.5
	3/24/2023	130	6.0	2.6	5.0
	3/31/2023	190	3.7	3.1	4.8
April	4/7/2023	310	2.4	ND	2.6
	4/14/2023	270	3.7	ND	3.7
	4/21/2023	290	2.2	2.4	5.2
	4/28/2023	310	2.9	2.1	5.7
May	5/5/2023	510	3.0	4.4	5.6
	5/12/2023	330	3.4	ND	2.6
	5/19/2023	350	5.2	ND	6.4
	5/26/2023	360	5.4	2.6	4.4
June	6/2/2023	280	ND	2.9	4.4
	6/9/2023	300	4.8	ND	3.2
	6/16/2023	780	6.0	6.0	ND
	6/23/2023	300	6.6	6.6	ND
	6/30/2023	340	4.6	3.4	3.2
July	7/7/2023	310	4.2	3.4	2.3
	7/14/2023	320	5.4	3.2	3.5
	7/21/2023	320	6.7	3.6	3.2
	7/28/2023	380	3.5	28.0	2.0
August	8/4/2023	360	3.1	2.4	2.1
	8/11/2023	360	3.4	18.0	2.3
	8/18/2023	290	5.0	4.2	2.8
	8/25/2023	310	5.1	2.4	3.2
September	9/1/2023	340	4.8	5.7	4.3
	9/8/2023	340	0.0	6.6	2.3
	9/15/2023	490	7.2	6	4.6
	9/22/2023	460	0.0	7.8	3.2
	9/29/2023	460	0.0	11	5.5
October	10/6/2023	520	0	14	6.2
	10/13/2023	310	2.1	5	3.7
	10/20/2023	310	3.7	4.2	3.8
	10/27/2023	360	6.8	9.6	3.5
November	11/3/2023	350	5.8	11	2.8
	11/9/2023	350	7.2	7.2	3.0
	11/17/2023	510	0	6.3	3.2
	11/22/2023	440	5.6	7.9	2.4
December	12/1/2023	370	5.8	6.3	2.4
	12/8/2023	270	2.0	ND	ND
	12/15/2023	360	2.0	2.6	2.9
	12/22/2023	300	3.4	2.5	2.3
	12/29/2023	420	5	7.2	4.5
Average		344	4	6	4
Maximum		780	7.2	28	9
Minimum		130	0	2	2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITIES INFLUENT & EFFLUENT
AVERAGE AMMONIA, TEMPERATURE, pH,
ANNUAL MONTHLY AVERAGE 2023

DATE	pH	TEMP ° C	INFLUENT TOTAL AMMONIA mg/L		pH	TEMP ° C	EFFLUENT TOTAL AMMONIA mg/L	% Removal
JANUARY	7.9	14.1	53		6.9	11.8	1.32	97.5
FEBRUARY	7.9	13.5	55		7.1	11.9	1.77	96.8
MARCH	7.9	13.2	46		6.9	12.0	1.49	96.7
APRIL	7.9	14.4	55		7.0	14.6	1.14	97.9
MAY	7.9	16.1	59		7.2	16.9	2.14	96.4
JUNE	7.9	17.3	55		7.1	17.8	2.27	95.9
JULY	7.7	18.8	57		7.0	19.1	1.80	96.8
AUGUST	7.7	20.1	59		7.1	20.1	2.20	96.3
SEPTEMBER	7.8	19.7	62		7.1	19.0	1.61	97.4
OCTOBER	8.0	18.5	66		7.1	16.6	1.63	97.5
NOVEMBER	7.9	17.2	54		7.1	14.5	1.78	96.7
DECEMBER	7.9	15.7	51		7.0	13.4	2.12	95.8
AVERAGE	7.9	16.6	56		7.1	15.6	1.77	96.8
MAXIMUM	8.0	20.1	66		7.2	20.1	2.27	97.9
MINIMUM	7.7	13.2	46		6.9	11.8	1.14	95.8


Average Total Ammonia
Concentration in mg/l
70
60
50
40
30
20
10
0
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER
INFLUENT TOTAL AMMONIA mg/L
EFFLUENT TOTAL AMMONIA mg/L


Relationship Between Temperature and Removal of Monthly Averages
120.0
100.0
80.0
60.0
40.0
20.0
0.0
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER
TEMP ° C
EFFLUENT TOTAL AMMONIA mg/L
% Removal

Monitoring Well Levels

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
2/15/2023	GW-001	63.61	22.0	41.6	499.32
2/15/2023	GW-002	61.40	16.6	44.8	537.60
2/15/2023	GW-006	15.70	6.2	9.5	114.00
2/15/2023	GW-007	44.36	24.4	20.0	240.12
2/15/2023	GW-009	37.65	24.8	12.9	154.20
2/15/2023	GW-019	16.08	6.5	9.6	114.96

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
4/11/2023	GW-001	63.61	19.5	44.1	529.32
4/11/2023	GW-002	61.4	12.8	48.6	583.20
4/11/2023	GW-006	15.7	5.1	10.6	127.20
4/11/2023	GW-007	44.36	22.8	21.6	258.72
4/11/2023	GW-009	37.65	23.7	14.0	167.40
4/11/2023	GW-019	16.08	5.8	10.3	123.36

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
7/6/2023	GW-001	63.61	21	42.6	511.32
7/6/2023	GW-002	61.4	14.7	46.7	560.40
7/6/2023	GW-006	15.7	5.6	10.1	121.20
7/6/2023	GW-007	44.36	22.1	22.3	267.12
7/6/2023	GW-009	37.65	18.4	19.3	231.00
7/6/2023	GW-019	16.08	6.7	9.4	112.56

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
10/4/2023	GW-001	63.61	21.4	42.2	506.52
10/4/2023	GW-002	61.4	17.2	44.2	530.40
10/4/2023	GW-006	15.7	6.2	9.5	114.00
10/4/2023	GW-007	44.36	16.8	27.6	330.72
10/4/2023	GW-009	37.65	21.5	16.2	193.80
10/4/2023	GW-019	16.08	7.8	8.3	99.36

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
MONITORING WELL DATA 2023

Location	GW-001		GW-002		GW-006		GW-007		GW-009		GW-019	
Quarter	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS	Nitrate	TDS
Q1	2.7	110	2.8	93	2.3	180	2.9	180	2.6	140	ND	6000
Q2	2.4	120	3.2	90	ND	170	2.7	160	2.7	150	ND	6400
Q3	2.3	130	4.6	110	2.3	180	2	140	2.5	130	ND	5700
Q4	2.1	120	5.8	120	2.7	170	3.5	190	2.9	170	ND	6200
AVERAGE	2.4	120	4.1	103	2.4	175	2.8	168	2.7	148	0.0	6075
MAXIMUM	2.7	130	5.8	120	2.7	180	3.5	190	2.9	170	0.0	6400
MINIMUM	2.1	110	2.8	90	2.3	170	2.0	140	2.5	130	0.0	5700

McKinleyville Community Services District
River Monitoring 2023

Upstream RSW-001

Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/3/2023	15:00	3630	11.8	6.8	11.4	143	88	ND	64	120
February	2/1/2023	15:00	925	11.0	7.0	12.1	35.1	101	ND	59	110
March	3/1/2023	11:20	2830	9.8	6.9	11.9	38.2	99	ND	52	91
April	4/3/2023	14:30	2920	12.1	6.9	11.4	71.8	105	ND	48	100
May	5/1/2023	14:30	1250	13.5	7.0	10.6	24	81	ND	45	70
June	6/5/2023	16:00	232	18.7	6.7	9.1	1.2	138	ND	73	96
July	7/6/2023	8:20	93	18.5	7.0	8.4	0.8	450	ND	140	1200
August	8/1/2023	15:00	51	22.1	6.9	9.4	0.6	335	ND	110	210
September	9/5/2023	9:25	54	18.1	7.0	8.6	0.4	154	ND	100	150
October	10/2/2023	16:00	58	18.7	8.4	10.2	0.3	166	ND	100	120
November	11/1/2023	16:00	70	14.9	7.9	10.8	0.50	192	ND	140	350
December	12/4/2023	10:10	2100	12.6	7.6	10.7	54.3	104	ND	57	96
Average				15.2	7.2	10.4	30.9	168	ND	82	226
Maximum				22.1	8.4	12.1	143.0	450	ND	140	1200
Minimum				9.8	6.7	8.4	0.3	81	ND	45	70

Upstream RSW-002

Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/3/2023	15:10	3630	11.3	6.7	11.2	145.0	105	ND	65	96
February	2/1/2023	15:10	925	11.3	7.2	11.9	36.3	128	ND	62	130
March	3/1/2023	11:30	2830	9.6	6.8	12.0	40.0	95	ND	54	91
April	4/3/2023	14:40	2920	12	6.9	11.1	64.9	110	ND	50	110
May	5/1/2023	14:40	1250	14.0	7	10.1	22.3	98	ND	49	80
June	6/5/2023	16:10	232	19.7	6.9	9	1.7	166	ND	73	120
July	7/6/2023	8:25	93	17.8	7.1	9.5	1.8	1505	ND	310	390
August	8/1/2023	15:10	51	22.5	7.4	9.6	0.7	1881	ND	290	1,500
September	9/5/2023	9:30	54	17.7	7.0	8.5	0.7	859	ND	190	1,200
October	10/2/2023	16:10	58	17.7	8.1	10.4	0.6	1240	ND	910	4600
November	11/1/2023	16:10	70	14.6	7.8	10.4	0.6	327	ND	330	1500
December	12/4/2023	10:20	2100	12.6	7.6	10.4	55.3	98.0	ND	57	96
Average				15.1	7.2	10.3	30.8	551	0.00	203	826
Maximum				22.5	8.1	12.0	145.0	1881	0.00	910	4600
Minimum				9.6	6.7	8.5	0.6	95	0.00	49	80

WWMF EFF-001

Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/3/2023	14:30	3630	10.5	7.0	5	0.8	373	1	96	N/A
February	2/1/2023	11:00	925	11.6	7.0	8.5	1	318	0.72	90	N/A
March	3/1/2023	11:00	2830	11.8	6.8	6.1	1.7	246	2	85	N/A
April	4/3/2023	11:00	2920	12.3	6.9	5.2	1	273	1.2	74	N/A
May	5/1/2023	11:00	1250	16.1	7.2	8.3	1.4	234	1	69	210
June	6/5/2023	15:30	232	17.9	7.3	4.5	1.4	349	2.7	N/A	220
July	7/6/2023	9:20	93	18.0	7.2	6.7	0.8	322	2.1	N/A	250
August	8/1/2023	11:00	51	19.9	7.0	4.6	0.8	391	2.5	N/A	260
September	9/5/2023	9:15	54	20.1	7.2	4.3	2	409	2.1	N/A	290
October	10/2/2023	11:00	58	17.1	7.1	3.7	1.6	418	1	N/A	290
November	11/1/2023	15:00	70	14.6	7.1	6.8	2.9	379	1.3	N/A	310
December	12/4/2023	9:30	2100	14	7.1	6.2	1.3	435	2.9	120	310
Average				15.3	7.1	5.8	1.4	346	1.7	89	268
Maximum				20.1	7.3	8.5	2.9	435	2.9	120	310
Minimum				10.5	6.8	3.7	0.8	234	0.7	69	210

McKinleyville Community Services District
Wastewater Management Facility
Pond Ammonia Levels in mg/L
Annual Averages 2023

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5
January		0.70	0.17	0.49		
February		0.43	0.08	0.26	EMPTY	EMPTY
March		1.28	0.10	0.10	EMPTY	EMPTY
April		0.97	0.07	0.02	EMPTY	EMPTY
May		0.29	0.09	0.11	EMPTY	EMPTY
June		0.04	0.09	0.16	EMPTY	EMPTY
July		0.14	0.06	0.16	EMPTY	EMPTY
August		0.56	0.14	0.10	EMPTY	EMPTY
September		0.31	0.12	0.06	EMPTY	EMPTY
October		1.17	1.30	0.21	EMPTY	EMPTY
November		1.95	4.07	1.17	EMPTY	EMPTY
December		3.46	4.19	1.79	EMPTY	EMPTY
Average		0.94	0.87	0.38		
Minimum		0.04	0.06	0.02		
Maximum		3.46	4.19	1.79		

McKinleyville Community Services District
Wastewater Management Facility
Pond Temperatures in C
Annual Averages 2023

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond Temp.
January		11.7	11.2	11.2	EMPTY	EMPTY	11.4
February		10.8	10.4	10.1	EMPTY	EMPTY	10.4
March		11.9	11.6	11.5	EMPTY	EMPTY	11.6
April		14.9	14.9	14.9	EMPTY	EMPTY	14.9
May		17.2	17.0	16.9	EMPTY	EMPTY	17.0
June		18.6	18.2	18.2	EMPTY	EMPTY	18.3
July		19.2	18.9	18.4	EMPTY	EMPTY	18.8
August		19.7	19.4	19.1	EMPTY	EMPTY	19.4
September		18.5	18.3	17.9	EMPTY	EMPTY	18.2
October		17.2	16.3	16.0	EMPTY	EMPTY	16.5
November		14.7	13.9	13.3	EMPTY	EMPTY	13.9
December		12.9	12.4	11.8	EMPTY	EMPTY	12.4
Average		15.6	15.2	14.9			15.2
Minimum		10.8	10.4	10.1			10.4
Maximum		19.7	19.4	19.1			19.4

McKinleyville Community Services District
Wastewater Management Facility
Pond pH
Annual Averages 2023

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond pH
January		6.8	7.2	7.3	EMPTY	EMPTY	7.1
February		7.1	7.2	7.4	EMPTY	EMPTY	7.2
March		7.2	7.3	7.5	EMPTY	EMPTY	7.3
April		8.0	7.8	9.1	EMPTY	EMPTY	8.3
May		7.7	8.1	9.8	EMPTY	EMPTY	8.5
June		8.2	8.0	8.7	EMPTY	EMPTY	8.3
July		7.6	7.5	7.4	EMPTY	EMPTY	7.5
August		7.1	7.2	7.3	EMPTY	EMPTY	7.2
September		7.4	7.3	7.3	EMPTY	EMPTY	7.3
October		6.2	2.7	3.4	EMPTY	EMPTY	4.1
November		7.5	7.4	7.3	EMPTY	EMPTY	7.4
December		7.3	7.5	7.5	EMPTY	EMPTY	7.4
Average		7.3	7.1	7.5			7.3
Minimum		6.2	2.7	3.4			4.1
Maximum		8.2	8.1	9.8			8.5

McKinleyville Community Services District
Wastewater Management Facility
Pond Dissolved Oxygen in mg/L
Annual Averages 2023

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond D.O.
January		5.9	8.6	9.3	EMPTY	EMPTY	7.9
February		7.0	8.0	9.4	EMPTY	EMPTY	8.1
March		11.1	10.5	11.2	EMPTY	EMPTY	10.9
April		10.4	7.2	12.8	EMPTY	EMPTY	10.1
May		7.8	7.0	9.5	EMPTY	EMPTY	8.1
June		8.8	5.4	5.9	EMPTY	EMPTY	6.7
July		6.5	3.6	2.9	EMPTY	EMPTY	4.3
August		3.4	2.5	2.8	EMPTY	EMPTY	2.9
September		6.6	3.6	3.4	EMPTY	EMPTY	4.5
October		6.2	2.7	3.4	EMPTY	EMPTY	4.1
November		7.4	3.6	2.7	EMPTY	EMPTY	4.6
December		6.9	7.0	7.1	EMPTY	EMPTY	7.0
Average		7.3	5.8	6.7			6.6
Minimum		3.4	2.5	2.7			2.9
Maximum		11.1	10.5	12.8			10.9

McKinleyville Community Services District
Wastewater Management Facility
Pond Depths, Elevation in Feet Above Sea Level
Annual Averages 2023

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond Depth
January		60.6	60.3	60.3	EMPTY	EMPTY	60.4
February		60.2	59.6	59.3	EMPTY	EMPTY	59.7
March		60.8	60.5	60.5	EMPTY	EMPTY	60.6
April		60.5	60.2	60.0	EMPTY	EMPTY	60.2
May		60.3	59.7	59.5	EMPTY	EMPTY	59.8
June		60.0	59.7	59.5	EMPTY	EMPTY	59.7
July		60.2	59.9	59.7	EMPTY	EMPTY	59.9
August		59.9	59.8	59.7	EMPTY	EMPTY	59.8
September		60.2	60.1	60.0	EMPTY	EMPTY	60.1
October		60.9	60.8	60.8	EMPTY	EMPTY	60.8
November		61.5	61.5	61.5	EMPTY	EMPTY	61.5
December		60.9	60.8	60.8	EMPTY	EMPTY	60.8
Average		60.5	60.2	60.1			60.3
Minimum		59.9	59.6	59.3			59.7
Maximum		61.5	61.5	61.5			61.5

MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ELECTRIC, CL_2, $SO_{2,\ WATER}$ and RAIN DATA
ANNUAL 2023

DATE	PG&E kw Hours	CL_2 USAGE lbs.	SO2 USAGE lbs.	RAIN inches
JANUARY	24200	1446	940	6.65
FEBRUARY	-2560	1005	567	6.62
MARCH	-80	1538	984	9.29
APRIL	-25480	1047	732	3.44
MAY	-21080	870	347	2.55
JUNE	-26400	904	0	0.05
JULY	-32000	791	0	0.00
AUGUST	-15520	1190	0	0.03
SEPTEMBER	-3820	1045	0	2.48
OCTOBER	11520	1192	0	3.20
NOVEMBER	27200	1105	0	4.35
DECEMBER	25045	1414	1088	8.47

Annual Total	-38975	13547	4658	47.13
AVERAGE	-3248	1129	388	3.93
MAXIMUM	27200	1538	1088	9.29
MINIMUM	-32000	791	0	0.00

WWMF WATER METER			
DATE	LOW	HIGH	CU.FT.
START	17083	9387	
END	23670	14903	

Month | Year 2023 | McKinleyville WWMF Annual Averages

Month	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume
January	1.074	1.486	0.033	80	307	296	1.9	1.7	2308	2159	2270	2047	5000	788	21
February	0.952	1.025	0.039	80	296	251	3.8	3.3	2458	2385	2364	2139	5825	765	23
March	1.236	1.324	0.0342	94	231	248	3.9	3.9	2350	2192	2291	2088	4508	637	22
April	1.042	1.176	0.031	60	272	271	3.4	2.9	2397	2185	2274	2077	6410	468	20
May	0.888	0.861	0.031	50	378	306	2.9	2.6	2145	2055	2049	1869	7196	387	22
June	0.821	0.807	0.031	50	411	296	2.6	1.4	2022	1864	1966	1782	6548	381	29
July	0.788	0.631	0.031	50	329	295	2.6	1.3	1993	1914	1910	1727	6404	360	18
August	0.785	0.832	0.031	50	329	300	2.2	1.6	1930	1787	1829	1667	6161	359	28
September	0.777	0.626	0.028	51	411	324	2.4	2.9	1999	1926	1917	1734	6684	338	24
October	0.783	0.731	0.031	50	384	324	3.1	3.1	2039	1822	1892	1721	7263	320	16
November	0.812	0.885	0.0307	50	404	264	3.2	2.9	1996	1783	1855	1693	6992	336	26
December	0.941	1.250	0.030	50	334	268	2.7	2.3	1902	1955	1906	1758	6830	439	23
Minimum	0.777	0.626	0.028	50	231	248	1.9	1.3	1902	1783	1829	1667	4508	320	16
Maximum	1.236	1.486	0.039	94	411	324	3.9	3.9	2458	2385	2364	2139	7263	788	29
Average	0.908	0.969	0.032	60	341	287	2.9	2.5	2128	2002	2044	1858	6318	465	23

Month	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M
January	90	2584	2760	59617	1377	17	348	43	0.048
February	90	1967	2350	64617	1896	30	324	34	0.041
March	91	2561	2407	60606	1295	42	279	62	0.044
April	91	2362	2357	61140	1657	30	205	37	0.042
May	91	2260	2813	56042	1860	22	189	30	0.056
June	91	2015	2812	51843	1693	18	194	30	0.059
July	91	1926	2165	52133	1656	17	189	32	0.046
August	91	1948	2153	49645	1600	14	196	31	0.048
September	91	2075	2662	52379	1481	15	177	50	0.057
October	91	2078	2506	51518	1878	20	169	27	0.053
November	91	1770	2737	50433	1776	21	181	28	0.059
December	92	2053	2635	51479	1719	21	230	30	0.055
Minimum	90	1770	2153	49645	1295	14	169	27	0.041
Maximum	92	2584	2813	64617	1896	42	348	62	0.059
Average	91	2133	2530	55121	1657	22	223	36	0.051

Month	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity
January	7.9	6.8	6.9	6.8	6.8	6.8	6.8	266	115	108	118
February	7.9	6.9	7.1	6.9	6.9	6.8	6.9	274	117	116	114
March	7.9	6.8	6.9	6.8	6.8	6.8	6.8	236	103	101	100
April	7.9	6.9	7.0	6.9	6.9	6.9	6.9	280	112	113	105
May	7.9	7.0	7.2	7.0	7.0	6.9	7.0	307	119	121	116
June	7.9	7.0	7.1	6.9	6.9	6.9	6.9	315	123	126	122
July	7.7	7.1	7.0	7.0	7.0	6.9	7.0	317	125	126	122
August	7.7	7.1	7.1	7.0	7.0	6.9	7.0	339	145	140	134
September	7.8	7.1	7.1	7.0	7.0	7.0	7.0	353	141	136	129
October	8.0	7.0	7.1	6.9	6.9	6.9	6.9	350	123	125	120
November	7.9	7.0	7.1	6.9	6.8	6.9	6.9	298	121	122	111
December	7.9	6.9	7.0	6.8	6.8	6.8	6.8	278	102	102	95
Minimum	7.7	6.8	6.9	6.8	6.8	6.8	6.8	236	102	101	95
Maximum	8.0	7.1	7.2	7.0	7.0	7.0	7.0	353	145	140	134
Average	7.9	7.0	7.1	6.9	6.9	6.9	6.9	301	120	120	115

Month	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU
January	53	0.07	0.11	0.98	1.32	7.7	4.4	5.9	4.0	1.0	1.1
February	55	0.03	0.07	1.26	1.77	3.2	3.9	3.1	3.0	0.9	1.3
March	46	0.34	0.61	1.07	1.49	3.5	4.5	3.4	3.1	0.9	1.3
April	55	0.10	0.17	0.83	1.14	3.4	6.2	4.5	3.6	1.2	1.4
May	59	0.04	0.09	1.17	2.14	3.8	5.6	4.4	3.0	1.2	1.6
June	55	0.07	0.18	1.28	2.27	4.0	7.5	5.7	3.0	1.0	1.0
July	57	0.02	0.05	1.13	1.88	5.0	6.6	5.5	2.9	0.8	0.9
August	59	0.01	0.04	1.66	2.20	5.1	7.1	5.5	3.0	0.7	1.9
September	62	0.08	0.17	1.06	1.61	6.0	7.3	6.0	3.2	0.6	2.4
October	66	0.14	0.24	0.69	1.63	8.7	12.1	9.9	3.8	0.7	2.4
November	55	0.15	0.31	0.47	1.75	7.2	12.2	9.5	5.5	1.0	1.7
December	51	0.09	0.01	0.78	2.12	8.1	13.3	10.3	6.2	1.0	1.2
Minimum	46	0.01	0.01	0.47	1.14	3.2	3.9	3.1	2.9	0.6	0.9
Maximum	66	0.34	0.61	1.66	2.27	8.7	13.3	10.3	6.2	1.2	2.4
Average	56	0.09	0.17	1.03	1.78	5.5	7.6	6.1	3.7	0.9	1.5

Month	January	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day BOD under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec. Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	C	1.082	1.845	0.033	80	310													2797							8.0		6.9																				0.8/0.8		
2	R	1.080	1.484	0.033	80	310													2792							7.7		6.9																				0.8/0.8		
3	R	1.011	1.844	0.033	80	310	248	2.2	1.2	2174	1995	2102	1880	5174	780		89	2091	2614	55631	1424	16	371	39	0.052	8.0	6.8	7.0	6.7	6.7	6.7	6.7	260	120	120	120	48	0.00	0.00	0.00	0.86	8.8	5.3	6.1	3.3	0.7	0.8			0.8/0.8	11'/3'	12'/3'
4	O	0.979	1.829	0.033	80	310	286	2.4	4.0	2053	2130	2144	1938	4600	840		90	2335	2531	55818	1266	20	392	43	0.049	8.0	6.7	7.0	6.6	6.7	6.7	6.7	280	120	120	120	46	0.00	0.00	0.04	0.74	8.4	4.6	6.3	3.0	0.7	1.9			0.8/0.8	10'/2.5'	11'/3'
5	R	1.123	1.828	0.033	80	310	427	1.8	1.4	2233	2088	2147	1898	4594	790		88	1999	2903	57659	1264	17	368	45	0.057	8.0	6.7	6.9	6.6	6.7	6.8	6.6	300	100	100	120	56	0.01	0.02	0.02	0.66	9.1	5.1	6.3	3.2	0.7	1.2			0.8/0.8	12'/3'	13'/3'
6	O	1.060	1.819	0.033	80	260	301	2.0	1.4	2212	2095	2162	1942	4872	800	29	90	2661	2299	57473	1341	18	370	42	0.044	8.4	6.8	7.0	6.6	6.6	6.8	6.8	340	120	100	120	64	0.00	0.00	0.01	0.63	9.6	5.4	6.3	3.5	0.7	0.9	0.0	0.0	0.8/0.8	11'/3'	13/4'
7	R	1.094	1.806	0.033	80	260													2372							7.6		6.9																				0.8/0.8		
8	R	1.288	1.802	0.033	80	260													2793							7.4		6.9																				0.8/0.8		
9	S	1.134	1.512	0.033	80	260	311	2.2	1.6	2337	2178	2135	1917	5400	800		90	2941	2459	60248	1486	21	375	40	0.048	8.1	6.7	7.0	6.6	6.6	6.8	6.7	280	100	100	100	48	0.03	0.06	0.06	0.42	10.2	5.8	6.9	3.3	0.8	1.3			0.8/0.8	11'/3'	13'/3'
10	R	1.094	1.426	0.033	80	260	257	2.2	1.6	2374	2191	2237	2039	5018	780		90	2345	2372	60915	1381	20	349	43	0.044	8.2	6.8	6.8	6.7	6.7	6.8	6.8	260	120	100	120	50	0.05	0.06	1.51	2.07	9.4	5.4	6.9	4.6	1.0	1.1			0.8/0.8	11'/3'	12'/3.5'
11	R	1.089	1.525	0.033	80	260	254	2.0	1.4	2326	2183	2271	2029	4722	810		89	2307	2361	60168	1300	18	357	46	0.044	8.1	6.7	7.0	6.6	6.7	6.8	6.7	260	120	120	120	44	0.00	0.00	1.40	1.76	9.6	5.4	6.8	5.2	1.0	1.0			0.8/0.8	11'/3'	11'/3'
12	O	1.062	1.535	0.033	80	260	331	2.2	1.4	2283	2171	2250	2030	4676	790		90	2932	2303	59434	1287	19	351	45	0.043	8.2	6.8	6.8	6.7	6.7	6.8	6.7	300	120	100	120	52	0.08	0.15	1.44	1.74	8.3	5.0	6.5	5.3	1.1	1.0			0.8/0.8	11'/3'	11'/3'
13	R	1.199	1.581	0.033	80	380	428	1.6	1.6	2327	2149	2245	1998	4722	770	20	89	4280	3800	59728	1311	16	343	45	0.071	7.7	6.8	7.0	6.7	6.7	6.8	6.7	200	120	100	100	36	0.25	0.19	1.28	1.72	7.3	3.9	5.6	4.5	0.8	1.1	5.1	2.7	0.8/0.8	12'/3'	12'/3'
14	R	1.274	1.580	0.033	80	380													4038							7.9		7.1																				0.8/0.8		
15	R	1.302	1.617	0.033	80	380													4126							7.4		6.9																				0.8/0.8		
16	S	1.246	1.605	0.033	80	380													3949							7.8		7.0																				0.8/0.8		
17	S	1.104	1.538	0.033	80	380	377	2.0	2.0	2268	2085	2291	2073	4882	790		90	3471	3499	58086	1344	18	345	43	0.063	7.5	6.9	6.9	6.8	6.8	6.8	6.8	300	120	120	120	68	0.09	0.20	1.56	0.42	7.1	4.5	7.0	5.0	0.9	1.0			0.8/0.8	12'/3'	12'/3'
18	R	1.115	1.486	0.033	80	380	214	1.4	1.6	2388	2164	2370	2149	4758	780		91	1990	3534	60742	1309	13	329	46	0.062	8.1	6.9	7.0	6.8	6.9	6.9	6.9	200	120	120	120	56	0.05	0.01	1.77	2.07	5.8	3.3	5.3	4.5	0.9	1.1			0.8/0.8	12'/3'	12'/3'
19	C	1.118	1.552	0.033	80	380	209	2.8	2.0	2349	2136	2284	3070	4698	760		91	1949	3543	59848	1293	26	333	45	0.064	8.1	6.9	7.0	6.9	6.8	6.8	6.9	260	100	100	120	50	0.05	0.13	1.65	1.83	7.4	3.5	5.1	3.9	1.0	1.0			0.8/0.8	10'/3'	10'/3'
20	C	1.049	1.446	0.033	80	240	284	2.4	2.2	2351	2116	2309	2084	4620	800	15	90	2485	2100	59608	1272	21	346	46	0.018	7.9	6.9	6.9	6.9	6.8	6.8	7.0	240	100	100	120	54	0.04	0.18	1.52	1.94	6.9	3.6	5.3	3.4	1.0	1.1	6.1	2.7	0.8/0.8	12'/3'	12'/3'
21	O	1.071	1.366	0.033	80	240													2144							7.4		6.7																				0.8/0.8		
22	C	1.095	1.334	0.033	80	240													2192							7.4		7.0																				0.8/0.8		
23	C	1.009	1.301	0.033	80	240	308	4.0	1.2	2334	2117	2255	2039	5396	800		90	2592	2020	59194	1485	34	355	39	0.037	8.1	6.9	6.9	6.8	6.8	6.8	6.8	220	100	100	100	54	0.06	0.11	1.53	1.72	6.6	3.2	4.5	3.6	1.2	1.0			0.8/0.8	8'/4'	9'/3'
24	C	0.970	1.293	0.033	80	240	401	2.4	1.6	2293	2167	2340	2113	5232	790		90	3244	1942	59514	1440	19	338	41	0.034	8.2	6.9	7.1	6.8	6.8	6.8	6.9	240	100	100	120	76	0.02	0.08	1.16	1.63	6.5	3.1	4.6	3.3	1.2	1.2			0.8/0.8	8'/3'	8'/4'
25	C	0.978	1.285	0.033	80	240	200	1.2	1.0	2368	2181	2335	2126	5262	780		91	1631	1958	60702	1448	10	334	42	0.035	7.7	6.9	7.1	6.8	6.9	6.8	6.8	200	120	100	120	36	0.03	0.11	1.09	1.66	6.3	3.4	5.3	3.5	0.7	1.2			0.8/0.8	9'/3'	10'/4'
26	C	0.941	1.251	0.033	80	240	342	1.4	0.8	2363	2170	2355	2134	5054	760		91	2684	1884	60488	1391	11	323	43	0.033	8.1	6.9	6.9	6.8	6.8	6.8	6.8	220	120	100	120	58	0.15	0.06	1.09	1.38	7.3	3.6	4.8	4.4	1.0	1.0			0.8/0.8	8'/4'	8'/3'
27	C	0.935	1.245	0.033	80	360	246	1.0	1.0	2324	2207	2449	2230	5580	770	18	91	1918	2807	60462	1536	8	314	39	0.047	8.1	6.9	6.9	6.8	6.8	6.8	6.9	240	120	100	120	48	0.06	0.08	0.97	1.33	7.9	4.9	5.6	3.9	1.0	1.2	0.0	2.6	0.8/0.8	8'/3'	8'/3'
28	O	0.998	1.200	0.033	80	360													2829							7.8		7.0																				0.8/0.8		
29	C	1.013	1.107	0.033	80	360													3041							8.0		7.0																				0.8/0.8		
30	C	0.923	1.056	0.033	80	360	280	0.4	1.4	2322	2228	2314	2084	5054	780		90	2155	2771	60715	1391	3	337	44	0.050	8.0	7.0	6.8	7.0	7.0	7.0	7.0	380	140	140	140	64	0.30	0.65	0.78	0.82	4.7	3.3	6.2	4.6	1.8	1.0			0.8/0.8	9'/5'	9'/5'
31	C	0.911	0.978	0.033	80	360	220	0.4	2.6	2490	2434	2411	2201	5686	790		91	1672	2735	65706	1565	3	328	42	0.047	7.7	7.0	7.0	6.9	6.9	6.9	6.9	340	120	120	120	44	0.03	0.11	0.67	1.00	6.5	5.5	6.0	4.9	1.4	0.9			0.8/0.8	8'/4'	8'/4'
Minimum		0.911	0.978	0.033	80	240	200	0.4	0.8	2053	1995	2102	1880	4594	760	15	88	1631	1884	55631	1264	3	314	39	0.033	7.4	6.7	6.7	6.6	6.6	6.7	6.6	200	100	100	100	36	0.00	0.00	0.00	0.42	4.7	3.1	4.5	3.0	0.7	0.8	0.0	0.0	0.8/0.8		
Maximum		1.302	1.845	0.033	80	428	428	4.0	4.0	2490	2434	2449	2230	5686	840	29	91	4280	4126	65706	1565	34	392	46	0.071	8.4	7.0	7.1	7.0	7.0	7.0	7.0	380	140	140	140	76	0.30	0.65	1.77	2.07	10.2	5.8	7.0	5.3	1.8	1.9	6.1	2.7	0.8/0.8		
Average		1.074	1.486	0.033	80	307	296	1.9	1.7	2308	2159	2270	2047	5000	788	21	90	2584	2760	59617	1377	17	348	43	0.048	7.9	6.8	6.9	6.8	6.8	6.8	6.8	266	115	108	118	53	0.07	0.11	0.98	1.32	7.7	4.4	5.9	4.0	1.0	1.1	2.8	2.0	0.8/0.8		

Month	February	2023		McKinleyville WWMF

Month	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added
1	C	0.914	0.953	0.033	80	240	240	2.2	2.4	2552	2451	2492	2271	5704	770		91	1829
2	C	0.888	0.923	0.035	80	240	290	2.8	3.6	2397	2422	2347	2104	5508	790		90	2148
3	R	0.886	0.888	0.036	80	300	262	3.8	2.4	2503	2474	2365	2154	5520	770	22	91	1936
4	O	0.932	0.784	0.036	80	300												
5	R	1.052	1.029	0.036	80	300												
6	C	0.963	1.068	0.037	80	300	358	3.6	4.4	2490	2420	2403	2185	6080	780		91	2875
7	O	0.917	1.058	0.040	80	300	368	4.0	3.2	2335	2344	2360	2145	5748	790		91	2814
8	C	0.909	1.042	0.040	80	300	202	2.8	3.8	2555	2463	2386	2087	6286	770		87	1531
9	C	0.899	1.024	0.040	80	300	275	4.6	5.6	2534	2532	2456	2241	6430	790		91	2062
10	R	0.894	1.008	0.040	80	300	346	4.4	2.0	2537	2420	2388	2184	5412	770	29	91	2580
11	C	0.930	1.034	0.040	80	300												
12	F	0.979	0.970	0.040	80	300												
13	O	0.901	0.961	0.040	80	300	119	3.8	4.6	2572	2431	2394	2174	6508	760		91	894
14	R	0.905	0.988	0.040	80	300	157	3.4	3.0	2554	2385	2413	2179	6026	780		90	1185
15	C	0.898	1.068	0.040	80	300	255	3.2	2.4	2335	2363	2369	2147	5352	770		91	1910
16	O	0.889	0.936	0.040	80	300	321	4.6	2.0	2493	2375	2366	2138	5844	780		90	2380
17	C	0.856	0.881	0.040	80	300	313	4.0	2.6	2421	2414	2342	2121	5464	740	26	91	2235
18	C	0.873	0.799	0.040	80	300												
19	C	0.889	0.818	0.040	80	300												
20	C	0.893	0.810	0.040	80	300												
21	R	0.867	0.901	0.040	80	300	201	2.0	3.0	2506	2382	2369	2158	6204	740		91	1453
22	S	0.978	1.107	0.040	80	300	227	4.8	2.4	2381	2350	2331	2111	5888	740		91	1852
23	S	1.025	1.214	0.040	80	300	183	3.2	2.8	2360	2357	2241	2006	5978	740		90	1564
24	C	1.031	1.269	0.040	80	300	221	5.0	3.6	2399	2435	2265	2053	5978	730	13	91	1900
25	C	1.036	1.262	0.040	80	300												
26	R	1.104	1.257	0.040	80	300												
27	R	1.146	1.314	0.040	80	300	230	5.2	5.0	2373	2150	2313	2098	5388	760		91	2198
28	R	1.200	1.329	0.040	80	300	203	4.4	3.8	2399	2141	2316	2091	5348	770		90	2032
Minimum		0.856	0.784	0.033	80	240	119	2.0	2.0	2335	2141	2241	2006	5348	730	13	87	894
Maximum		1.200	1.329	0.040	80	300	368	5.2	5.6	2572	2532	2492	2271	6508	790	29	91	2875
Average		0.952	1.025	0.039	80	296	251	3.8	3.3	2458	2385	2364	2139	5825	765	23	90	1967

Month	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L
1	1829	66760	1570	17	309	42	0.030	7.9	7.0	7.0	7.0	7.0	7.0	7.0	280	120
2	1777	64305	1608	21	337	39	0.032	7.9	6.9	7.0	6.9	6.9	6.9	6.9	300	120
3	2217	66413	1657	28	326	39	0.039	8.2	6.9	6.9	6.9	6.9	6.9	6.9	280	120
4	2332							8.1		7.2						
5	2632							8.2		7.2						
6	2409	65519	1876	29	325	34	0.041	7.7	7.0	6.9	7.0	7.0	6.9	7.0	300	120
7	2294	62437	1918	31	335	32	0.040	7.9	6.8	6.8	6.8	6.8	6.8	6.8	320	120
8	2274	66960	2097	21	323	32	0.041	7.7	6.8	6.8	6.8	6.8	6.8	6.8	280	100
9	2249	67601	2145	34	322	31	0.038	7.9	7.0	7.1	6.9	6.9	6.9	6.9	280	120
10	2237	66146	1805	33	322	36	0.038	8.0	6.8	6.9	6.8	6.8	6.8	6.8	300	120
11	2327							7.9		7.0						
12	2449							7.9		7.1						
13	2254	66760	2171	29	317	30	0.039	7.9	7.0	7.1	6.9	6.9	6.8	6.8	300	120
14	2264	65906	2010	26	323	32	0.039	7.7	7.0	7.0	6.9	6.9	6.9	6.9	240	120
15	2247	62690	1785	24	325	35	0.039	7.9	7.0	7.0	6.8	6.9	6.8	6.8	300	120
16	2224	64959	1950	34	330	33	0.039	8.2	7.0	7.2	6.9	6.8	6.8	6.8	300	120
17	2142	64518	1823	29	316	35	0.038	7.9	7.0	7.2	7.0	7.0	7.0	7.0	280	120
18	2184							8.0		7.2						
19	2224							7.8		7.2						
20	2234							8.3		7.2						
21	2169	65225	2070	14	312	31	0.038	8.1	7.0	7.1	6.9	6.9	6.8	6.9	280	120
22	2447	63130	1964	39	317	32	0.043	7.9	7.0	7.2	6.9	6.9	6.8	6.9	280	120
23	2565	62944	1994	27	330	31	0.048	7.8	6.9	7.2	6.9	6.9	6.8	6.9	260	120
24	2580	64505	1994	43	322	32	0.047	8.0	7.0	7.1	6.9	6.9	6.8	6.9	240	120
25	2592							7.9		7.1						
26	2762							7.8		7.1						
27	2867	60355	1797	50	329	33	0.051	7.9	6.8	7.0	6.8	6.8	6.8	6.7	200	100
28	3002	60582	1784	44	332	33	0.054	7.4	6.7	6.8	6.8	6.8	6.7	6.7	180	100
Minimum	1777	60355	1570	14	309	30	0.030	7.4	6.7	6.8	6.8	6.8	6.7	6.7	180	100
Maximum	3002	67601	2171	50	337	42	0.054	8.3	7.0	7.2	7.0	7.0	7.0	7.0	320	120
Average	2350	64617	1896	30	324	34	0.041	7.9	6.9	7.1	6.9	6.9	6.8	6.9	274	117

Month	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	120	120	56	0.00	0.29	0.71	1.01	6.2	5.7	5.9	4.3	0.5	1.0			0.8/0.8	7'/4'	7'/4'
2	120	120	64	0.00	0.01	1.16	1.89	5.5	5.0	4.9	4.1	1.1	1.5			0.8/0.8	8'/3'	8'/3.5'
3	120	120	42	0.02	0.04	0.93	1.47	4.7	5.0	4.1	4.4	1.3	1.4	4.9	3.0	0.8/0.8	7.5'/4.5'	7.5'/5'
4													1.3			0.8/0.8		
5													1.5			0.8/0.8		
6	120	120	58	0.01	0.00	0.92	0.63	2.8	3.9	2.6	2.5	1.2	1.7			0.8/0.8	8.5'/3.5'	8'/4'
7	120	100	58	0.22	0.27	1.38	2.24	2.0	3.9	2.3	2.6	0.9	1.1			0.8/0.8	7.5'/3.5'	7'/3.5'
8	120	100	46	0.00	0.00	1.39	2.31	1.9	2.5	2.6	2.3	0.5	1.3			0.8/0.8	7'/3'	7'/3'
9	120	120	52	0.00	0.08	1.43	2.26	1.2	1.4	2.2	2.0	0.9	1.3			0.8/0.8	7'/3'	7'/3'
10	120	120	52	0.00	0.00	1.60	1.85	2.1	2.7	2.2	2.2	1.0	1.2	6.6	3.2	0.8/0.8	7'/3.5'	7'/3'
11													1.3			0.8/0.8		
12													1.0			0.8/0.8		
13	120	120	64	0.00	0.00	1.38	2.05	2.1	2.1	1.3	1.7	0.9	1.1			0.8/0.8	7'/3'	8'/4'
14	120	120	52	0.02	0.03	1.17	1.90	1.2	2.0	1.2	2.1	0.7	0.8			0.8/0.8	7'/3'	7'/3'
15	120	120	66	0.08	0.00	1.33	1.59	3.6	3.4	2.2	2.8	0.8	0.9			0.8/0.8	7'/3'	6.5'/3'
16	120	120	70	0.02	0.02	1.36	2.09	2.0	4.5	2.5	2.7	0.8	0.9			0.8/0.8	7'/3'	7'/3'
17	120	120	62	0.00	0.01	1.17	1.69	3.6	4.4	3.6	3.4	0.6	0.7	5.3	3.6	0.8/0.8	7'/3'	7'/3'
18													1.2			0.8/0.8		
19													1.1			0.8/0.8		
20													0.9			0.8/0.8		
21	120	120	70	0.01	0.02	1.49	1.77	1.7	3.1	2.1	2.3	1.1	0.9			0.8/0.8	6.5'/3'	7'/3'
22	120	120	60	0.02	0.00	1.26	1.36	2.9	4.3	2.6	2.5	0.7	1.1			0.8/0.8	7'/3'	7.5'/3'
23	100	100	58	0.02	0.02	1.39	1.62	4.2	5.1	3.7	3.4	1.0	1.1			0.8/0.8	7'/3'	8'/3'
24	100	100	48	0.09	0.06	1.56	1.90	6.7	6.2	5.6	3.9	0.8	1.3	9.4	4.8	0.8/0.8	7'/3'	7'/3'
25													1.4			0.8/0.8		
26													1.7			0.8/0.8		
27	100	100	42	0.06	0.17	1.19	1.91	3.0	4.2	3.4	3.3	1.2	2.8			0.8/0.8	10'/5'	9'/5'
28	100	100	34	0.05	0.35	1.17	2.13	3.3	4.7	3.3	3.6	1.4	1.6			0.8/0.8	9'/4'	9'/4'
Minimum	100	100	34	0.00	0.00	0.71	0.63	1.2	1.4	1.2	1.7	0.5	0.7	4.9	3.0			
Maximum	120	120	70	0.22	0.35	1.60	2.31	6.7	6.2	5.9	4.4	1.4	2.8	9.4	4.8			
Average	116	114	55	0.03	0.07	1.26	1.77	3.2	3.9	3.1	3.0	0.9	1.3	6.6	3.7			

Month	March	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec.Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	S	1.151	1.328	0.040	80	300	258	3.8	3.6	2421	2195	2337	2136	5482	720		91	2477	2880	61596	1829	36	308	33	0.051	7.9	6.7	6.8	6.7	6.7	6.7	6.7	240	100	100	100	40	0.04	0.45	1.38	2.11	3.6	5.0	3.4	3.2	1.2	1.7			0.8/0.8	9'/4'	9'/4'
2	S	1.074	1.303	0.040	80	300	209	4.4	2.2	2368	2149	2351	2127	5346	720		90	1872	2687	60275	1783	39	306	33	0.047	7.5	6.7	7.0	6.7	6.7	6.7	6.7	180	100	100	100	30	0.02	0.43	1.52	2.00	3.0	4.7	3.3	3.1	1.1	1.5			0.8/0.8	9'/4'	9'/4'
3	S	1.040	1.271	0.040	80	270	180	4.2	1.6	2392	2225	2331	2133	5322	720	19	92	1561	2342	61609	1775	36	309	34	0.041	7.7	6.8	6.9	6.7	6.7	6.7	6.7	260	100	100	100	50	0.09	0.83	1.31	1.78	2.7	4.0	2.9	3.1	0.7	1.4	5.1	4.2	0.8/0.8	8'/4'	8'/4'
4	R	1.132	1.272	0.040	80	270													2549							7.6		6.7																		1.2			0.8/0.8		
5	R	1.261	1.343	0.040	80	270													2840							7.7		6.9																		1.0			0.8/0.8		
6	R	1.163	1.346	0.040	80	270	286	5.2	4.8	2397	2188	2298	2080	5620	750		91	2774	2619	61182	1875	50	326	32	0.047	7.8	6.7	6.8	6.7	6.7	6.7	6.7	240	100	100	100	48	0.38	0.89	2.01	2.15	2.7	3.2	2.3	2.8	1.2	1.4			0.8/0.8	8'/4'	8'/4'
7	O	1.176	1.325	0.039	80	270	175	4.2	4.0	2287	2200	2262	2054	5576	760		91	1716	2648	59875	1814	41	336	32	0.048	7.7	6.8	6.8	6.8	6.8	6.8	6.8	260	120	120	100	40	0.54	0.74	1.97	2.09	3.3	4.2	2.9	2.6	1.4	1.3			0.8/0.8	7'/4.5'	7'/4'
8	R	1.249	1.427	0.036	80	270	325	2.6	1.8	2121	2126	2169	1979	5024	750		91	1385	2812	56672	1508	27	346	37	0.053	7.9	6.9	7.1	6.9	6.8	6.8	6.9	200	120	100	120	40	0.65	0.70	1.41	1.98	3.6	3.2	2.5	2.1	0.6	0.8			0.8/0.8	9'/4'	9'/4'
9	O	1.220	1.409	0.036	80	270	235	4.6	2.4	2307	2319	2292	2072	5474	740		90	2391	2747	61729	1644	47	323	37	0.050	7.8	6.9	7.0	6.8	6.8	6.8	6.8	160	100	100	100	32	1.50	1.13	2.15	1.55	3.5	3.5	2.3	2.3	0.6	0.8			0.8/0.8	9'/4'	9'/4'
10	O	1.292	1.457	0.034	80	270	274	5.8	3.4	2298	2297	2225	2027	5214	720	25	91	2952	2909	61336	1478	62	324	40	0.054	8.0	7.0	7.0	7.0	7.0	7.0	7.0	300	120	100	100	42	1.14	1.00	2.47	2.68	4.0	4.3	3.4	3.0	0.9	1.0	6.2	4.6	0.8/0.8	9'/4'	9'/4.5'
11	S	1.232	1.428	0.031	80	270													2774							7.9		7.0																		1.2			0.9/0.9		
12	R	1.303	1.358	0.030	80	270													2934							7.8		6.9																		1.3			0.9/0.9		
13	R	1.685	0.963	0.020	120	270	192	4.8	4.0	2353	2064	2268	2068	5726	670		91	2698	3794	58940	955	67	295	58	0.069	7.8	6.8	6.8	6.7	6.7	6.7	6.7	220	120	120	120	36	0.20	2.25	1.24	1.42	2.8	3.2	2.7	2.6	2.1	1.3			0.9/0.9	15'/14'	15'/14'
14	R	1.781	0.615	0.000	120	270	278	8.8	4.2	2180	2241	2133	1946	4294	670		92	4129	4010	58094	0	131	317	offline	0.077	7.4	6.7	6.6	6.7	6.7	6.7	6.7	240	100	100	100	36	0.77	0.44	0.64	0.73	4.7	4.8	3.4	2.6	1.6	1.2			0.9/0.9	13'/12'	13'/12'
15	C	1.492	1.093	0.000	120	270	265	2.8	3.0	2162	2005	2083	1900	3600	690		91	3297	3360	55604	0	35	331	offline	0.066	7.9	6.7	7.2	6.6	6.6	6.7	6.7	220	80	80	80	80	0.42	1.72	0.68	0.46	6.0	5.8	4.8	3.2	0.8	1.4			0.9/0.9	10'/10'	10'/10'
16	C	1.342	1.340	0.130	100	270	202	5.0	5.4	2258	2286	2166	1976	3644	680		91	2261	3022	60635	3951	56	314	15	0.057	7.6	6.8	6.9	6.8	6.8	6.8	6.8	220	100	100	100	36	0.07	0.06	1.16	1.72	5.6	5.8	5.2	2.3	1.0	1.4			0.9/0.9	9'/8'	9'/8'
17	O	1.265	1.492	0.031	100	240	277	3.0	5.2	2268	2177	2251	2048	4004	630	27	91	2922	2532	59314	1035	32	280	56	0.046	8.1	6.8	6.9	6.8	6.7	6.8	6.8	240	100	100	100	46	0.32	0.36	0.82	1.86	3.6	4.3	3.7	3.8	0.8	1.7	5.5	4.6	0.9/0.9	9'/1.5'	9'/1.5'
18	O	1.239	1.520	0.031	100	240													2480							7.6		7.1																		1.8			0.9/0.9		
19	R	1.378	1.538	0.031	100	240													2758							7.7		7.0																		1.8			0.9/0.9		
20	S	1.280	1.493	0.031	100	240	231	13.0	13.8	2407	2246	2279	2075	4174	580		91	2466	2562	62090	1079	139	254	51	0.046	8.0	6.9	7.1	6.8	6.8	6.8	6.9	220	100	100	100	42	0.55	0.50	0.82	1.48	1.4	2.4	2.3	2.6	1.1	1.7			0.9/0.9	8'/1.5'	8'/1'
21	O	1.205	1.413	0.031	100	240	201	2.6	5.8	2406	2233	2291	2081	3926	560		91	2020	2412	61901	1015	28	244	53	0.043	7.9	6.8	6.9	6.8	6.8	6.8	6.8	220	100	100	100	40	0.02	0.32	0.78	1.46	1.7	2.7	2.1	2.7	0.8	1.8			0.9/0.9	7'/1.5'	7'/1'
22	O	1.160	1.369	0.031	100	240	306	1.8	4.0	2466	2300	2357	2147	4116	560		91	2960	2322	63598	1064	17	238	59	0.041	8.0	6.8	6.9	6.8	6.7	6.8	6.8	240	100	100	100	46	0.06	0.57	0.78	1.50	2.0	3.1	2.8	2.9	0.6	1.6			0.9/0.9	6.5'/1.5'	7'/1'
23	O	1.159	1.342	0.031	100	240	212	2.2	4.4	2410	2223	2324	2109	3990	540		91	2049	2320	61823	1032	21	232	59	0.041	8.2	6.8	6.9	6.7	6.7	6.8	6.8	260	100	100	100	52	0.05	0.07	0.00	1.68	2.0	3.2	2.2	2.7	0.7	1.7			0.9/0.9	7'/1.5'	7'/1.5'
24	R	1.130	1.333	0.031	100	130	244	1.6	3.2	2500	2201	2299	2102	4102	510	17	91	2300	1225	62730	1061	15	222	58	0.022	7.9	6.9	7.0	6.9	6.9	6.9	6.9	240	100	100	100	56	0.20	0.58	0.74	1.42	2.9	3.2	2.6	2.9	0.6	1.3	5.0	6.0	1.0/1.0	6'/1'	7'/1.5'
25	R	1.132	1.321	0.031	100	130													1227							8.4		6.9																		1.3			1.0/1.0		
26	C	1.184	1.318	0.031	100	130													1284							7.9		6.8																		1.4			1.0/1.0		
27	O	1.108	1.302	0.030	100	130	277	1.8	2.2	2356	2112	2400	2194	3776	560		91	2560	1201	59621	945	17	233	62	0.021	8.0	6.9	6.9	6.9	6.8	6.8	6.9	260	100	100	100	52	0.44	0.51	0.55	1.03	1.9	4.9	3.8	3.3	0.8	1.4			1.0/1.0	6'/2.5	5'/2'
28	R	1.179	1.314	0.031	100	130	372	1.8	1.8	2409	2116	2319	2111	3894	520		91	3018	1278	60382	1007	18	224	59	0.023	7.9	6.9	6.9	6.9	6.9	6.8	6.9	240	100	100	100	42	0.02	0.15	0.41	0.82	3.6	6.5	3.8	3.8	0.8	1.0			1.0/1.0	6'/2'	6'/2'
29	S	1.135	1.321	0.031	100	130	258	1.8	1.4	2387	2123	2425	2236	3742	520		92	2442	1231	60181	967	17	214	61	0.021	8.2	6.9	6.9	6.8	6.8	6.8	6.9	260	100	100	100	52	0.15	0.10	0.58	0.00	4.1	7.2	4.7	4.1	0.8	1.0			1.0/1.0	5'/2'	5'/2'
30	O	1.090	1.318	0.031	100	130	217	1.4	2.0	2456	2155	2489	2286	3766	540		92	1973	1182	61529	974	13	217	62	0.019	8.2	6.9	6.9	6.8	6.8	6.8	6.8	260	100	100	80	50	0.05	0.14	0.52	1.08	5.0	7.2	5.3	4.5	0.4	0.9			1.0/1.0	5'/2'	5'/2'
31	O	1.066	1.307	0.031	100	130	229	2.4	2.6	2436	2236	2352	2151	3882	540	23	91	2036	1689	62343	1004	21	230	61	0.029	8.0	6.8	6.9	6.7	6.7	6.8	6.8	240	100	100	100	60	0.07	0.10	0.65	1.17	6.7	6.7	6.6	4.7	0.7	1.4	4.8	3.7	1.0/1.0	5'/2'	4'/2'
Minimum		1.040	0.615	0.000	80	130	175	1.4	1.4	2121	2005	2083	1900	3600	510	17	90	1561	1182	55604	0	13	214	15	0.019	7.4	6.7	6.6	6.6	6.6	6.7	6.7	160	80	80	80	30	0.02	0.06	0.00	0.00	1.4	2.4	2.1	2.1	0.4	0.8	4.8	3.7			
Maximum		1.781	1.538	0.130	120	300	372	13.0	13.8	2500	2319	2489	2286	5726	760	27	92	4129	4010	63598	3951	139	346	62	0.077	8.4	7.0	7.2	7.0	7.0	7.0	7.0	300	120	120	120	80	1.50	2.25	2.47	2.68	6.7	7.2	6.6	4.7	2.1	1.8	6.2	6.0			
Average		1.236	1.324	0.034	94	231	248	3.9	3.9	2350	2192	2291	2088	4508	637	22	91	2561	2407	60606	1295	42	279	47	0.044	7.9	6.8	6.9	6.8	6.8	6.8	6.8	236	103	101	100	46	0.34	0.61	1.07	1.49	3.5	4.5	3.4	3.1	0.9	1.3	5.3	4.6			

Month April 2023 McKinleyville WWMF

Day	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume
1	R	1.078	1.301	0.031	100	190										
2	R	1.116	1.307	0.031	100	190										
3	O	1.099	1.317	0.031	80	190	228	2.6	2.6	2470	2194	2373	2166	4218	540	
4	C	1.059	1.159	0.031	80	190	347	3.6	3.8	2443	2107	2336	2136	4586	520	
5	C	1.041	0.562	0.031	80	190	380	3.4	1.0	2581	2280	2358	2143	4816	510	
6	R	1.039	1.223	0.031	70	190	260	4.8	4.2	2409	2041	2334	2136	5228	510	
7	R	1.066	1.389	0.031	70	310	255	2.2	4.0	2541	2123	2440	2226	5420	520	20
8	S	1.057	1.412	0.031	70	310										
9	S	1.060	1.392	0.031	70	310										
10	C	1.085	1.350	0.031	60	310	251	2.0	7.2	2655	2360	2432	2232	5712	510	
11	O	1.149	1.332	0.031	60	310	417	4.2	3.6	2428	2351	2314	2126	6868	490	
12	C	1.098	1.289	0.031	60	310	222	5.4	3.6	2344	2244	2306	2089	6444	490	
13	C	1.050	1.263	0.031	50	310	208	4.2	2.4	2474	2218	2361	2148	6606	490	
14	C	1.030	1.239	0.031	50	270	201	2.0	2.0	2365	2031	2210	2025	7100	430	22
15	O	1.026	1.222	0.031	50	270										
16	C	1.077	1.206	0.031	50	270										
17	O	1.065	1.206	0.031	50	270	297	2.4	4.0	2338	2120	2186	2016	7148	460	
18	C	1.073	1.241	0.031	50	270	335	3.6	2.0	2296	2261	2235	2043	7158	460	
19	C	1.055	1.243	0.031	50	270	355	1.8	2.2	2344	2429	2316	2126	7150	460	
20	O	1.032	1.225	0.031	50	270	270	4.8	2.6	2405	2118	2281	2092	7112	460	
21	C	1.006	1.215	0.031	50	290	214	3.8	2.2	2400	2022	2226	2014	6780	460	20
22	C	1.026	1.208	0.031	50	290										
23	O	1.080	1.206	0.031	50	290										
24	O	1.004	1.214	0.031	50	290	237	4.2	3.8	2350	2238	2171	1984	7418	410	
25	O	0.978	1.203	0.031	50	290	232	2.8	2.0	2201	2242	2081	1896	6996	400	
26	O	0.963	1.024	0.031	50	290	146	3.8	2.0	2271	2105	2096	1910	7040	410	
27	O	0.947	0.766	0.031	50	290	338	3.8	2.6	2284	2059	2188	1996	7208	400	
28	O	0.937	0.779	0.031	50	310	234	3.2	0.8	2341	2153	2241	2033	7192	420	17
29	O	0.945	0.855	0.031	50	310										
30	O	1.005	0.931	0.031	50	310										
Minimum		0.937	0.562	0.031	50	190	146	1.8	0.8	2201	2022	2081	1896	4218	400	17
Maximum		1.149	1.412	0.031	100	310	417	5.4	7.2	2655	2429	2440	2232	7418	540	22
Average		1.042	1.176	0.031	60	272	271	3.4	2.9	2397	2185	2274	2077	6410	468	20

Day	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH
1			1708							7.9		6.8				
2			1768							7.6		6.8				
3	91	2090	1741	62236	1091	24	228	56	0.030	8.1	6.9	6.9	6.8	6.8	6.8	6.8
4	91	3065	1678	60715	1186	32	223	50	0.029	8.3	6.8	6.9	6.8	6.8	6.8	6.8
5	91	3299	1650	64865	1245	30	216	51	0.029	8.3	6.9	6.8	6.9	6.9	6.9	6.9
6	92	2253	1646	59381	1352	42	219	43	0.029	8.2	6.9	7.0	6.8	6.8	6.8	6.8
7	91	2267	2756	62236	1401	20	213	44	0.046	7.9	6.8	6.9	6.8	6.8	6.8	6.8
8			2733							8.1		6.9				
9			2741							7.6		7.1				
10	92	2271	2805	66920	1477	18	210	45	0.047	7.5	7.0	6.9	7.0	7.0	7.0	7.0
11	92	3996	2971	63771	1776	40	212	35	0.052	8.0	7.0	7.0	6.9	6.9	6.9	6.9
12	91	2033	2839	61222	1666	49	212	36	0.051	8.0	6.9	6.9	6.9	6.9	6.9	6.9
13	91	1821	2715	62610	1708	37	208	36	0.047	7.7	7.1	7.1	7.0	7.0	6.9	7.0
14	92	1727	2319	58660	1836	17	195	32	0.043	8.1	7.0	7.1	6.9	6.9	6.9	6.9
15			2310							7.9		6.9				
16			2425							7.6		7.0				
17	92	2638	2398	59488	1848	21	210	32	0.045	8.0	7.0	6.9	7.0	7.0	7.0	7.0
18	91	2998	2416	60809	1851	32	206	32	0.044	7.8	6.9	6.9	6.9	6.9	6.9	6.9
19	92	3124	2376	63691	1849	16	199	34	0.042	7.8	7.0	7.0	6.9	6.9	6.9	6.9
20	92	2324	2324	60355	1839	41	202	32	0.042	8.2	7.0	7.0	6.9	6.9	6.8	6.9
21	90	1795	2433	59007	1753	32	207	33	0.045	7.9	7.0	7.0	6.9	6.9	6.9	6.9
22			2481							7.6		6.9				
23			2612							7.8		7.0				
24	91	1984	2428	61222	1918	35	189	31	0.046	8.0	6.8	7.1	6.8	6.8	6.8	6.8
25	91	1892	2365	59287	1809	23	192	32	0.047	8.1	6.9	7.1	6.8	6.8	6.8	6.8
26	91	1173	2329	58393	1820	31	196	32	0.046	8.1	7.0	7.2	6.8	6.8	6.8	6.8
27	91	2670	2290	57953	1864	30	183	31	0.043	8.0	7.0	7.2	6.9	6.8	6.8	6.8
28	91	1829	2423	59968	1859	25	187	32	0.045	8.2	7.0	7.2	6.9	6.8	6.8	6.9
29			2443							7.9		7.3				
30			2598							7.9		7.1				
Minimum	90	1173	1646	57953	1091	16	183	31	0.029	7.5	6.8	6.8	6.8	6.8	6.8	6.8
Maximum	92	3996	2971	66920	1918	49	228	56	0.052	8.3	7.1	7.3	7.0	7.0	7.0	7.0
Average	91	2362	2357	61140	1657	30	205	37	0.042	7.9	6.9	7.0	6.9	6.9	6.9	6.9

Day	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1															0.9			1.0/1.0		
2															1.2			1.0/1.0		
3	240	100	100	100	48	0.07	0.32	0.33	1.03	3.8	7.6	5.6	4.7	0.8	1.0			1.0/1.0	5'/1.5'	5'/1.5'
4	300	100	120	100	52	0.41	0.73	0.83	1.41	3.5	7.0	5.2	4.0	0.9	1.3			1.0/1.0	5'/2'	5'/2'
5	320	100	100	80	74	0.18	0.22	1.09	0.17	3.6	7.9	5.9	4.4	0.8	0.7			1.0/1.0	4'/2'	4'/2'
6	240	100	100	100	56	0.46	0.47	1.18	1.90	2.9	6.4	5.2	3.3	1.5	1.4			1.0/1.0	5'/2'	5'/2.5'
7	240	100	100	100	48	0.04	0.12	0.04	0.80	4.1	8.8	3.8	4.6	0.9	1.2	2.6	2.4	1.0/1.0	5'/2'	5'/2'
8															1.3			1.0/1.0		
9															1.8			1.0/1.0		
10	220	120	100	100	34	0.01	0.01	1.73	1.84	1.8	5.5	4.4	3.2	0.7	2.4			1.0/1.0	3'/1'	2.5'/1'
11	300	120	100	100	62	0.00	0.00	1.39	1.79	4.1	4.4	3.0	2.9	1.1	1.6			1.0/1.0	3'/1.5'	2.5'/1.5'
12	280	120	120	100	56	0.00	0.03	1.15	1.66	3.7	4.8	3.3	3.0	1.3	1.4			1.0/1.0	3'/1.5'	2.5'/1.5'
13	260	120	120	120	42	0.00	0.00	0.67	0.83	2.7	6.2	4.0	3.0	0.8	1.7			1.0/1.0	3.5'/1.5'	3'/1'
14	260	100	120	100	48	0.08	0.12	0.51	0.57	4.0	7.6	4.7	3.6	1.4	1.0	3.7	3.7	1.0/1.0	3'/2'	3.5'/2'
15															0.9			1.0/1.0		
16															1.0			1.0/1.0		
17	280	120	120	100	50	0.02	0.12	0.69	1.01	3.6	7.1	4.7	3.8	1.1	2.0			1.0/1.0	4'/2.5'	3'/2'
18	320	120	120	100	64	0.27	0.45	0.70	0.75	5.6	7.0	5.3	4.1	1.6	1.5			1.0/1.0	4'/2.5'	4'/2.5'
19	300	100	100	100	60	0.00	0.04	0.72	0.88	5.9	5.2	5.5	4.6	1.5	1.2			1.0/1.0	4'/3'	4'/3'
20	300	120	120	100	54	0.00	0.07	0.66	0.97	4.5	8.6	6.0	4.5	1.1	1.4			1.0/1.0	4'/3'	4.5'/3'
21	260	100	120	100	42	0.10	0.00	0.78	0.83	1.2	8.0	4.2	3.4	1.5	1.6	5.2	2.2	1.0/1.0	4'/3'	4.5'/3.5'
22															1.7			1.0/1.0		
23															1.7			1.0/1.0		
24	300	120	120	120	62	0.03	0.02	0.86	1.32	1.5	3.3	3.7	2.9	1.9	1.8			1.0/1.0	4'/3'	4'/3'
25	280	120	120	120	62	0.19	0.14	0.89	0.98	4.2	2.8	3.5	2.9	1.5	1.5			1.0/1.0	4'/3'	4'/3'
26	320	120	120	120	64	0.03	0.16	0.78	1.32	2.8	4.4	3.8	3.1	1.5	1.6			1.0/1.0	4.5'/3.5'	4'/3'
27	300	120	120	120	64	0.08	0.28	0.77	1.66	2.6	5.8	3.7	3.3	1.6	1.7			1.0/1.0	4'/3'	4'/2.5'
28	280	120	120	120	48	0.02	0.02	0.84	1.13	2.5	5.6	3.8	3.5	1.4	1.8	5.7	2.9	1.0/1.0	4'/2'	4'/2'
29															1.6			1.0/1.0		
30															1.3			1.0/1.0		
Minimum	220	100	100	80	34	0.00	0.00	0.04	0.17	1.2	2.8	3.0	2.9	0.7	0.7	2.6	2.2			
Maximum	320	120	120	120	74	0.46	0.73	1.73	1.90	5.9	8.8	6.0	4.7	1.9	2.4	5.7	3.7			
Average	280	112	113	105	55	0.10	0.17	0.83	1.14	3.4	6.2	4.5	3.6	1.2	1.4	4.3	2.8			

Month	May	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day Inf BOD Added	Lbs/day BOD Added Aeration	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec. Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.957	1.008	0.031	50	310	122	2.2	2.4	2248	2191	2094	1916	7290	380		91	974	2474	59234	1885	18	181	31	0.048	7.6	7.0	7.2	6.9	6.9	6.8	6.9	240	120	120	120	44	0.06	0.08	0.69	1.14	2.3	3.7	3.6	2.7	1.2	1.4			1.0/1.0	4'/2'	4'/2.5'
2	O	0.933	1.090	0.035	50	310	314	1.8	2.2	2294	2203	2074	1879	7332	400		91	2443	2412	60008	1896	14	193	31	0.048	8.0	7.0	7.3	6.9	6.8	6.8	6.9	340	120	120	120	58	0.03	0.07	1.20	2.11	4.2	6.1	4.4	2.6	1.4	2.1			1.0/1.0	4'/3'	4'/3'
3	O	0.915	1.121	0.031	50	310	214	2.8	3.8	2183	2121	2113	1926	7444	400		91	1633	2366	57433	1925	21	189	30	0.046	8.0	7.0	7.3	6.9	6.9	6.8	6.9	300	120	120	120	52	0.00	0.00	1.07	1.84	6.5	7.2	5.6	3.7	1.7	1.8			1.0/1.0	4'/2.5'	4'/3'
4	O	0.911	0.794	0.031	50	310	267	0.6	5.3	2331	2173	2256	2064	7980	400		91	2029	2355	60101	2063	5	177	29	0.043	8.1	7.0	7.2	7.0	7.0	7.0	7.0	360	100	120	100	58	0.00	0.00	1.44	2.56	4.8	7.8	6.8	4.8	0.5	2.5			1.0/1.0	3.5'/2'	4'/2'
5	O	0.878	0.815	0.035	50	510	506	2.8	3.0	2251	2156	2134	1945	7414	390	21	91	3705	3734	58807	1917	21	183	30	0.072	8.1	7.0	7.2	6.9	6.9	6.8	6.9	280	120	100	100	54	0.01	0.01	1.88	2.42	3.8	6.6	5.0	4.9	1.6	2.1	5.6	3.0	1.0/1.0	4'/3'	4'/3'
6	O	0.932	0.916	0.031	50	510													3964							7.9		7.2																					2.7			1.0/1.0		
7	O	0.983	1.011	0.031	50	510													4181							8.1		7.2																					2.2			1.0/1.0		
8	R	0.963	1.113	0.031	50	510	270	3.0	3.0	2194	2078	2090	1924	7476	380		92	2168	4096	57006	1933	24	182	29	0.080	8.2	7.0	7.0	7.0	7.0	7.0	7.0	320	120	120	120	64	0.00	0.02	0.41	1.66	3.5	6.3	4.4	3.4	0.7	1.8			1.0/1.0	3.5'/2'	4'/2'
9	C	0.929	0.993	0.031	50	510	446	2.6	2.4	2136	2156	2013	1843	6750	380		92	3456	3951	57272	1745	20	189	32	0.080	8.3	7.0	7.0	6.9	6.9	6.9	6.9	340	120	120	120	70	0.08	0.09	0.02	0.11	3.5	3.9	4.6	3.6	0.4	0.5			1.0/1.0	3'/2'	3.5'/2'
10	C	0.920	0.851	0.031	50	510	398	4.4	7.0	2174	2032	2118	1940	7478	390		92	3054	3913	56125	1933	34	184	29	0.076	8.3	7.1	7.2	7.0	7.0	6.9	7.0	360	120	120	120	70	0.15	0.28	1.45	2.65	5.5	6.0	4.4	3.5	1.9	2.0			1.0/1.0	3'/2'	3'/2'
11	C	0.896	0.893	0.031	50	510	469	4.6	4.2	2083	2086	2038	1858	6776	390		91	3505	3811	55631	1752	34	191	31	0.077	8.3	7.0	7.3	7.0	7.0	7.0	7.0	360	120	120	120	78	0.02	0.01	1.80	2.55	3.7	4.8	4.6	3.6	1.9	2.3			1.0/1.0	4'/2'	4'/2.5'
12	O	0.890	0.850	0.031	50	330	309	2.8	3.2	2060	2032	1980	1814	7804	390	26	91	2294	2449	54604	2018	21	196	27	0.051	7.8	6.9	7.0	6.9	6.9	6.9	6.9	260	120	120	120	42	0.02	0.05	2.22	2.06	4.0	6.0	4.6	3.8	0.9	2.4	2.8	3.4	1.0/1.0	3'/2.5'	3.5'/3'
13	O	0.903	0.642	0.031	50	330													2485							7.5		7.2																					0.4			1.0/1.0		ws
14	C	0.934	0.678	0.031	50	330													2571							7.5		7.2																					1.9			1.0/1.0		ws
15	O	0.895	0.846	0.031	50	330	491	5.2	1.8	2079	2070	2033	1875	6866	380		92	3665	2463	55364	1775	39	187	31	0.049	8.1	7.1	7.3	7.0	7.0	7.0	7.0	360	120	120	120	80	0.14	0.19	1.84	2.60	4.4	5.2	4.6	2.9	1.6	1.9			1.0/1.0	3'/2'	3.5'/3'
16	O	0.873	0.849	0.031	50	330	295	4.0	1.6	2072	2105	2123	1916	7012	390		90	2148	2403	55738	1813	29	184	30	0.047	7.7	7.1	7.3	7.0	7.0	7.0	7.0	280	120	120	120	50	0.06	0.03	0.00	2.63	3.0	3.5	3.5	2.1	1.7	1.9			1.0/1.0	4'/3.5'	3.5'/3'
17	O	0.879	0.831	0.031	50	330	215	2.2	1.6	2114	2110	2050	1873	7642	380		91	1576	2419	56485	1976	16	185	28	0.048	7.9	7.1	7.2	7.0	7.0	7.0	7.0	280	120	120	120	58	0.00	0.16	0.00	1.87	2.7	3.6	3.7	1.9	1.5	1.6			1.0/1.0	3'/2'	3.5'/2.5'
18	O	0.863	0.828	0.031	50	330	260	3.6	1.0	2150	1928	2042	1860	7456	400		91	1871	2375	54417	1928	26	196	28	0.048	7.7	7.0	7.1	7.0	7.0	6.9	7.0	320	120	120	120	64	0.00	0.08	1.26	2.82	3.2	5.6	4.0	2.3	1.3	1.2			1.0/1.0	3'/2'	3'/2'
19	O	0.842	0.857	0.031	50	350	267	3.0	2.4	2017	1978	2063	1880	6896	390	24	91	1875	2458	53309	1783	21	189	30	0.049	7.6	7.1	7.3	7.0	7.0	7.0	7.0	300	120	120	120	50	0.08	0.13	1.52	1.84	5.3	6.3	4.2	3.0	0.9	1.2	6.4	5.2	1.0/1.0	3'/1.5'	3'/2'
20	O	0.873	0.742	0.031	50	350													2548							7.9		7.0																					1.6			1.0/1.0		
21	O	0.916	0.740	0.031	50	350													2674							8.0		7.2																					1.5			1.0/1.0		
22	C	0.871	0.847	0.031	50	350	241	2.6	2.6	2072	1910	1946	1794	7096	360		92	1751	2542	53136	1835	19	185	29	0.053	8.1	7.0	7.2	7.0	7.0	6.9	7.0	300	120	120	120	60	0.05	0.26	1.11	2.26	3.9	5.6	4.0	2.4	1.0	1.1			1.0/1.0	3'/2'	3'/2'
23	C	0.858	0.834	0.031	50	350	195	3.4	1.4	2147	1953	2012	1799	7352	380		89	2827	2505	54710	1901	24	189	28	0.052	8.2	7.1	7.2	7.0	7.0	6.9	7.0	340	120	120	100	78	0.00	0.00	1.32	2.25	2.5	5.7	3.7	2.1	1.0	1.0			1.0/1.0	3.5'/3'	4'/3.5'
24	O	0.846	0.845	0.031	50	350	227	3.0	1.2	2146	1988	2048	1872	6902	410		91	1602	2469	55164	1784	21	200	31	0.049	7.8	7.1	7.2	7.0	7.0	6.9	7.0	280	120	120	100	54	0.02	0.02	1.11	2.12	3.4	5.7	4.2	2.7	1.0	0.9			1.0/1.0	3'/2'	3'/2'
25	O	0.827	0.832	0.031	50	350	222	2.2	1.0	2142	2047	2029	1848	6896	390		91	1531	2414	55898	1783	15	192	31	0.049	7.9	7.1	7.0	7.0	7.0	7.0	7.0	280	120	120	120	54	0.00	0.02	1.11	2.42	3.5	5.3	4.4	2.5	1.1	1.0			1.0/1.0	2.5'/2'	3'/2'
26	O	0.832	0.829	0.031	50	360	271	2.2	1.8	2000	2097	1948	1777	7260	390	18	91	1880	2498	54670	1877	15	200	29	0.053	8.1	7.0	7.2	7.0	7.0	6.9	6.9	240	120	120	120	48	0.05	0.02	1.36	1.95	5.4	4.9	4.0	2.9	1.1	1.2	4.4	5.4	1.0/1.0	3'/2'	3'/2'
27	F	0.820	0.759	0.031	50	360													2462							8.0		7.0																					0.9			1.0/1.0		
28	O	0.827	0.785	0.031	50	360													2483							7.6		7.0																					1.5			1.0/1.0		
29	O	0.896	0.764	0.035	50	360													2690							7.5		7.0																					1.2			1.0/1.0		
30	O	0.846	0.866	0.031	50	360	278	2.2	1.6	2162	1824	1828	1665	6486	370		91	1961	2540	53189	1677	16	202	31	0.057	8.0	7.0	7.2	6.9	6.9	6.8	6.9	300	120	140	120	56	0.00	0.37	1.52	2.48	2.3	5.9	4.2	2.3	1.8	1.4			1.0/1.0	4.5'/2.5'	5'/2'
31	O	0.830	0.849	0.031	50	360	255	3.4	2.4	2142	1952	2029	1840	6698	380		91	1765	2492	54630	1732	24	187	31	0.051	8.1	7.0	7.2	6.9	6.8	6.8	6.9	320	120	140	120	52	0.05	0.13	1.33	2.78	2.9	6.6	4.3	2.2	1.2	1.6			1.0/1.0	5'/2.5'	5'/2.5'
Minimum		0.820	0.642	0.031	50	310	122	0.6	1.0	2000	1824	1828	1665	6486	360	18	89	974	2355	53136	1677	5	177	27	0.043	7.5	6.9	7.0	6.9	6.8	6.8	6.9	240	100	100	100	42	0.00	0.00	0.00	0.11	2.30	3.50	3.5	1.9	0.4	0.4	2.8	3.0				
Maximum		0.983	1.121	0.035	50	510	506	5.2	7.0	2331	2203	2256	2064	7980	410	26	92	3705	4181	60101	2063	39	202	32	0.080	8.3	7.1	7.3	7.0	7.0	7.0	7.0	360	120	140	120	80	0.15	0.37	2.22	2.82	6.50	7.80	6.8	4.9	1.9	2.7	6.4	5.4				
Average		0.888	0.861	0.031	50	378	306	2.9	2.6	2145	2055	2049	1869	7196	387	22	91	2260	2813	56042	1860	22	189	30	0.056	7.9	7.0	7.2	7.0	7.0	6.9	7.0	307	119	121	116	59	0.04	0.09	1.17	2.14	3.83	5.56	4.4	3.0	1.2	1.6	4.8	4.3				

Month	June	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec.Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	C	0.839	0.813	0.031	50	360	237	3.2	2.8	2128	1889	1952	1768	6812	370		91	1658	2519	53603	1761	22	190	30	0.053	8.1	7.0	7.2	6.9	6.9	6.9	6.9	300	120	120	120	50	0.06	0.20	1.23	2.72	3.4	6.6	4.6	2.4	1.0	1.4					1.0/1.0	5'/2.5'	5'/2'
2	O	0.815	0.845	0.031	50	280	397	3.8	2.2	2090	1932	1928	1754	6620	380	39	91	2698	1903	53670	1712	26	197	31	0.041	8.0	7.0	7.2	6.9	6.8	6.8	6.9	280	120	140	120	51	0.03	0.28	1.30	2.61	3.1	6.7	4.7	2.1	1.2	1.3	4.4	0.0	1.0/1.0	5'/2'	4'/2'
3	C	0.825	0.758	0.031	50	280													1927							7.8		7.1																					1.3			1.0/1.0		
4	F	0.871	0.753	0.031	50	280													2034							8.0		7.2																					1.2			1.0/1.0		
5	C	0.838	0.828	0.031	50	280	207	2.8	1.8	2133	1836	2023	1825	7080	390		90	1447	1957	52962	1830	20	193	29	0.040	7.5	7.0	7.3	6.9	6.9	6.8	6.9	240	120	140	120	36	0.06	0.53	1.32	2.25	1.3	5.2	3.6	1.9	1.4	1.4					1.0/1.0	4'/2'	3.5'/2'
6	O	0.832	0.800	0.031	50	280	387	3.2	2.4	2139	1872	2008	1809	6706	400		90	2685	1943	53523	1734	22	199	30	0.040	8.4	7.0	7.2	6.9	6.9	6.8	6.9	360	140	140	120	80	0.10	0.06	1.23	2.94	1.6	5.6	4.0	2.2	1.1	1.4					1.0/1.0	4'/2'	4'/2'
7	O	0.809	0.816	0.031	50	280	400	3.2	2.0	2154	1938	1098	1813	7114	390		91	2699	1889	54604	1839	22	195	29	0.039	8.4	7.0	7.2	6.9	6.8	6.8	6.9	400	120	140	120	76	0.23	0.05	1.27	2.84	2.1	6.6	4.6	2.4	1.0	1.3					1.0/1.0	4.5'/2.5'	4'/2'
8	O	0.813	0.839	0.031	50	280	443	2.8	1.6	2154	1883	1920	1737	6726	390		90	3004	1899	53870	1739	19	203	31	0.041	8.5	7.0	7.3	6.9	6.9	6.8	6.9	380	120	140	120	74	0.18	0.34	1.39	2.90	2.8	6.9	4.7	2.5	1.1	1.3					1.0/1.0	3.5'/3'	3'/2.5'
9	O	0.817	0.876	0.031	50	300	334	2.6	1.6	2155	1997	1959	1763	6742	410	34	90	2276	2044	55404	1743	18	209	31	0.043	7.8	7.0	7.2	6.9	6.9	6.8	6.9	320	120	140	120	54	0.00	0.61	1.59	2.52	3.3	7.8	5.5	2.7	1.2	1.1	3.2	4.8	1.0/1.0	5'/2.5'	4'/2'
10	O	0.834	0.734	0.031	50	300													2087							7.6		7.2																					1.1			1.0/1.0		
11	O	0.889	0.733	0.031	50	300													2224							7.5		7.2																					1.1			1.0/1.0		
12	O	0.850	0.842	0.031	50	300	288	3.4	1.6	2171	1958	2095	1894	6870	390		90	2042	2127	55124	1776	24	186	31	0.042	8.0	7.1	7.2	7.1	7.0	6.9	7.1	300	140	120	120	62	0.01	0.05	1.02	2.24	3.2	7.9	5.4	3.0	0.9	1.0					1.0/1.0	3'/2'	3'/2'
13	O	0.814	0.829	0.031	50	300	331	2.6	1.2	2124	1947	2034	1847	6342	380		91	2247	2037	54323	1640	18	187	33	0.041	8.1	6.9	7.2	6.9	6.9	6.8	6.8	300	120	120	120	98	0.11	0.63	1.39	2.50	3.3	1.6	5.4	3.1	1.0	1.0					1.0/1.0	3'/1.5'	3'/1.5'
14	O	0.823	0.819	0.031	50	300	366	2.4	1.4	2108	1833	2033	1842	6586	410		91	2512	2059	52589	1703	16	202	31	0.042	8.0	6.9	7.2	6.9	6.9	6.9	6.8	340	120	120	120	70	0.20	0.00	1.27	2.54	3.7	8.0	5.6	3.3	1.0	1.0					1.0/1.0	3'/2'	3'/2'
15	C	0.835	0.802	0.031	50	300	397	2.0	1.8	1971	1889	1962	1793	6784	390		91	2765	2089	51508	1754	14	199	29	0.044	7.9	7.0	7.1	7.0	7.0	6.9	7.0	360	120	120	120	66	0.08	0.19	0.94	2.12	6.3	8.9	6.4	3.4	1.0	0.9					1.0/1.0	3'/2'	3'/2'
16	C	0.825	0.865	0.031	50	780	112	3.4	1.6	1956	1964	1913	1735	6740	380	25	91	771	5367	52308	1743	23	199	30	0.116	7.4	7.0	7.1	6.9	6.9	6.8	6.9	300	120	120	120	30	0.06	0.16	1.19	2.02	5.8	8.6	7.4	3.8	1.0	0.8	3.2	6.0	1.0/1.0	3'/2'	3'/2'
17	F	0.813	0.742	0.031	50	780													5289							7.7		7.0																					0.9			1.0/1.0		
18	C	0.842	0.743	0.031	50	780													5477							8.1		7.1																					0.9			1.0/1.0		
19	O	0.847	0.819	0.031	50	780	386	2.0	1.4	1898	1811	1885	1720	6230	370		91	2727	5510	49493	1611	14	196	30	0.120	8.2	6.9	7.1	6.9	6.9	6.9	6.9	400	120	120	120	68	0.14	0.52	1.15	1.61	4.4	7.2	6.5	3.1	1.1	0.8					1.0/1.0	3'/2'	3'/2'
20	C	0.820	0.838	0.031	50	780	208	1.8	1.0	1974	1809	1952	1771	6478	390		91	1422	5334	50480	1675	12	200	30	0.113	8.0	7.0	7.1	6.9	6.9	6.9	7.0	360	120	120	120	54	0.04	0.02	1.08	1.69	4.3	7.9	6.1	3.3	1.0	0.7					1.0/1.0	3'/1.5'	3'/2'
21	F	0.804	0.815	0.031	50	780	274	2.0	1.4	2041	1810	2040	1839	5960	390		90	1837	5230	51388	1541	13	191	33	0.107	7.9	7.0	7.2	6.9	6.9	6.9	7.0	340	120	120	120	58	0.02	0.06	1.05	1.79	4.3	8.0	5.8	3.4	1.1	0.9					1.0/1.0	3'/2'	3'/2'
22	O	0.794	0.816	0.031	50	780	127	1.2	1.0	1549	1788	1921	1729	6636	370		90	841	5165	44529	1716	21	193	26	0.112	7.4	7.0	7.2	6.9	6.9	6.9	7.0	220	120	120	140	32	0.00	0.03	1.61	2.24	4.3	8.0	5.9	3.2	0.8	0.8					1.0/1.0	3'/2'	3'/2'
23	O	0.786	0.847	0.031	50	300	286	1.6	0.8	1923	1808	2036	1859	6382	380	25	91	1875	1967	49786	1650	10	187	30	0.040	8.1	7.0	7.0	6.9	6.9	6.9	7.0	320	120	120	140	50	0.08	0.10	1.14	2.33	4.6	8.4	6.3	3.4	0.8	0.8	3.2	6.6	1.0/1.0	3'/2'	3'/2'
24	O	0.781	0.708	0.031	50	300													1954							8.3		7.1																					0.8			1.0/1.0		
25	O	0.824	0.709	0.031	50	300													2062							7.7		7.1																					0.8			1.0/1.0		
26	O	0.816	0.840	0.031	50	300	171	1.4	0.6	1957	1692	1875	1709	6652	350		91	1164	2042	48692	1720	10	187	28	0.045	7.2	7.0	7.0	6.9	6.9	6.8	6.9	240	120	120	120	38	0.00	0.04	1.59	2.62	5.2	9.7	7.3	3.7	0.7	0.8					1.0/1.0	3'/2'	3'/2'
27	O	0.809	0.843	0.031	50	300	336	3.4	0.8	1952	1789	1984	1811	6304	360		91	2267	2024	49920	1630	23	181	30	0.042	8.1	7.1	7.0	7.0	6.9	6.9	7.0	360	140	140	120	68	0.02	0.02	1.94	2.56	4.7	9.6	6.8	3.6	0.9	1.0					1.0/1.0	4'/2.5'	4'/2'
28	O	0.798	0.841	0.031	50	300	163	1.6	0.8	2025	1816	2004	1810	6106	380		90	1082	1992	51254	1579	11	190	32	0.041	7.4	7.0	7.1	6.9	6.8	6.7	7.0	300	120	120	140	30	0.02	0.02	0.74	1.40	5.0	9.6	6.9	3.9	0.7	0.6					1.0/1.0	3'/2'	3'/2'
29	O	0.783	0.846	0.031	50	300	406	2.0	0.6	1998	1762	1791	1625	5770	360		91	2651	1959	50173	1492	13	201	33	0.045	7.3	7.0	6.9	6.9	6.9	6.8	7.0	260	120	120	120	34	0.01	0.03	1.39	1.91	4.6	9.6	6.8	3.3	0.7	0.7					1.0/1.0	4'/2'	3'/2'
30	O	0.790	0.861	0.031	50	340	251	2.4	0.2	1871	1977	1934	1762	6408	350	22	91	1654	2240	51348	1657	16	181	31	0.048	7.6	7.1	7.3	7.0	7.0	7.0	7.0	260	120	120	100	40	0.13	0.11	1.32	1.63	7.4	7.6	5.5	2.6	0.7	0.7	3.2	4.6	1.0/1.0	3'/2'	2.5'/2'
Minimum		0.781	0.708	0.031	50	280	112	1.4	0.2	1549	1692	1791	1625	5770	350	22	90	771	1889	44529	1492	10	181	26	0.039	7.2	6.9	6.9	6.9	6.8	6.7	6.8	220	120	120	100	30	0.00	0.00	0.74	1.40	1.30	1.60	3.6	1.9	0.7	0.6	3.2	0.0				
Maximum		0.889	0.876	0.031	50	780	443	3.8	2.8	2173	1997	2095	1894	7114	410	39	91	3004	5510	55404	1839	26	209	33	0.120	8.5	7.1	7.3	7.1	7.0	7.0	7.1	400	140	140	140	98	0.23	0.63	1.94	2.94	7.40	9.70	7.4	3.9	1.4	1.4	4.4	6.6				
Average		0.823	0.807	0.031	50	411	296	2.6	1.4	2022	1864	1966	1782	6548	381	29	91	2015	2812	51843	1693	18	194	30	0.069	7.9	7.0	7.1	6.9	6.9	6.9	6.9	313	123	126	122	55	0.07	0.18	1.28	2.27	4.03	7.55	5.7	3.0	1.0	1.0	3.4	4.4				

Month	July	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec. Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.770	0.775	0.031	50	340												2183								7.4		7.0																					1.0/1.0		
2	C	0.800	0.740	0.031	50	340												2268								7.8		7.1																					1.0/1.0		
3	O	0.793	0.809	0.031	50	340	202	3.6	1.0	2147	2029	2308	1815	5296	350		79	1336	2249	55725	1369	24	152	40	0.046	7.8	7.2	7.2	7.0	7.0	6.9	7.0	300	140	120	120	56	0.03	0.00	1.90	2.49	5.0	7.1	6.8	4.4	1.3	0.8			1.0/1.0	4'/3'	4'/3'
4	O	0.794	0.683	0.031	50	340												2251								8.0		7.1																					1.0/1.0		
5	O	0.801	0.689	0.031	50	340	417	2.6	1.2	2009	1975	1993	1814	6100	350		91	2786	2271	53162	1577	17	176	33	0.047	8.1	7.1	7.2	7.0	7.0	6.9	7.0	360	120	120	120	72	0.03	0.07	1.02	2.41	5.5	6.3	6.0	4.0	0.8	0.7			1.0/1.0	4'/2.5'	4'/3'
6	O	0.783	0.691	0.031	50	340	316	2.8	1.6	2093	1993	1918	1751	6048	350		91	2064	2220	54524	1564	18	182	34	0.048	8.0	7.1	7.2	7.0	7.0	6.9	7.0	320	120	120	120	52	0.00	0.00	1.50	2.18	5.4	7.8	5.7	3.4	0.8	0.8			1.0/1.0	3.5'/2'	3.5'/2'
7	O	0.772	0.619	0.031	50	310	279	2.8	2.6	2132	1999	1920	1751	5640	360	17	91	1796	1996	55124	1458	18	188	37	0.043	7.8	7.1	7.2	7.0	7.0	6.9	7.0	280	120	120	120	50	0.02	0.03	1.42	1.45	5.7	7.7	6.3	4.7	0.8	0.8	2.3	4.2	1.0/1.0	3.5'/2'	3.5'/2'
8	O	0.783	0.693	0.031	50	310												2024								7.8		7.0																					1.0/1.0		
9	O	0.821	0.690	0.031	50	310												2123								8.0		7.1																					1.0/1.0		
10	O	0.798	0.261	0.031	50	310	270	3.8	1.4	1989	1889	1900	1725	6962	340		91	1797	2063	51748	1800	25	179	28	0.045	7.7	7.1	7.1	7.0	7.0	7.0	7.0	300	120	120	100	54	0.00	0.05	0.44	1.78	6.2	7.7	5.8	3.7	1.0	1.1			1.0/1.0	3'/2'	3'/2.5'
11	O	0.793	0.000	0.031	50	310	243	1.6	N/A	2119	2028	1974	1780	7418	360		90	1607	2050	55338	1918	11	182	29	0.043	7.9	7.1	N/A	7.0	7.0	6.9	7.0	280	120	120	120	50	0.00	0.00	0.07	N/A	5.3	6.6	5.8	N/A	0.3	N/A			1.0/1.0	3'/2.5'	3'/2.5'
12	O	0.786	0.000	0.031	50	310	242	0.8	N/A	1983	1922	1935	1764	6692	340		91	1586	2032	52108	1730	5	176	30	0.043	7.7	7.0	N/A	6.9	6.9	6.9	6.9	320	120	120	120	66	0.04	0.09	0.06	N/A	5.0	6.5	4.9	N/A	0.6	N/A			1.0/1.0	3'/2'	3'/2'
13	O	0.784	0.415	0.031	50	310	233	2.0	2.0	2016	2010	1911	1733	6520	340		91	1523	2027	53723	1686	13	178	32	0.044	7.6	6.9	6.7	6.9	6.9	6.9	6.9	320	120	120	120	60	0.00	0.00	0.00	0.19	5.1	6.0	5.4	0.9	0.4	0.5			1.0/1.0	2.5'/2'	3'/2'
14	C	0.771	0.707	0.031	50	320	305	1.6	1.8	1966	2000	1893	1732	7516	360	23	91	1961	2058	52022	1043	10	190	27	0.045	8.3	6.9	6.9	6.9	6.9	6.9	6.9	260	120	120	120	42	0.04	0.07	1.22	0.71	5.5	4.8	5.5	1.8	1.1	1.0	3.5	5.4	1.0/1.0	3'/2'	3'/2'
15	O	0.773	0.713	0.031	50	320												2063								7.4		6.9																					1.1			1.0/1.0		
16	C	0.831	0.716	0.031	50	320												2218								7.5		6.8																					0.9			1.0/1.0		
17	O	0.828	0.722	0.031	50	320	357	4.8	0.2	1925	1818	1860	1712	6750	340		92	2465	2210	49947	1745	33	183	28	0.048	7.8	6.9	6.8	6.9	6.9	6.9	6.9	400	140	140	120	72	0.03	0.08	1.45	2.27	5.0	6.8	5.5	3.0	1.3	1.3			1.0/1.0	3'/2'	3.5'/3'
18	O	0.790	0.723	0.031	50	320	261	2.4	1.6	1900	1815	1742	1603	7496	340		92	1720	2108	49573	1938	16	195	25	0.049	7.5	7.0	7.0	7.0	7.0	6.9	7.0	240	120	120	120	44	0.00	0.00	1.50	2.14	5.7	7.6	5.4	3.0	1.0	1.3			1.0/1.0	3'/2.5'	3.5'/3'
19	O	0.782	0.723	0.031	50	320	374	3.2	1.6	2024	1868	1920	1750	6304	360		91	2439	2087	53935	1630	21	188	31	0.045	7.7	7.1	7.1	7.1	7.1	7.1	7.1	320	120	140	120	64	0.00	0.19	1.46	2.23	5.8	7.2	5.3	2.7	0.6	1.0			1.0/1.0	3'/2'	3'/2'
20	O	0.724	0.793	0.031	50	320	386	3.4	1.0	1923	1881	1864	1695	5548	180		91	2331	1932	50761	1434	21	204	35	0.043	8.2	7.1	7.1	7.1	7.1	7.0	7.1	380	120	120	120	76	0.00	0.02	1.64	2.16	5.4	7.3	5.4	2.9	1.1	1.1			1.0/1.0	3'/2.5'	3.5'/3'
21	O	0.771	0.720	0.031	50	320	267	6.0	1.0	2012	1963	1862	1698	6456	360	15	91	1717	2058	53042	1660	39	193	31	0.045	7.7	7.1	7.1	7.0	7.0	6.9	7.0	340	120	120	120	56	0.04	0.03	1.01	1.55	5.9	6.6	5.7	2.9	0.9	1.0	3.2	6.7	1.0/1.0	3'/2'	3'/1.5'
22	O	0.773	0.713	0.031	50	320												2063								7.5		7.2																					0.8			1.0/1.0		
23	O	0.810	0.713	0.031	50	320												2162								7.6		7.1																					0.7			1.0/1.0		
24	C	0.788	0.172	0.031	50	320	274	2.4	0.4	1952	1883	1998	1830	4996	380		92	1801	2103	51174	1292	16	190	39	0.043	7.6	6.9	6.7	6.9	6.9	6.9	6.9	340	120	120	120	56	0.02	0.03	1.58	2.31	4.8	6.1	5.2	2.6	0.7	0.7			1.0/1.0	3'/2.5'	3'/2'
25	C	0.780	0.714	0.031	50	320	305	2.6	0.8	1875	1887	1849	1688	7250	390		91	1958	2082	50200	1874	17	211	27	0.046	7.5	7.1	7.3	7.0	7.0	7.0	7.0	280	140	120	120	42	0.07	0.03	1.66	2.41	5.7	7.4	5.5	2.7	0.8	0.9			1.0/1.0	3'/2'	3'/2'
26	O	0.778	0.715	0.031	50	320	245	1.6	1.0	2000	1946	1883	1707	7154	380		91	1590	2076	52655	1850	10	202	28	0.046	7.7	7.1	7.1	7.0	7.0	6.9	7.0	300	120	140	140	56	0.03	0.04	1.44	2.10	3.6	5.0	4.9	2.8	0.5	1.0			1.0/1.0	3'/2'	3'/1.5'
27	C	0.780	0.719	0.031	50	320	274	1.8	1.6	1959	1863	1918	1747	5890	370		91	1782	2082	51001	1523	12	193	33	0.045	7.6	7.1	7.1	7.1	7.1	7.0	7.1	340	120	140	120	64	0.03	0.09	1.79	1.92	4.5	4.9	4.8	2.6	0.9	0.8			1.0/1.0	3.5'/2.5'	3'/2.5'
28	O	0.773	0.765	0.031	50	380	240	0.0	0.2	2004	1761	1807	1638	6396	390	16	91	1547	2450	50240	1654	0	216	30	0.056	7.9	7.0	7.1	6.9	6.9	6.8	7.0	340	160	140	160	58	0.00	0.00	1.17	1.58	3.0	6.4	4.6	2.2	0.7	1.1	2.0	3.5	1.0/1.0	3'/2'	4.5'/2.5'
29	O	0.779	0.718	0.031	50	380												2469								7.8		7.0																					0.8			1.0/1.0		
30	C	0.815	0.717	0.031	50	380												2583								7.6		7.0																					0.7			1.0/1.0		
31	O	0.803	0.746	0.031	50	380	406	1.8	1.0	1838	1741	1753	1600	5638	360		91	2719	2545	47758	1458	12	205	32	0.060	7.6	7.1	7.0	7.0	7.0	6.9	7.1	320	120	140	120	46	0.02	0.13	0.26		2.8	5.6	4.7	2.5	0.7	0.6			1.0/1.0	3'/2'	3'/2'
Minimum		0.724	0.000	0.031	50	310	202	0.0	0.2	1838	1741	1742	1600	4996	340	15	79	1336	1932	47758	1292	0	152	25	0.043	7.4	6.9	6.7	6.9	6.9	6.8	6.9	240	120	120	100	42	0.00	0.00	0.00	0.19	2.8	4.8	4.6	0.9	0.3	0.5	2.0	3.5					
Maximum		0.831	0.809	0.031	50	380	417	6.0	3.0	2147	2029	2308	1830	7516	390	23	92	2786	2583	55725	1943	39	216	40	0.060	8.3	7.2	7.3	7.1	7.1	7.1	7.1	400	160	140	160	76	0.07	0.19	1.90	2.49	6.2	7.8	6.8	4.7	1.3	1.3	3.5	6.7					
Average		0.788	0.631	0.031	50	329	295	2.6	1.3	1993	1914	1910	1727	6404	360	18	91	1926	2165	52133	1656	17	189	32	0.046	7.7	7.1	7.0	7.0	7.0	6.9	7.0	317	125	126	122	57	0.02	0.05	1.13	1.88	5.0	6.6	5.5	2.9	0.8	0.9	2.8	5.0					

Month	August	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec. Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.786	0.781	0.031	50	320	296	0.2	0.4	1911	1822	1834	1676	7576	380		91	1940	2098	49813	1959	1	207	25	0.047	7.4	7.0	7.0	7.0	7.0	7.0	6.9	7.0	300	140	140	140	44	0.00	0.00	2.47	2.83	4.2	6.0	4.5	2.4	0.7	0.8			1.0/1.0	3'/2'	2.5'/1.5'
2	O	0.776	0.934	0.035	50	320	376	1.0	0.8	1872	1786	1760	1611	5990	370		92	2433	2071	48812	1549	6	210	31	0.048	7.7	7.0	6.9	7.0	7.0	7.0	6.9	7.0	360	140	140	120	62	0.00	0.10	2.50	2.97	5.0	6.5	4.9	2.9	0.7	1.0			1.0/1.0	3'/2'	3'/2'
3	O	0.777	0.902	0.031	50	320	371	0.8	1.0	2000	1726	1780	1616	6026	360		91	2404	2074	50387	1558	5	202	32	0.048	7.6	7.1	7.1	7.0	7.0	6.9	7.0	340	140	140	120	66	0.00	0.01	2.48	3.32	4.6	6.4	5.0	2.7	0.9	1.3			1.0/1.0	3'/2.5'	3.5'/3'
4	O	0.784	0.768	0.031	50	360	361	1.0	2.0	1947	1790	1833	1680	5430	380	30	92	2360	2354	49867	1404	7	207	35	0.053	7.4	7.1	7.3	7.1	7.1	7.0	7.1	380	140	140	120	64	0.00	0.03	1.44	1.56	5.2	7.3	5.5	3.4	0.6	0.9	2.1	3.1	1.0/1.0	3'/2'	3'/2.5'
5	O	0.776	0.764	0.035	50	360													2330							7.6		7.1																					1.0/1.0		
6	O	0.815	0.761	0.031	50	360													2447							8.2		7.2																					1.0/1.0		
7	O	0.806	1.001	0.031	50	360	267	2.2	1.4	1950	1738	1869	1702	5926	390		91	1795	2420	49213	1532	15	209	32	0.053	8.1	7.2	7.2	7.1	7.1	6.9	7.2	380	140	140	140	74	0.00	0.01	1.64	2.16	2.6	5.8	4.6	2.5	0.5	2.0			1.0/1.0	2'/1.5'	3'/2.5'
8	O	0.786	0.935	0.031	50	360	187	1.0	1.6	1963	1796	1877	1715	5850	390		91	1226	2360	50160	1512	7	208	33	0.052	7.4	6.9	7.1	6.9	6.9	6.8	6.8	260	140	120	120	40	0.00	0.03	1.85	2.12	2.3	5.9	4.3	2.3	0.5	1.1			1.0/1.0	2'/1.5'	3'/2.5'
9	O	0.778	0.895	0.031	50	360	429	2.8	1.8	2022	1775	1894	1720	4860	380		91	2784	2336	50667	1257	18	201	40	0.051	7.8	7.0	7.1	6.9	7.0	6.9	6.9	400	160	140	140	80	0.00	0.14	1.75	2.20	2.5	5.9	4.3	2.4	0.6	1.5			1.0/1.0	3'/1.5'	3'/2.5'
10	O	0.787	0.744	0.031	50	360	240	1.0	1.6	1847	1778	1729	1577	5938	350		91	1575	2363	48372	1535	7	202	31	0.056	7.7	7.1	7.1	7.0	7.0	6.9	7.0	320	140	120	120	54	0.00	0.00	1.57	2.13	3.5	5.5	3.5	1.4	0.5	1.3			1.0/1.0	3'/2.5'	2'/2'
11	O	0.770	0.794	0.031	50	360	176	1.6	0.8	1957	1725	1891	1716	6178	380	42	91	1130	2312	49133	1597	10	201	31	0.050	7.5	6.9	7.0	6.9	6.9	6.8	6.7	320	140	160	140	50	0.02	0.04	1.62	2.12	3.5	6.7	4.8	3.0	0.5	1.3	2.3	3.4	1.0/1.0	3.5'/2'	3.5'/2.5'
12	C	0.756	0.717	0.031	50	360													2270							7.8		7.3																					2.1		1.0/1.0		
13	F	0.816	0.719	0.031	50	360													2450							8.0		7.2																					1.4		1.0/1.0		We
14	F	0.786	0.873	0.031	50	360	448	7.6	0.8	1970	1744	1740	1580	5742	350		91	2937	2360	49560	1485	50	201	32	0.056	8.2	7.0	7.2	6.9	6.9	6.9	6.9	380	160	160	160	74	0.03	0.11	1.55	2.20	2.6	5.2	4.3	2.1	1.8	1.1			1.0/1.0	3'/2'	2.5'/1.5'
15	C	0.765	0.896	0.031	50	360	309	2.0	1.4	1891	1764	1770	1607	6518	340		91	1971	2297	48772	1685	13	192	29	0.054	7.6	7.0	7.0	7.0	7.0	7.0	7.0	360	160	140	140	62	0.00	0.01	1.62	2.01	6.3	8.3	6.9	4.4	0.8	1.1			1.0/1.0	2.5'/2'	3'/2.5'
16	O	0.782	0.917	0.031	50	360	421	2.0	1.4	1790	1772	1825	1655	5642	350		91	2746	2348	47531	1459	13	192	32	0.053	7.9	7.1	7.0	7.1	7.1	7.0	7.1	400	140	140	140	64	0.00	0.03	1.51	1.99	4.8	6.5	5.1	3.0	0.5	1.4			1.0/1.0	2.5'/2'	3'/2.5'
17	O	0.764	0.768	0.031	50	360	85	2.4	1.4	2020	1836	1812	1649	5888	360		91	542	2294	51454	1522	15	199	33	0.052	7.4	7.1	7.1	7.0	7.0	6.9	7.0	280	160	140	140	34	0.00	0.04	1.56	2.16	3.7	6.0	4.5	2.4	0.7	1.3			1.0/1.0	3'/1.5'	3'/1.5'
18	O	0.751	0.905	0.031	50	290	221	0.8	1.0	1851	1686	1830	1669	5650	360	22	91	1384	1816	47198	1461	5	197	32	0.041	7.3	7.1	7.0	7.0	7.0	6.9	7.1	260	140	140	140	40	0.00	0.02	1.70	2.31	4.4	7.2	5.1	2.5	0.8	1.4	2.8	5.0	1.0/1.0	4'/2'	3'/1.5'
19	O	0.786	0.722	0.031	50	290													1901							7.7		7.0																					1.1		1.0/1.0		
20	O	0.820	0.723	0.031	50	290													1983							7.7		7.1																					1.1		1.0/1.0		
21	O	0.804	0.898	0.031	50	290	193	3.4	1.6	1893	1787	1804	1658	5826	340		92	1294	1945	49106	1506	23	188	32	0.044	7.4	7.1	7.2	7.1	7.1	7.0	7.1	280	140	140	140	38	0.02	0.04	1.79	2.04	6.5	7.7	6.6	3.4	1.0	1.3			1.0/1.0	3'/2.5'	3'/2'
22	O	0.789	0.909	0.031	50	290	207	3.2	3.2	1908	1883	1867	1691	5988	350		91	1362	1908	50587	1548	21	187	32	0.042	7.9	7.1	7.2	7.1	7.1	6.9	7.1	360	140	140	140	64	0.06	0.03	1.51	1.89	7.0	7.2	5.6	3.4	0.7	1.3			1.0/1.0	3'/1.5'	3'/2'
23	O	0.781	0.863	0.031	50	290	369	2.6	0.8	1818	1670	1771	1610	5672	350		91	2403	1889	46544	1466	17	198	31	0.044	7.7	7.2	7.1	7.1	7.1	6.9	7.1	340	140	140	140	60	0.00	0.02	1.50	2.14	5.5	8.6	6.0	3.1	0.7	1.7			1.0/1.0	3'/1.5'	3'/1.5'
24	C	0.773	0.860	0.031	50	290	350	1.4	0.6	1863	1796	1803	1647	6480	330		91	2256	1870	48826	1675	9	183	29	0.043	7.7	7.1	7.0	7.1	7.1	7.0	7.1	360	140	140	120	72	0.00	0.01	1.36	2.10	8.8	9.7	7.5	3.6	0.6	2.2			1.0/1.0	3'/2'	3'/2'
25	O	0.759	0.853	0.031	50	310	248	3.4	2.6	1957	1761	1787	1619	7190	340	18	91	1570	1962	49613	1859	22	190	26	0.045	7.5	7.1	7.2	7.0	7.0	6.9	7.0	340	140	140	140	50	0.02	0.07	1.35	1.56	6.8	9.8	7.4	4.0	0.6	3.1	3.2	5.1	1.0/1.0	3'/2'	3'/2'
26	O	0.779	0.717	0.031	50	310													2014							7.4		6.9																					2.0		1.0/1.0		
27	O	0.849	0.710	0.031	50	310													2195							7.6		7.1																					1.7		1.0/1.0		
28	O	0.793	0.871	0.031	50	310	393	2.6	2.4	2007	1837	1954	1780	6632	360		91	2599	2050	51294	1715	17	184	30	0.043	8.1	7.1	7.2	7.1	7.1	7.1	7.1	400	140	140	120	76	0.00	0.02	1.51	2.32	6.7	8.9	7.4	3.9	0.6	2.9			1.0/1.0	3'/1.5'	3'/2'
29	C	0.782	0.871	0.031	50	310	280	2.2	1.6	2035	1809	1884	1718	7076	340		91	1826	2022	51294	1829	14	180	28	0.044	7.4	7.0	7.2	7.0	7.0	7.0	7.0	260	160	140	140	42	0.04	0.23	1.47	2.11	6.1	7.4	5.8	3.3	0.7	6.2			1.0/1.0	3'/2.5'	3'/2'
30	C	0.773	0.856	0.031	50	310	385	1.8	3.0	1987	1977	1933	1768	7466	350		91	2482	1999	52896	1930	12	181	27	0.042	7.9	7.1	7.1	7.0	7.0	7.0	7.0	380	140	140	120	66	0.00	0.02	1.05	2.08	6.5	7.3	6.0	3.3	0.6	6.1			1.0/1.0	2.5'/1'	2'/1'
31	O	0.771	0.873	0.031	50	310	277	2.6	2.8								90	1781	1993	50747	1765	17	184	28	0.045	7.6	7.1	7.2	7.1	7.1	7.0	7.1					76	0.05	0.02	1.30	2.32	7.4	7.6	6.4	3.8	0.9	4.4			1.0/1.0	3'/2'	3'/2.5'
Minimum		0.751	0.710	0.031	50	290	85	0.2	0.4	1790	1670	1729	1577	4860	330	18	90	542	1816	46544	1257	1	180	25	0.041	7.3	6.9	6.9	6.9	6.9	6.8	6.7	260	140	120	120	34	0.00	0.00	1.05	1.56	2.3	5.2	3.5	1.4	0.5	0.8	2.1	3.1				
Maximum		0.849	1.001	0.035	50	360	448	7.6	3.2	2035	1977	1954	1780	7576	390	42	92	2937	2450	52896	1959	50	210	40	0.056	8.2	7.2	7.3	7.1	7.1	7.1	7.2	400	160	160	160	80	0.06	0.23	2.50	3.32	8.8	9.8	7.5	4.4	1.8	6.2	3.2	5.1				
Average		0.785	0.832	0.031	50	329	300	2.2	1.6	1930	1787	1820	1667	6161	359	28	91	1948	2153	49645	1600	14	196	31	0.048	7.7	7.1	7.1	7.0	7.0	6.9	7.0	339	145	140	134	59	0.01	0.04	1.66	2.20	5.1	7.1	5.5	3.0	0.7	1.9	2.6	4.2				

Month	September	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	O	0.750	0.830	0.031	50	340	296	2.0	1.6	1977	1970	1858	1707	6480	340	20	92	1851	2127	52660	1675	13	183	31	0.047	8.0	7.1	6.9	7.1	7.1	7.0	7.1	380	160	140	140	48	0.04	0.04	1.36	1.55	6.9	6.8	6.0	5.1	0.8	3.2	4.3	4.8	1.0/1.0	3'/2.5'	3'/2'
2	O	0.778	0.708	0.031	50	340													2206							7.4		7.0																			1.6			1.0/1.0		
3	O	0.790	0.709	0.031	50	340													2240							7.2		7.0																			2.5			1.0/1.0		
4	S	0.861	0.714	0.031	50	340													2441							7.6		7.1																			2.1			1.0/1.0		
5	O	0.786	0.866	0.031	50	340	442	2.2	0.6	2020	1870	1815	1661	6538	330		92	2897	2229	51908	1690	14	182	30	0.050	7.7	7.1	7.1	7.1	7.1	7.0	7.1	380	140	140	140	64	0.33	0.53	1.45	2.09	5.1	7.5	5.8	4.6	0.7	2.0			1.0/1.0	3'/2'	2.5'/1.5'
6	O	0.777	0.861	0.031	50	340	288	1.4	1.6	1984	1886	1826	1667	6754	325		91	1866	2203	51641	1746	9	178	29	0.050	7.6	7.1	7.0	7.0	7.0	6.9	7.0	320	140	140	120	46	0.10	0.17	1.51	2.66	5.3	6.1	5.5	3.8	0.9	2.9			1.0/1.0	3'/2.5'	3'/2'
7	O	0.781	0.856	0.031	50	340	254	0.6	1.4	1978	1879	1895	1726	7050	330		91	1659	2220	51468	1823	4	174	28	0.048	7.7	7.0	7.0	7.0	7.0	6.9	7.0	360	140	160	140	64	0.00	0.00	1.29	1.85	5.4	6.7	6.0	4.6	0.5	1.4			1.0/1.0	2.5'/2'	3'/2.5'
8	C	0.755	0.201	0.031	50	340	375	1.4	2.4	1947	1953	1951	1782	6746	330	25	91	2361	2141	52042	1744	9	169	30	0.045	7.7	7.1	6.9	7.0	7.0	6.9	7.0	340	140	140	140	66	0.00	0.00	0.60	1.84	7.6	7.6	6.8	4.9	0.5	1.4	2.3	0.0	1.0/1.0	3'/2'	3'/2'
9		0.764	0.000	0.031	50	340													2166																															1.0/1.0		
10		0.824	0.000	0.031	50	340													2337																															1.0/1.0		
11	C	0.778	0.000	0.031	50	340	302	1.2		1903	1938	1861	1695	7418	330		91	1960	2206	51254	1918	8	177	27	0.049	7.7	6.9		6.9	6.9	6.9	6.9	360	140	140	120	62	0.06	0.15	0.56		7.3	8.3	7.1		0.4				1.0/1.0	3'/2.5'	3'/2'
12	C	0.764	0.000	0.031	50	340	205	2.6		1922	1844	1804	1640	7266	330		91	1306	2166	50254	1879	17	183	27	0.049	7.6	7.1		6.9	7.0	6.9	6.9	340	120	140	120	58	0.07	0.24	0.05		6.9	7.6	6.2		0.4				1.0/1.0	3'/1.5'	3'/2'
13	F	0.772	0.394	0.031	50	340	328	2.6	2.0	1847	1632	1757	1568	6420	330		89	2112	2189	46424	1660	17	182	28	0.052	7.7	7.2	7.1	7.1	7.1	6.9	6.9	380	160	140	120	64	0.35	0.62	0.12	0.31	6.2	9.4	1.7	0.8	1.4	1.8			1.0/1.0	4'/3'	4'/2.5'
14	C	0.758	0.816	0.031	50	340	316	3.0	3.4	1892	1861	1840	1670	7004	330		91	1998	2149	50080	1811	19	179	27	0.048	7.6	7.0	7.2	7.0	7.0	6.9	7.0	340	140	120	120	64	0.05	0.13	1.78	1.79	9.6	11.1	8.6	3.7	0.5	1.4			1.0/1.0	3'/2.5'	3'/2'
15	F	0.745	0.800	0.031	50	490	351	2.0	3.2	1875	1688	1768	1613	6282	330	30	91	2181	3045	47545	1624	12	187	29	0.071	7.6	7.0	6.9	7.0	7.0	6.9	7.0	360	140	120	120	68	0.07	0.06	1.72	1.78	10.4	6.1	8.4	3.3	0.8	1.7	4.8	7.2	1.0/1.0	4'/2'	4'/2.5'
16	O	0.768	0.650	0.031	50	490													3139							7.7		7.0																			1.9			1.0/1.0		
17	O	0.820	0.645	0.031	50	490													3351							7.9		7.1																			2.1			1.0/1.0		
18	O	0.784	0.805	0.011	50	490	323	2.4	2.6	2052	1909	1898	1724	7218	340		91	2112	3204	52856	662	16	180	offline	0.070	7.7	6.9	7.2	6.9	6.9	6.9	6.9	360	160	140	140	54	0.00	0.06	0.60	1.85	5.2	9.4	7.0	3.5	0.4	2.3			1.0/1.0	6.5'/3.5'	offline
19	O	0.755	0.791	0.000	50	490	260	1.8	1.8	1950	1775	1800	1649	7464	330		92	1637	3085	49706	0	11	183	offline	0.070	7.8	7.0	7.1	7.0	7.0	6.9	7.0	360	140	140	140	64	0.12	0.39	1.18	1.84	3.9	6.9	5.6	2.3	0.6	2.3			1.0/1.0	5'/3.5'	offline
20	C	0.744	0.783	0.020	52	490	382	1.8	2.2	2119	1922	1960	1648	6448	350		84	2370	3040	53923	1076	11	179	50	0.069	7.7	7.2	7.4	7.1	7.1	7.0	7.0	360	120	140	120	62	0.02	0.06	1.20	2.04	2.9	6.4	4.8	3.9	0.5	3.6			1.0/1.0	3'/1.5'	offline
21	C	0.762	0.796	0.031	50	490	156	2.8	3.0	2065	1979	1981	1775	6102	360		90	991	3114	53963	1578	18	182	34	0.066	7.6	7.2	7.0	7.1	7.1	7.2	7.1	280	140	140	140	48	0.01	0.26	1.43	2.31	2.9	6.5	4.4	2.2	0.7	4.0			1.0/1.0	2'/1'	Offline
22	C	0.733	0.791	0.031	50	460	403	4.8	2.2	2071	1880	1918	1742	6000	360	18	91	2457	2804	52722	1551	29	188	33	0.060	7.5	7.1	7.0	7.1	7.0	7.1	7.1	240	140	140	140	52	0.01	0.12	1.32	2.21	3.0	6.0	4.2	1.9	0.9	3.5	3.2	0.0	1.0/1.0	3'/1.5'	offline
23	O	0.750	0.635	0.031	50	460													2877							8.3		7.0																			3.6			1.0/1.0		
24	O	0.813	0.634	0.031	50	460													3119							8.2		7.3																			4.6			1.0/1.0		
25	R	0.857	0.770	0.012	50	460	380	3.0	5.0	2099	2164	2044	1845	3740	340		90	2716	3288	56885	374	21	166	offline	0.067	7.8	7.0	7.1	7.0	7.0	7.0	7.0	380	140	140	140	70	0.26	0.24	0.80	1.70	4.7	4.2	4.3	2.4	0.7	3.0			1.0/1.0	OFFLINE	Filling
26	O	0.777	0.749	0.021	68	460	344	3.0	5.0	2054	1946	2026	1832	7422	330		90	2229	2981	53376	1300	19	163	40	0.061	7.6	7.1	7.0	7.0	7.0	6.9	7.0	340	140	140	120	60	0.05	0.13	0.05	0.24	7.5	8.7	6.8	3.0	0.5	2.2			1.0/1.0	OFFLINE	4'/3.5'
27	O	0.763	0.740	0.031	50	460	321	3.4	5.2	2110	2148	2181	1986	6906	350		91	2043	2927	56819	1785	22	160	31	0.055	8.1	7.0	7.1	6.9	6.9	6.9	6.9	380	140	120	120	72	0.00	0.04	1.33	0.93	6.0	7.1	6.8	2.8	0.4	2.5			1.0/1.0	OFFLINE	4'/2.5'
28	C	0.748	0.772	0.031	50	460	414	2.8	4.2	2071	2106	2037	1835	7816	350		90	2624	2916	55738	2021	18	172	27	0.060	8.6	7.1	7.1	7.0	6.9	7.0	7.0	440	140	120	120	80	0.07	0.15	1.05	1.00	6.8	7.1	6.9	2.5	0.5	2.2			1.0/1.0	OFFLINE	4.5'/2'
29	R	0.756	0.796	0.035	50	460	337	3.4	4.0	2048	2172	2119	1918	6612	350	26	91	2125	2900	56312	1709	21	165	33	0.057	8.0	7.0	7.2	6.9	6.9	6.9	6.9	360	140	120	120	60	0.00	0.02	1.31	0.91	6.5	7.0	6.6	3.0	0.4	2.1	5.5	0.0	1.0/1.0	FILL	3'/2'
30	C	0.791	0.654	0.031	50	460													3035							8.0		7.0																			1.3			1.0/1.0		
Minimum		0.731	0.000	0.000	50	340	156	0.6	0.6	1847	1632	1757	1568	3740	320	18	84	991	2127	46424	0	4	160	27	0.045	7.4	6.9	6.9	6.9	6.9	6.9	6.9	240	120	120	120	46	0.00	0.00	0.05	0.24	2.9	4.2	1.7	0.8	0.4	1.3	2.3	0.0			
Maximum		0.861	0.866	0.031	68	490	442	4.8	5.2	2119	2172	2181	1986	7816	360	30	92	2897	3351	56885	2021	29	188	50	0.071	8.6	7.2	7.4	7.1	7.1	7.2	7.1	440	160	160	140	90	0.35	0.62	1.79	2.66	10.4	11.1	8.6	5.1	1.4	4.6	5.5	7.2			
Average		0.777	0.626	0.028	51	411	324	2.4	2.9	1999	1926	1917	1734	6684	338	24	91	2075	2662	53179	1481	15	177	31	0.057	7.8	7.1	7.1	7.0	7.0	7.0	7.0	353	141	136	129	62	0.08	0.17	1.06	1.61	6.0	7.3	6.0	3.2	0.6	2.4	4.0	2.4			

Month | October | 2023 | | McKinleyville WWMF

Day	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M
1	C	0.852	0.653	0.031	50	460													3269						
2	C	0.777	0.824	0.031	50	460	303	3.0	4.8	2043	1970	1969	1800	7488	340		91	1963	2981	53549	1936	19	173	27	0.062
3	R	0.759	0.818	0.031	50	460	258	3.6	4.6	2030	1934	1935	1752	7236	330		91	1633	2912	52896	1871	23	171	28	0.062
4	C	0.756	0.842	0.031	50	460	465	4.2	4.4	1979	1953	1853	1700	7480	320		92	2932	2900	52469	1934	26	173	27	0.064
5	C	0.745	0.804	0.031	50	460	390	2.4	3.4	2018	1890	1903	1731	7228	320		91	2423	2858	52148	1869	15	168	28	0.062
6	C	0.745	0.811	0.031	50	520	312	3.4	3.4	2033	1859	1943	1770	7428	330	22	91	1939	3231	51935	1920	21	170	27	0.068
7	F	0.769	0.648	0.031	50	520													3335						
8	F	0.829	0.628	0.031	50	520													3595						
9	R	0.801	0.611	0.031	50	520													3474						
10	R	0.795	0.781	0.031	50	460	221	2.6	2.8	2103	1989	1867	1706	7470	320		91	1465	3050	54604	1931	17	171	28	0.067
11	R	0.792	0.776	0.031	50	460	260	1.8	1.4	2124	1887	2034	1838	7556	340		90	1717	3038	53523	1954	12	167	27	0.062
12	C	0.765	0.805	0.031	50	460	190	1.0	2.2	2032	1738	1867	1672	7010	330		90	1212	2935	50307	1812	6	177	28	0.066
13	O	0.753	0.778	0.031	50	310	206	3.0	3.6	2028	1972	1856	1690	7368	330	16	91	1294	1947	53376	1905	19	178	28	0.043
14	O	0.776	0.613	0.031	50	310													2006						
15	C	0.832	0.611	0.031	50	310													2151						
16	R	0.800	0.787	0.031	50	310	375	1.8	2.4	1959	1672	1737	1577	6620	310		91	2502	2068	48452	1712	12	178	28	0.049
17	O	0.796	0.756	0.031	50	310	330	1.6	3.0	2154	1757	1741	1587	7994	300		91	2191	2058	52188	2067	11	172	25	0.049
18	O	0.773	0.807	0.031	50	310	282	3.2	2.6	2010	1871	1890	1724	7894	310		91	1818	1999	51788	2041	21	164	25	0.043
19	O	0.763	0.804	0.031	50	310	405	2.2	2.4	2083	1691	1965	1775	6938	320		90	2577	1973	50360	1794	14	163	28	0.042
20	O	0.756	0.816	0.031	50	310	512	3.2	1.8	2037	1807	1897	1736	7190	330	13	92	3228	1955	51294	1859	20	174	27	0.042
21	O	0.766	0.618	0.031	50	310													1980						
22	R	0.866	0.617	0.031	50	310													2239						
23	O	0.810	0.807	0.031	50	310	337	4.0	2.2	2080	1697	1952	1790	8642	320		92	2277	2094	50400	2234	27	164	22	0.044
24	O	0.775	0.765	0.031	50	310	337	5.2	2.4	2023	1807	1819	1652	7118	290		91	2178	2004	51108	1840	34	159	27	0.045
25	R	0.775	0.736	0.031	50	310	414	6.2	2.0	2109	1777	1973	1793	6992	310		91	2676	2004	51855	1808	40	157	28	0.042
26	C	0.771	0.728	0.031	50	310	221	3.4	2.2	1896	1854	1887	1723	6942	320		91	1421	1993	50040	1795	22	170	28	0.043
27	C	0.760	0.732	0.031	50	360	305	3.4	4.6	2088	1749	1893	1712	7158	320	12	90	1933	2282	51201	1851	22	169	27	0.050
28	C	0.772	0.608	0.031	50	360													2318						
29	C	0.829	0.606	0.031	50	360													2489						
30	C	0.787	0.735	0.031	50	360	269	3.0	6.0	2003	1703	1862	1679	6688	320		90	1766	2363	49453	1729	20	172	28	0.053
31	C	0.729	0.736	0.031	50	360	409	3.0	3.2	1986	1681	1885	1726	6076	310		92	2487	2189	48932	1571	18	164	31	0.048
Minimum		0.729	0.606	0.031	50	310	190	1.0	1.4	1896	1672	1737	1577	6076	290	12	90	1212	1947	48452	1571	6	157	22	0.042
Maximum		0.866	0.842	0.031	50	520	512	6.2	6.0	2154	1989	2034	1838	8642	340	22	92	3228	3595	54604	2234	40	178	31	0.068
Average		0.783	0.731	0.031	50	384	324	3.1	3.1	2039	1822	1892	1721	7263	320	16	91	2078	2506	51518	1878	20	169	27	0.053

Day	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	8.0		7.1																			2.1			1.0/1.0		
2	8.4	7.1	7.1	7.0	7.0	6.9	7.0	340	120	120	120	86	0.01	0.04	0.85	1.40	7.4	9.4	8.2	3.7	0.7	1.6			1.0/1.0	3'/2'	3'/2.5'
3	8.1	7.1	7.2	7.0	7.0	6.9	7.0	360	140	140	120	68	0.08	0.13	0.94	1.17	7.0	8.4	7.2	3.5	0.7	1.6			1.0/1.0	3'/2.5'	3'/2.5'
4	8.4	7.1	7.1	7.0	7.0	6.9	7.0	440	140	120	120	82	0.00	0.13	0.86	1.29	7.4	8.8	7.5	3.4	0.8	1.5			1.0/1.0	3'/2.5'	3'/2'
5	8.1	7.1	7.1	7.0	7.0	6.9	7.0	380	120	120	120	70	0.01	0.00	0.80	1.32	8.6	9.7	7.9	3.5	0.8	1.2			1.0/1.0	2'/1.5'	3'/2.5'
6	8.4	7.1	7.1	7.0	7.0	6.9	6.9	340	120	140	120	52	0.01	0.16	0.79	0.84	8.5	10.0	7.7	4.8	1.1	1.5	6.2	0.0	1.0/1.0	2.5'/2'	3'/2.5'
7	8.0		7.1																			1.5			1.0/1.0		
8	8.5		7.1																			1.4			1.0/1.0		
9	7.9		7.1																			1.7			1.0/1.0		
10	7.7	7.1	7.1	7.0	7.0	6.9	7.0	300	140	140	140	50	0.00	0.00	0.58	1.17	7.2	9.1	8.2	2.8	0.4	1.7			1.0/1.0	3'/1'	3'/1.5'
11	7.9	7.1	7.1	6.9	6.9	6.8	6.8	320	120	120	120	52	0.00	0.00	0.76	1.18	4.1	8.9	6.5	1.7	0.5	1.9			1.0/1.0	1.5'/.5'	2'/1.5'
12	7.9	7.1	7.1	6.9	6.9	6.8	7.0	320	120	140	120	64	0.03	0.45	0.62	1.50	6.1	10.0	7.7	2.6	0.4	3.1			1.0/1.0	1.0'/0.5'	2.5'/1.5'
13	8.0	7.1	7.1	7.0	7.0	6.9	7.0	320	120	120	120	60	0.03	0.21	0.55	1.35	9.0	10.3	10.2	3.9	0.4	2.7	3.7	2.1	1.0/1.0	3'/1.5'	2.5'/1'
14	7.6		7.1																			2.1			1.0/1.0		
15	7.8		7.1																			2.2			1.0/1.0		
16	7.8	7.0	7.0	6.9	6.9	6.9	6.9	380	120	120	120	74	0.03	0.13	0.21	1.21	7.4	11.3	9.3	3.5	0.4	2.8			1.0/1.0	3'/1.5'	3'/2.5'
17	7.9	7.1	7.1	6.9	6.8	6.8	6.9	320	120	120	140	60	0.16	0.07	0.81	1.56	5.8	10.7	8.2	3.3	0.4	2.7			1.0/1.0	2'/1'	2'/1.5'
18	8.1	7.0	7.0	7.0	7.0	6.9	7.0	360	140	140	120	70	0.04	0.10	0.97	1.97	7.7	10.6	8.5	3.6	1.4	2.3			1.0/1.0	3'/2'	3'/1.5'
19	8.4	7.0	7.0	7.0	6.9	6.9	7.0	380	120	120	120	84	0.00	0.00	0.95	1.98	5.7	10.8	8.0	1.5	0.5	2.7			1.0/1.0	2'/1'	2.5'/2'
20	8.1	7.1	7.0	6.9	6.9	6.9	6.9	380	140	140	140	66	0.05	0.23	0.81	1.79	6.4	11.5	7.9	3.0	0.6	3.1	3.8	3.7	1.0/1.0	2'/1'	2.5'/1.5'
21	7.9		7.0																			2.6			1.0/1.0		
22	7.9		7.0																			3.1			1.0/1.0		
23	8.0	7.0	7.1	6.8	6.8	6.8	6.8	340	140	120	120	64	1.85	2.01	0.56	1.98	12.7	17.5	11.5	4.1	1.2	3.2			0.9/0.9	3'/2'	4'/2'
24	8.1	6.9	7.1	6.8	6.7	6.8	6.8	360	120	120	120	60	0.02	0.40	0.82	2.36	15.2	19.5	15.1	4.4	1.3	3.4			0.9/0.9	3'/1.5'	3'/1.5'
25	8.4	6.9	7.1	6.8	6.8	6.9	6.8	420	120	140	100	84	0.08	0.08	0.57	2.16	12.7	17.4	15.1	4.2	1.0	3.4			0.9/0.9	3'/1'	3.5'/2'
26	8.2	7.0	7.1	6.9	6.9	6.9	6.9	340	100	100	120	64	0.00	0.00	0.43	2.24	15.0	15.8	13.2	4.5	0.4	2.6			0.9/0.9	3'/1.5'	3'/2'
27	7.6	7.0	7.3	6.8	6.8	6.9	6.8	280	100	100	100	52	0.10	0.18	0.46	1.97	11.1	16.1	14.8	6.5	0.6	2.2	3.5	6.8	0.9/0.9	2'/.5'	2'/.5'
28	8.0		7.1																			2.8			0.9/0.9		
29	7.4		7.1																			2.8			0.9/0.9		
30	8.1	7.0	7.0	6.9	6.8	6.9	6.8	320	100	120	100	58	0.02	0.12	0.69	1.93	9.6	15.4	12.3	5.0	0.6	3.0			0.9/0.9	1'/.5'	1.5'/.5
31	7.7	7.0	7.1	6.9	6.8	6.9	6.9					58	0.33	0.61	0.48	1.90	8.5	13.9	12.1	5.3	0.5	2.8			0.9/0.9	3'/1'	4'/2'
Minimum	7.4	6.9	7.0	6.8	6.7	6.8	6.8	280	100	100	100	50	0.00	0.00	0.21	0.84	4.1	8.4	6.5	1.5	0.4	1.2	3.5	0.0			
Maximum	8.5	7.1	7.3	7.0	7.0	6.9	7.0	440	140	140	140	86	1.85	2.01	0.97	2.36	15.2	19.5	15.1	6.5	1.4	3.4	6.2	6.8			
Average	8.0	7.0	7.1	6.9	6.9	6.9	6.9	350	123	125	120	66	0.14	0.24	0.69	1.63	8.7	12.1	9.9	3.8	0.7	2.4	4.3	3.2			

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Month	November	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M
1	C	0.787	0.745	0.031	50	360	178	4.6	3.2	1902	1711	1735	1573	7208	300		91	1168	2363	48212	1864	30	173	25	0.056
2	R	0.779	0.743	0.031	50	360	224	3.2	4.6	2068	1811	1866	1696	7120	310		91	1455	2339	51761	1841	21	166	28	0.052
3	O	0.768	0.804	0.031	50	350	289	4.2	4.2	2001	1880	1979	1808	7286	320	18	91	1851	2242	51788	1884	27	162	27	0.046
4	O	0.809	0.590	0.031	50	350													2361						
5	C	0.936	0.606	0.031	50	350													2732						
6	R	0.912	0.661	0.031	50	350	340	4.4	2.4	2135	1890	1814	1656	7640	310		91	2586	2662	53710	1975	33	171	27	0.060
7	S	0.845	0.778	0.031	50	350	131	4.0	3.4	2072	1754	1834	1665	7874	300		91	923	2467	51054	2036	28	164	25	0.056
8	C	0.802	0.861	0.028	50	350	328	2.4	4.4	1933	1688	1855	1672	6842	310		90	2194	2341	48319	1598	16	167	30	0.052
9	S	0.771	0.910	0.031	50	350	227	2.6	3.6	1973	1657	1852	1670	6695	320		90	1460	2251	48439	1731	17	173	28	0.050
10	o	0.800	0.807	0.031	50	350										20			2335						
11	c	0.798	0.795	0.031	50	350													2329						
12	o	0.859	0.786	0.031	50	350													2507						
13	o	0.805	0.871	0.027	50	350	350	2.4	4.8	1960	1987	1907	1753	7334	330		92	2350	2350	52669	1651	16	173	32	0.050
14	R	0.815	1.014	0.029	50	350	311	3.2	2.8	1907	1875	1880	1720	7500	330		91	2114	2379	50467	1814	22	176	27	0.052
15	R	0.827	1.026	0.031	50	350	354	4.8	3.2	2146	1831	1923	1750	7688	310		91	2442	2414	53069	1988	33	161	26	0.052
16	C	0.795	0.975	0.031	50	350	245	3.2	2.6	2124	1798	1921	1749	6646	330		91	1624	2321	52335	1718	21	172	30	0.050
17	C	0.787	1.028	0.031	50	510	290	3.2	1.4	1964	1739	1769	1614	6454	310	34	91	1903	3347	49413	1669	21	175	29	0.078
18	R	0.814	0.911	0.031	50	510													3462						
19	C	0.862	0.907	0.031	50	510													3666						
20	C	0.813	0.996	0.030	50	510	417	2.8	2.0	2038	1702	1826	1675	6970	330		92	2827	3458	49907	1744	19	181	28	0.077
21	C	0.795	1.037	0.031	50	510	152	2.8	2.6	1948	1711	1753	1602	5562	330		91	1008	3381	48826	1438	19	188	34	0.079
22	C	0.803	1.019	0.031	50	440	100	2.8	2.0	1922	1766	1895	1710	6848	350	31	90	670	2947	49213	1770	19	185	28	0.065
23	C	0.837	0.909	0.031	50	440													3071						
24	C	0.770	0.914	0.031	50	440													2826						
25	C	0.787	0.921	0.031	50	440													2888						
26	C	0.860	0.920	0.031	50	440													3156						
27	C	0.799	0.986	0.031	50	440	414	2.2	1.0	1942	1734	1894	1737	6652	390		92	2759	2932	49053	1720	15	206	28	0.063
28	C	0.776	0.966	0.031	50	440	258	2.2	2.4	1933	1771	1880	1717	6228	390		91	1670	2848	49426	1610	14	207	30	0.062
29	C	0.783	1.027	0.031	50	440	184	3.6	1.6	2014	1814	1760	1614	7660	400		92	1202	2873	51081	1980	24	227	25	0.067
30	R	0.776	1.027	0.031	50	440	219	1.6	2.0	1946	1762	1905	1781	6644	420		93	1417	2848	49480	1718	10	220	29	0.060
Minimum		0.768	0.590	0.027	50	350	100	1.6	1.0	1902	1657	1735	1573	5562	300	18	90	670	2242	48212	1438	10	161	25	0.046
Maximum		0.936	1.037	0.031	50	510	417	4.8	4.8	2146	1987	1979	1808	7874	420	34	93	2827	3666	53710	2036	33	227	34	0.079
Average		0.812	0.885	0.031	50	404	264	3.2	2.9	1996	1783	1855	1693	6992	336	26	91	1770	2737	50433	1776	21	181	28	0.059

	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L
1	8.1	7.0	7.1	6.9	6.8	6.9	6.9	320	120	120	120	30	0.17	0.05	0.68	1.78
2	8.1	6.9	7.1	6.9	6.9	6.8	6.9	320	120	120	120	60	0.08	0.15	0.50	1.80
3	8.0	7.1	7.1	6.9	6.9	6.9	6.9	340	120	120	120	62	0.05	0.08	0.59	1.31
4	8.1		7.1													
5	8.0		7.0													
6	8.2	7.0	7.2	6.9	6.8	6.9	6.9	360	140	160	140	62	0.34	0.21	0.48	1.52
7	7.6	7.0	7.2	6.9	6.8	6.9	6.8	240	140	140	120	36	0.10	0.58	0.53	1.51
8	7.5	7.0	7.0	6.8	6.8	6.9	6.8	260	120	120	100	40	0.14	0.34	0.60	1.70
9	7.8	6.9	7.0	6.8	6.7	6.9	6.8	300	120	120	100	54	0.11	0.61	0.57	1.67
10	8.1		7.0													
11	8.0		7.0													
12	7.9		7.0													
13	8.0	7.0	7.1	6.9	6.9	6.9	6.9	300	120	100	100	76	0.03	0.05	0.37	1.44
14	7.9	7.0	7.1	6.9	6.9	6.9	6.9	300	120	120	120	58	0.18	0.16	0.52	1.75
15	8.1	7.0	7.0	6.9	6.8	6.8	6.9	300	120	120	100	60	0.25	0.47	0.39	1.71
16	8.1	7.0	7.0	6.9	6.9	6.9	6.9	300	100	120	100	64	0.22	0.56	0.63	1.66
17	7.6	7.0	7.0	6.9	6.8	6.8	7.0	280	120	120	100	46	0.21	0.52	0.55	1.61
18	8.0		7.0													
19	8.4		7.1													
20	7.8	7.0	7.0	7.0	6.8	6.9	6.9	300	120	120	100	64	0.08	0.28	0.77	2.08
21	7.4	7.0	7.0	6.9	6.8	6.8	7.0	240	120	120	100	36	0.00	0.00	0.23	1.69
22	7.5	7.0	7.0	6.9	6.8	6.8	6.9	260	120	120	100	42	0.02	0.12	0.53	2.00
23	7.9		7.1													
24	7.9		7.1													
25	8.3		7.1													
26	7.5		7.1													
27	8.5	7.0	7.1	6.9	6.9	6.9	6.9	380	120	120	100	82	0.15	0.40	0.17	1.98
28	8.3	7.0	7.1	6.9	6.8	6.9	6.9	320	120	120	120	66	0.43	0.80	0.05	1.60
29	7.5	7.0	7.1	6.9	6.8	6.9	6.9	280	120	120	120	44	0.05	0.52	0.04	1.72
30	7.5	7.0	7.0	6.9	6.8	6.9	6.9	260	120	120	120		0.30	0.04	0.82	2.69
Minimum	7.4	6.9	7.0	6.8	6.7	6.8	6.8	240	100	100	100	30	0.00	0.00	0.04	1.3
Maximum	8.5	7.1	7.2	7.0	6.9	6.9	7.0	380	140	160	140	82	0.43	0.80	0.82	2.7
Average	7.9	7.0	7.1	6.9	6.8	6.9	6.9	298	121	122	111	55	0.15	0.31	0.47	1.7

	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	6.7	13.0	10.2	4.8	0.9	2.9			0.9/0.9	4'/2'	4'/2'
2	4.8	11.2	9.0	5.5	0.8	2.3			0.9/0.9	2.5'/1.5'	2'/1'
3	10.5	9.8	8.7	6.1	0.8	2.6	2.8	5.8	0.9/0.9	3'/1.5'	3'/2'
4						2.6			0.9/0.9		
5						2.4			0.9/0.9		
6	6.3	10.8	7.4	4.2	1.1	2.3			0.9/0.9	3'/1'	4'/2'
7	10.6	12.8	9.0	4.3	1.0	2.3			0.9/0.9	2.5'/1'	3.5'/2'
8	8.3	14.8	10.9	5.8	0.6	1.9			0.9/0.9	2'/1'	3'/1.5
9	10.7	15.2	12.3	6.7	0.8	2.0	3.0	7.2	0.9/0.9	2'/1'	3'/1'
10						2.5			0.9/0.9		
11						1.6			0.9/0.9		
12						2.4			0.9/0.9		
13	11.6	12.6	12.5	4.0	1.3	2.0			0.9/0.9	2'/1.5'	2'/1.5'
14	12.2	12.7	10.7	6.4	1.4	1.7			0.9/0.9	2'/1.5'	3'/2'
15	7.3	13.6	10.8	6.7	1.5	1.5			0.8/0.8	1'/.5'	2'/1.5'
16	6.0	12.9	9.7	6.2	1.5	1.8			0.8/0.8	1'/.5'	2'/.5'
17	4.8	11.9	8.8	6.2	1.2	1.8	3.2	0.0	0.8/0.8	1'/.5'	1.5'/.5'
18						1.6			0.8/0.8		
19						1.4			0.8/0.8		
20	2.2	9.6	6.8	4.4	1.1	1.6			0.8/0.8	2'/1'	2'/1'
21	3.1	10.8	7.2	5.1	1.4	1.4			0.8/0.8	1.5'/.5	1'/.5
22	2.1	9.4	5.7	3.2	1.0	1.4	2.4	5.6	0.9/0.7	2'/1'	2'/1.5'
23						1.1			0.9/0.7		
24						0.9			0.9/0.7		
25						0.9			0.9/0.7		
26						1.0			0.9/0.7		
27	8.1	12.4	10.3	6.3	0.7	0.9			0.9/0.9	4'/1'	5'/2.5
28	7.4	12.0	9.7	6.0	0.9	1.0			0.9/0.9	3.5'/1'	4.5'/2.5'
29	7.1	11.5	9.9	6.0	0.7	0.9			0.9/0.9	3'/1'	5'/2.5'
30	7.9	14.4	10.1	5.7	0.8	1.1			0.9/0.9	3'/1'	4'/2'
Minimum	2.1	9.40	5.7	3.2	0.6	0.9	2.4	0.0			
Maximum	12.2	15.20	12.5	6.7	1.5	2.9	3.2	7.2			
Average	7.2	12.18	9.5	5.5	1.0	1.7	2.9	4.7			

Month	December	2023		McKinleyville WWMF

	Weather	Influent Flow MG	Effluent Flow MG	WAS Flow MG	% of Inf. RAS Flow	Influent BOD mg/L	Influent TSS mg/L	Sec.Eff TSS mg/L	FE TSS mg/l	AB1 MLSS mg/L	AB2 MLSS mg/L	Combined MLSS mg/L	MLVSS mg/L	RAS TSS mg/L	30 Min Settleable Test	Settleable Solids Volume
1	R	0.793	1.018	0.031	50	370	377	3.0	1.6	1942	1938	1894	1745	6946	400	30
2	R	1.020	0.929	0.031	50	370										
3	O	1.107	0.900	0.031	50	370										
4	R	0.950	0.977	0.031	50	370	299	3.8	2.4	2037	2099	1972	1823	5586	470	
5	O	0.897	0.980	0.031	50	370	196	3.4	1.6	1995	2109	1930	1782	7438	440	
6	R	0.979	1.420	0.031	50	370	278	2.8	2.2	1997	1965	1949	1794	7150	430	
7	R	1.034	1.435	0.031	50	370	279	3.0	2.8	1800	1962	1938	1768	6818	430	
8	C	0.950	1.519	0.031	50	270	288	2.0	3.6	1846	1888	1872	1707	6576	420	18
9	C	0.928	1.385	0.031	50	270										
10	C	0.955	1.313	0.031	50	270										
11	C	0.882	1.344	0.031	50	270	375	2.4	1.8	1884	1940	1892	1754	7490	400	
12	C	0.868	1.261	0.031	50	270	240	2.0	1.8	1915	2000	1900	1770	7796	450	
13	C	0.848	1.341	0.031	50	270	348	2.0	2.4	1934	1970	1956	1800	7226	440	
14	O	0.834	1.209	0.031	50	270	314	0.6	1.2	2052	1787	1896	1737	6550	400	
15	C	0.834	1.291	0.031	50	360	279	1.4	2.2	1828	1924	1857	1704	6804	420	22
16	C	0.849	1.186	0.031	50	360										
17	R	0.923	1.211	0.029	50	360										
18	R	0.927	1.292	0.029	50	360	277	2.0	1.6	1782	1869	1911	1769	6546	460	
19	R	1.088	1.359	0.029	50	360	122	2.2	1.2	1719	1862	1859	1728	6634	460	
20	O	1.101	1.407	0.029	50	360	226	2.6	1.0	1774	1868	1875	1725	6722	440	
21	C	1.007	1.424	0.029	50	360	178	2.2	2.8	1781	1897	1817	1653	6598	460	
22	O	0.987	1.332	0.029	50	300	314	3.0	2.0	1840	1897	1888	1783	6496	460	20
23	O	0.963	1.309	0.029	50	300										
24	O	0.951	1.230	0.029	50	300										
25	O	0.885	1.265	0.029	50	300										
26	C	0.890	1.193	0.029	50	300										
27	R	0.906	1.228	0.029	50	300	212	5.2	4.0	2000	2054	1938	1807	7382	460	
28	O	0.887	1.185	0.029	50	300	202	4.6	2.8	2051	2033	1974	1805	7444	470	
29	R	0.902	1.219	0.029	50	420	285	2.2	5.0	1969	2091	1904	1756	5574	430	25
30	R	1.033	1.281	0.029	50	420										
31	O	1.000	1.312	0.029	50	420										
Minimum		0.793	0.900	0.029	50	270	122	0.6	1.0	1719	1787	1817	1653	5574	400	18
Maximum		1.107	1.519	0.031	50	420	377	5.2	5.0	2052	2109	1974	1823	7796	470	30
Average		0.941	1.250	0.030	50	334	268	2.7	2.3	1902	1955	1906	1758	6830	439	23

	% Volatile Solids	Lbs/day Inf TSS Added	Lbs/day BOD Added	Lbs/day under Aeration	Lbs/day Wasted	Lbs/Day Lost in Sec. Eff	SVI	MCRT in days	F/M	Influent pH	Sec. Eff pH	Final Eff pH	AB1 pH	AB2 pH	RAS pH	Combined MLSS pH
1	92	2493	2447	51775	1796	20	211	29	0.053	8.2	7.0	7.1	6.9	6.8	6.8	6.9
2			3148							8.4		7.0				
3			3416							7.9		7.0				
4	92	2369	2932	55191	1444	30	238	37	0.060	8.2	6.9	7.1	6.8	6.8	6.8	6.8
5	92	1466	2768	54764	1923	25	228	28	0.058	7.9	6.9	7.1	6.8	6.8	6.8	6.8
6	92	2270	3021	52869	1849	23	221	28	0.063	8.0	6.9	7.0	6.9	6.7	6.8	6.9
7	91	2406	3191	50200	1763	26	222	28	0.068	8.0	6.9	7.0	6.9	6.7	6.8	6.9
8	91	2282	2139	49826	1700	16	224	29	0.047	8.1	6.9	6.9	6.8	6.7	6.8	6.8
9			2090							7.5		7.0				
10			2150							7.7		6.9				
11	93	2758	1986	51027	1936	18	211	26	0.042	7.8	6.9	7.0	6.8	6.9	6.8	6.9
12	93	1737	1955	52242	2016	14	237	26	0.041	8.1	6.8	7.0	6.9	6.8	6.8	6.8
13	92	2461	1910	52095	1868	14	225	28	0.040	7.4	6.9	6.9	6.8	6.8	6.8	6.8
14	92	2184	1878	51228	1693	4	211	30	0.041	8.2	6.8	7.0	6.8	6.7	6.8	6.8
15	92	1941	2504	50067	1759	10	226	28	0.055	8.4	6.8	6.9	6.8	6.7	6.8	6.8
16			2549							8.4		7.1				
17			2771							8.2		7.0				
18	93	2142	2783	48719	1583	15	241	30	0.059	8.1	7.0	7.0	6.8	6.7	6.8	6.8
19	93	1107	3267	47785	1604	20	247	29	0.071	7.5	7.0	7.0	6.8	6.7	6.8	6.8
20	92	2075	3306	48599	1626	24	235	29	0.072	8.1	6.9	7.0	6.8	6.7	6.8	6.8
21	91	1495	3023	49079	1596	18	253	30	0.069	8.1	6.8	7.0	6.8	6.7	6.8	6.8
22	94	2585	2469	49867	1571	25	244	31	0.052	8.1	6.8	7.0	6.8	6.7	6.8	6.8
23			2409							7.4		7.0				
24			2379							8.3		7.0				
25			2214							7.4		7.0				
26			2227							7.8		7.1				
27	93	1602	2267	54097	1785	39	237	30	0.047	7.8	6.9	7.1	6.9	6.9	6.8	6.9
28	91	1494	2219	54497	1800	34	238	30	0.046	7.6	6.9	7.1	6.9	6.9	6.8	6.9
29	92	2144	3160	54177	1348	17	226	40	0.067	8.3	6.9	7.2	6.9	7.0	6.8	6.9
30			3618							7.3		7.1				
31			3503							7.5		7.2				
Minimum	91	1107	1878	47785	1348	4	211	26	0.040	7.3	6.8	6.9	6.8	6.7	6.8	6.8
Maximum	94	2758	3618	55191	2016	39	253	40	0.072	8.4	7.0	7.2	6.9	7.0	6.8	6.9
Average	92	2053	2635	51479	1719	21	230	30	0.055	7.9	6.9	7.0	6.8	6.8	6.8	6.8

	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L	ABI Ammonia mg/L	AB2 Ammonia mg/L	Sec Eff. Ammonia mg/L	Final Eff. Ammonia mg/L	AB1 Nitrates mg/L	AB2 Nitrates mg/L	Sec. Eff Nitrates mg/L	Final Eff. Nitrates mg/L	Sec. Eff NTU	Final Eff. NTU	Sec. Eff BOD	Final Eff. BOD	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	360	120	120	100	70	0.45	0.00	0.11	1.68	7.2	15.1	10.4	6.2	0.9	0.9	2.4	5.8	0.9/0.9	3'/1'	5'/3'
2															0.9			0.9/0.9		
3															1.2			0.9/0.9		
4	300	100	100	100	62	0.63	0.03	3.25	3.62	15.3	18.3	14.3	7.5	1.3	1.3			0.9/0.9	3'/1.5'	4'/2'
5	260	100	100	100	50	0.02	0.02	0.42	2.46	12.7	15.9	13.7	7.5	1.0	0.9			0.9/0.9	3'/1.5'	4'/2'
6	260	100	100	80	46	0.13	0.04	0.41	2.42	5.0	15.1	10.6	6.9	1.1	1.1			0.9/0.9	3'/1.5'	4'/3'
7	240	100	100	100	50	0.09	0.02	0.39	1.76	5.1	14.3	9.3	6.8	1.8	1.1			0.9/0.9	2.5'/1.5'	3'/2'
8	240	100	100	80	48	0.20	0.03	0.56	1.88	5.2	13.2	8.8	5.2	0.7	1.0	0.0	2.0	0.9/0.9	3.5'/1.5'	4'/2'
9															1.3			0.9/0.9		
10															1.0			0.9/0.9		
11	280	120	100	100	62	0.00	0.02	0.54	1.54	11.4	13.0	12.0	8.2	0.8	0.9			0.9/0.9	4'/2'	5'/3'
12	300	100	100	100	54	0.00	0.02	0.75	2.36	10.8	14.9	12.8	7.3	0.9	0.9			0.9/0.9	4'/2'	3.5'/2'
13	220	100	100	80	38	0.00	0.00	1.08	2.12	10.4	13.2	12.0	7.1	0.5	1.0			0.9/0.9	4'/2'	5'/3'
14	280	100	100	80	52	0.14	0.02	0.70	2.72	7.6	14.4	11.7	6.1	0.5	0.9			0.9/0.9	2'/1'	3'/2'
15	340	100	100	80	72	0.00	0.01	0.84	2.64	7.0	13.4	10.9	6.2	1.1	0.8	2.9	2.0	0.9/0.9	5'/3'	4.5'/3'
16															0.9			0.9/0.9		
17															0.9			0.9/0.9		
18	280	100	100	80	48	0.00	0.04	0.89	2.15	6.6	13.3	9.5	2.9	1.2	1.0			0.9/0.9	4'/1.5'	5'/3'
19	200	100	100	100	28	0.04	0.00	0.60	1.99	7.0	12.8	9.1	6.4	1.1	0.9			0.9/0.8	3'/2'	3'/2'
20	300	100	100	100	46	0.00	0.00	0.58	1.82	7.8	12.2	8.9	6.6	1.7	1.0			0.9/0.8	4'/2'	5'/3'
21	320	100	100	100	48	0.07	0.01	0.73	2.19	7.4	12.0	8.6	6.8	0.7	1.2			0.9/0.8	4'/2'	4'/2'
22	260	100	100	100	50	0.02	0.02	0.78	1.81	5.7	15.9	9.5	5.4	0.7	1.4	2.3	3.4	0.9/0.8	5'/2'	4'/2'
23															1.4			0.9/0.8		
24															1.3			0.9/0.8		
25															1.3			0.9/0.8		
26															1.2			0.9/0.8		
27	260	100	120	120	50	0.00	0.00	0.20	1.23	7.8	8.9	8.2	5.0	1.2	1.3			0.9/0.8	4'/2'	3.5'/2'
28	240	100	100	100	34	0.00	0.00	0.07	0.94	7.8	8.8	8.5	5.7	0.5	1.5			0.9/0.8	3'/1.5'	3.5'/2.5'
29	340	100	100	100	58	0.00	0.00	1.84	2.90	6.6	7.8	7.1	4.8	1.0	2.2	4.5	5.0	0.9/0.8	4'/2.5'	5'/3'
30															1.8			0.9/0.8		
31															2.1			0.9/0.8		
Minimum	200	100	100	80	28	0.00	0.00	0.07	0.94	5.0	7.8	7.1	2.9	0.5	0.8	0.0	2.0			
Maximum	360	120	120	120	72	0.63	0.04	3.25	3.62	15.3	18.3	14.3	8.2	1.8	2.2	4.5	5.8			
Average	278	102	102	95	51	0.09	0.01	0.78	2.12	8.1	13.3	10.3	6.2	1.0	1.2	2.4	3.6			

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
SLUDGE and SOLIDS MONITORING/Feet 2023

	Biosolids Basin			Pond 2	
	CENTER	SOUTH	NORTH	North to South	East to West
1	3.0	5.0	4.0	0.50	0.50
2	4.0	5.0	4.0	0.50	0.50
3	4.0	5.0	4.0	0.50	0.50
4	4.0	5.0	4.0	0.50	0.50
5	4.0	5.0	4.5	0.50	0.50
6	4.0	5.0	4.5	0.50	0.50
7	5.0	4.0	5.0	0.50	0.75
8	5.0	4.0	5.0	0.50	0.75
9	5.0	4.0	5.0	0.50	0.75
10	5.0	4.0	4.0	0.50	0.75
11	5.0	4.0	5.0	0.50	0.75
12	5.0	4.0	5.0	0.75	0.75
13	5.0	3.0	5.0	0.75	0.25
14	5.0	3.0	5.0	0.75	1.00
15	5.0	2.0	5.0	0.75	1.00
16	4.0	2.0	5.0	0.75	1.00
17	4.0	2.0	5.0	0.75	1.00
18	4.0	2.0	5.0	0.75	1.00
19	4.0	3.0	5.0	0.75	1.00
20	3.0	3.0	5.0	0.75	0.75
21	3.0	3.0	5.0	0.75	0.75
22	3.0	2.0	4.0	1.00	0.75
23	3.0	2.0	4.0	1.00	0.75
24	3.0	2.0	4.0	1.00	0.75
25	3.0	2.0	4.0	1.00	0.75
AVERAGE	4.1	3.4	4.6	0.68	0.73
MAXIMUM	5.0	5.0	5.0	1.00	1.00
MINIMUM	3.0	2.0	4.0	0.50	0.25

ALL

AVERAGE	ALL	3.6		AVERAGE	ALL	0.7
MAXIMUM	ALL	5.0		MAXIMUM	ALL	1.0
MINIMUM	ALL	3.0		MINIMUM	ALL	0.3

Biosolids Basin Sludge to date: 5.80 Million Gallons (9.2' depth)
Max Solids Depth=9' (5.68 Million Gallons) .631 Million Gallons of sludge/ft

TOTAL 2.27 MG

CAPACITY Biosolids Basin= 5.80 Million Gallons

REMAINING Capacity in Biosolids Basin= 3.53 Million Gallons

Comments: Synagro was contracted to start pumping solids in October 2021.

TOTAL REMAINING SLUDGE CAPACITY (3.53) Million Gallons (5.6 feet depth') Excluding the 3' water cap.

Annual Recycling Summary Report

Exhibit C lists disposal site locations, daily volumes, monthly totals and Annual totals. Attached to this report you will find the Annual Recycle Water Production and Use report along with a sample of the daily Irrigation Site Observation Form.

The Recycled Water Production Reports lists volumes of water for each discharge point in acre-feet, total area of application in acres and total nitrogen application rate in lb/acre-month as per the NPDES requirements.

The daily Irrigation Site Observation Form is a template of what staff uses each day that recycled water was discharged at points 003, 004, 005, and 006. During daily inspections, each site is monitored for ponding, flow rate and pipe repairs. Irrigation pipe and flood cells are moved daily keeping in mind that all set-back requirements are met. Best management practices are used to prevent run-off or ponding. If ponding is present, usually cause by pipe disconnecting, it is noted on the daily inspection form and irrigation is shut down to that location until ponding percolates into the ground.

Wells were monitored weekly along with Quarterly samples. (Exhibit H)

The Fischer Ranch is leased to a hay production company that cuts the fodder crop, bails it, and removes it from the property. In 2021 the company removed 3100 tons of hay and 1950 tons of corn from Discharge Point 003 and 004.

Recycled Water Production and Use

Recycled water quality characteristics and precipitation data shall be used to ascertain nitrogen loading rates at each recycled water use site. The following information shall be reported for each use site or use site type.

Parameter	Units	Sample Type	Frequency Sample	Frequency Reporting
Volume of Recycled Water	acre-feet	Meter	Monthly	Annually
Total Area of Application	acres	Observation	Monthly	Annually
Total Nitrogen Application Rate	lbs/acre-month	Calculation	Monthly	Annually

Recycle Water Production and Use		**MAY 2023**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	2.1	36	1.104	51.298	1.425
Fischer Lower	003	2.1	45	0.883	6.530	0.145
Pialorsi	006	2.1	88	0.451	3.947	0.045
Hiller	005	2.1	25	1.589	0.000	0.000

Recycle Water Production and Use		**JUNE 2023**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	1.5	36	1.785	59.256	1.646
Fischer Lower	003	1.5	45	0.139	5.774	0.128
Pialorsi	006	1.5	88	0.043	3.473	0.039
Hiller	005	1.5	25	0.000	0.000	0.000

Recycle Water Production and Use		**JULY 2023**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	2.9	36	1.691	108.552	3.015
Fischer Lower	003	2.9	45	0.006	0.492	0.011
Pialorsi	006	2.9	88	0.006	0.876	0.010
Hiller	005	2.9	25	0.000	0.000	0.000

Recycle Water Production and Use		AUGUST 2023				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	1.5	36	1.814	60.221	1.673
Fischer Lower	003	1.5	45	0.208	8.627	0.192
Pialorsi	006	1.5	88	0.050	4.064	0.046
Hiller	005	1.5	25	0.000	0.000	0.000

Recycle Water Production and Use		SEPTEMBER 2023				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	3.3	36	1.356	99.061	2.752
Fischer Lower	003	3.3	45	0.112	10.249	0.228
Pialorsi	006	3.3	88	0.042	7.497	0.085
Hiller	005	3.3	25	0.000	0.000	0.000

Recycle Water Production and Use		OCTOBER 2023				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	2.2	36	1.628	79.262	2.202
Fischer Lower	003	2.2	45	0.100	6.098	0.136
Pialorsi	006	2.2	88	0.069	8.157	0.093
Hiller	005	2.2	25	0.000	0.000	0.000

Recycle Water Production and Use		November 2023				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	6.4	36	1.983	280.900	7.803
Fischer Lower	003	6.4	45	0.000	0.000	0.000
Pialorsi	006	6.4	88	0.076	26.205	0.298
Hiller	005	6.4	25	0.000	0.000	0.000

Recycle Water Production and Use		December 2023				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	7.4	36	0.415	68.041	1.890
Fischer Lower	003	7.4	45	0.000	0.000	0.000
Pialorsi	006	7.4	88	0.010	3.826	0.043
Hiller	005	7.4	25	0.000	0.000	0.000

McKINLEYVILLE COMMUNITY SERVICES DISTRICT

W.W.M.F.

Daily Observations

Perk Pond and Reclamation Sites

DATE:	TIME:	INSPECTION BY:
ODORS: Strength and Type		
1. Hydrogen Sulfide	2. Septic	3. Pond-like "not objectionable
Condition of Roads and Levees:		
Maintenance work to do:		

Perk Pond Observations

Pond	Depth	Color	D.O.	Temp.	pH	CL_2 Res.
North Pond						
South Pond						

Color Guide: DG= Dark Green G= Green LG= Light Green YB=Yellow Brown P=Pink

Remarks: (i.e. seepage, fence conditions, signs, controls structures)

Irrigation Observations

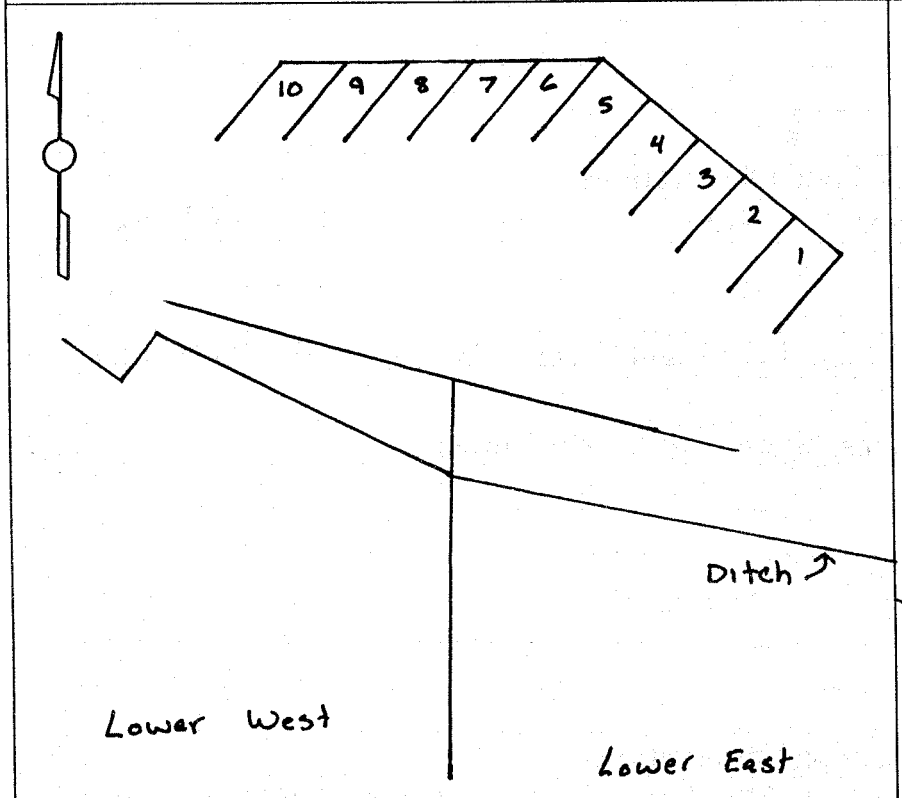
	Fischer Rd.	Hiller East	Flood Cells	Pialorsi Ranch
Irrigation Location				
CL_2 Res.				
Overspray (y/n)				
Ponding (y/n)				
Run-off (y/n)				
Location of cows				
Weather Conditions				
Wind dir. & speed				
Complaints (y/n)				
Compliance (y/n)				
Setback (y/n)				

McKINLEYVILLE C.S.D.
IRRIGATION FIELD LOCATION AND CONDITION REPORT

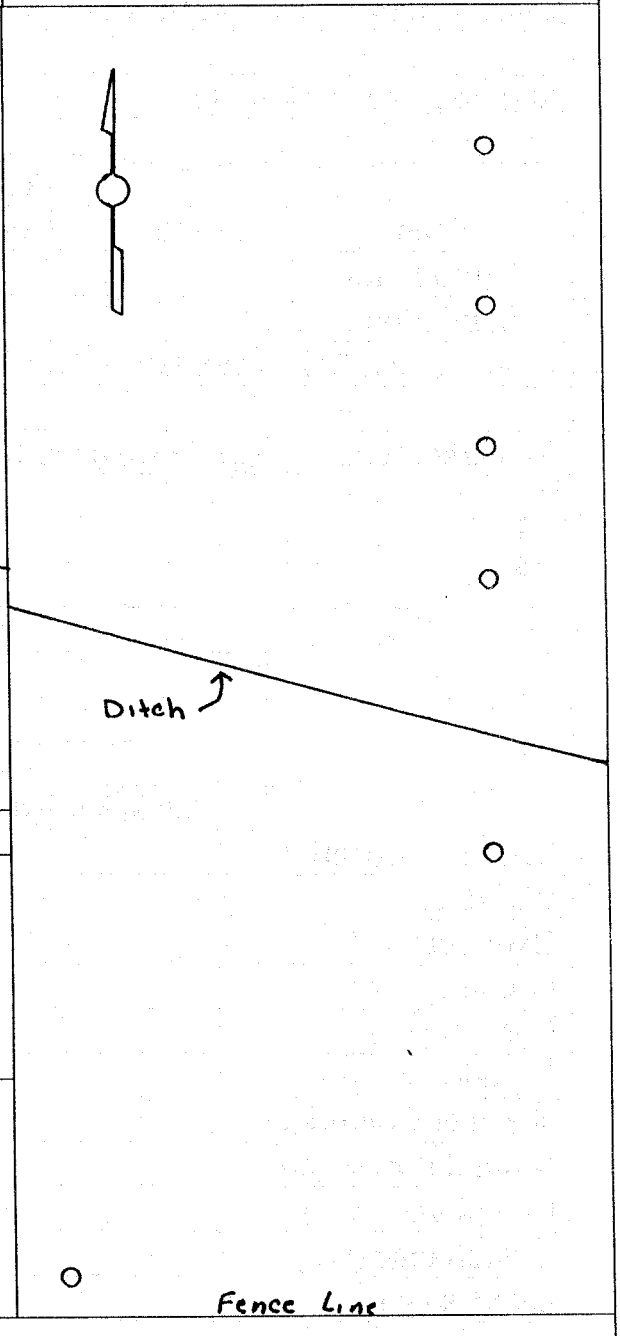
RECLAMATION SITE OBSERVATIONS AND REMARKS

IRRIGATION SITE DIAGRAMS

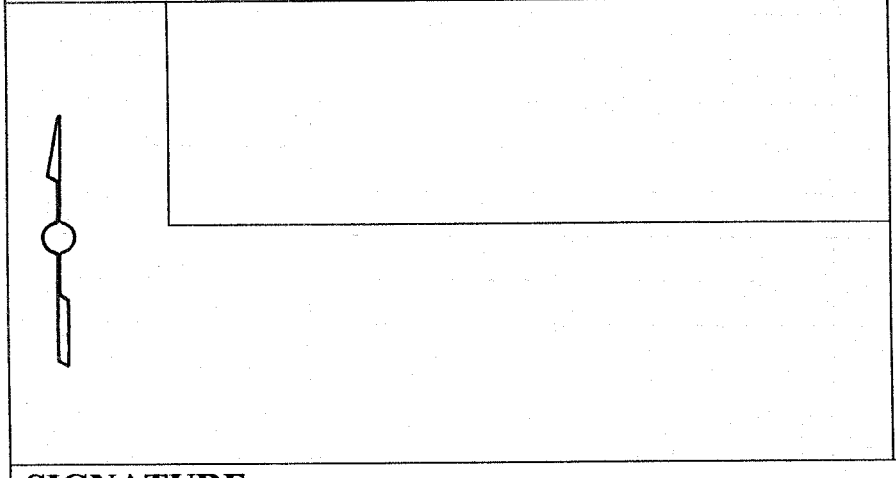
FISCHER ROAD RANCH



HILLER EAST



PIALORSI RANCH



SIGNATURE

EXHIBIT N

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

January

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	58.3	OK	NONE	OK	SM
2	4°	58.3	OK	NONE	OK	SM
3	4°	58.3	OK	None	OK	KS
4	4°	57.9	OK	None	OK	KS
5	4°	58.7	OK	Cleaned PH Probe. Changed Buffers	Topped OK off fluids	KS
6	4°	59.0	OK	None	OK	KS
7	4°	58.5	OK	NONE	OK	CJ
8	3°	58.6	OK	NONE	OK	CJ
9	4°	58.8	OK	None	OK	KS
10	4°	58.8	OK	None	OK	KS
11	4°	58.5	OK	None	OK	KS
12	4°	58.5	OK	None	2 pt Cal w/ 0.0 & 4.3 mg/L Topped off fluids	KS
13	4°	58.5	OK	None	OK	KS
14	4°	58.4	OK	None	OK	KS
15	4°	58.7	OK	None	OK	KS
16	4°	58.8	OK	None	OK	KS
17	4°	59.0	OK	NONE	OK	SM
18	4°	58.8	OK	NONE	OK	SM
19	4°	58.7	OK	NONE	INSPECTED	SM
20	4°	58.7	OK	NONE	OK	SM
21	4°	58.6	OK	NONE	OK	DS
22	4°	58.4	OK	NONE	OK	DS
23	4°	58.5	OK	NONE	OK	SM
24	4°	58.1	OK	NONE	OK	SM
25	4°	58.4	OK	NONE	OK	SM
26	4°	58.3	OK	NONE	CAL/INSPECTION	SM
27	4°	58.1	OK	NONE	OK	SM
28	4°	58.2	OK	NONE	OK	SM
29	4°	58.0	OK	NONE	OK	DS
30	4°	58.1	OK	NONE	OK	DS
31	4°	58.0	OK	NONE	OK	DS

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

February

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	57.9	OK	OK	OK	DS
2	4°	58.1	OK	OK	INSPECTED - OK	DS
3	4°	57.9	OK	OK	OK	DS
4	4°	57.8	OK	OK	OK	JJ
5	4°	57.8	OK	OK	OK	JJ
6	4°	57.7	OK	OK	OK	DS
7	3°	57.2	OK	ADJ FRIDGE TEMP	OK	DS
8	4°	57.6	OK	OK	OK	DS
9	4°	58.0	OK	OK	CAL, NEW KI, INSPECT. OK	DS
10	4°	59.9	OK	CHANGE BUFFERS CLEANED PROBE	OK	DS
11	4°	59.4	OK	OK	OK	SM
12	4°	59.4	OK	OK	OK	SM
13	4°	59.5	OK	OK	OK	JJ
14	4°	59.4	OK	OK	OK	JJ
15	4°	59.5	OK	OK	OK	JJ
16	4°	59.4	OK	OK	INSPECT - OK	JJ
17	4°	59.3	OK	OK	OK	DS
18	3°	58.9	OK	OK	OK	CJ
19	4°	58.9	OK	OK	OK	CJ
20	4°	58.9	OK	OK	OK	CJ
21	4°	59.1	OK	OK	OK	JJ
22	4°	59.2	OK	OK	OK	JJ
23	4°	59.1	OK	OK	Caled / Inspected	JJ
24	4°	59.2	OK	OK	OK	JJ
25	4°	58.9	OK	OK	OK	KS
26	4°	59.6	OK	OK		KS
27	4°	58.4	OK	OK	OK	CJ
28	4°	58.0	OK	OK	OK	CJ
29						

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

March

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	58.3	OK	OK	OK	CJ
2	4°	57.8	OK	OK	INSPECTED – OK	CJ
3	4°	58.8	OK	OK	OK	CJ
4	4°	58.7	OK	OK	OK	DS
5	4°	56.7	OK	OK	OK	DS
6	3°	59.2	OK	OK	OK	CJ
7	4°	59.4	OK	OK	OK	DS
8	4°	58.7	OK	OK	OK	CJ
9	4°	58.7	OK	OK	CAL @ 0.00/3.5, INSPECT	CJ
10	4°	59.0	OK	OK	OK	DS
11	3°	59.1	OK	OK	OK	KS
12	4°	59.1	OK	OK	OK	KS
13	3°	58.8	OK	OK	OK	KS
14	4°	59.0	OK	OK	OK	DS
15	4°	58.9	OK	OK	OK	KS
16	4°	58.9	OK	OK	INSPECTED-OK	DS
17	3°	58.7	OK	OK	OK	KS
18	4°	58.8	OK	OK	OK	JJ.
19	4°	58.8	OK	OK	OK	JJ
20	4°	58.7	OK	OK	OK	KS
21	4°	58.9	OK	OK	OK	KS
22	3°	58.5	OK	OK	OK	KS
23	4°	58.60	OK	Changed Buffers Cleaned PH Probe	2pt cal. 0.00 & 4.00 OK	KS
24	4°	59.4	OK	OK	OK	KS
25	4°	59.1	OK	OK	OK	CJ
26	4°	58.4	OK	OK	OK	CJ
27	4°	59.1	OK	OK	OK	SM
28	4°	59.3	OK	OK	OK	SM
29	4°	59.1	OK	OK	OK	SM
30	4°	59.1	OK	OK	OK	SM
31	4°	59.1	OK	OK	OK	SM

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

April

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	58.7	OK	OK	OK	SM
2	4°	58.8	OK	OK	OK	SM
3	4°	58.8	OK	OK	OK	SM
4	4°	58.8	OK	OK	OK	SM
5	4°	58.6	OK	OK	OK	SM
6	4°	58.4	OK	OK	INSPECTED/CALIBRATED	SM
7	4°	58.2	OK	OK	OK	SM
8	4°	58.0	OK	OK	OK	KS
9	4°	58.1	OK	OK	OK	KS
10	4°	59.1	OK	CHANGE BUFFERS - OK	OK	DS
11	4°	58.9	OK	OK	OK	DS
12	4°	59.0	OK	OK	OK	DS
13	4°	58.9	OK	OK	INSPECTION - OK	DS
14	4°	59.1	OK	OK	OK	DS
15	4°	59.0	OK	OK	OK	DS
16	4°	58.9	OK	OK	OK	DS
17	4°	58.9	OK	OK	OK	DS
18	4°	59.0	OK	OK	OK	DS
19	4°	58.9	OK	OK	OK	DS
20	4°	58.8	OK	OK	CAL/NEW KI/ACETATE	DS
21	4°	58.5	OK	CHANGE BUFFERS, CLEAN PROBES	OK	CJ
22	4°	58.5	OK	OK	OK	CJ
23	4°	58.4	OK	OK	OK	CJ
24	4°	58.8	OK	OK	OK	JJ
25	4°	58.7	OK	OK	OK	JJ
26	4°	58.6	OK	OK	OK	JJ
27	4°	58.6	OK	OK	OK	JJ
28	4°	58.5	OK	OK	OK	JJ
29	4°	58.5	OK	OK	OK	JJ
30	4°	58.5	OK	OK	OK	JJ

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

May

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	58.5	ok	ok	ok	JJ
2	4°	58.5	ok	ok	ok	DS
3	4°	58.5	ok	ok	ok	JJ
4	4°	58.4	ok	ok	CALIBRATE + INSPECT	DS
5	4°	58.3	ok	ok	ok	JJ
6	4°	57.8	ok	ok	ok	CJ
7	4°	58.2	ok	ok	ok	CJ
8	4°	58.2	ok	ok	ok	DS
9	4°	58.2	ok	ok	ok	DS
10	4°	58.0	ok	ok	ok	DS
11	4°	57.8	ok	ok	INSPECT, TOP OFF BUFFERS	DS
12	4°	57.9	ok	ok	ok	DS
13	4°	57.4	ok	ok	ok	JJ
14	4°	57.8	ok	ok	ok	JJ
15	4°	57.7	ok	ok	ok	DS
16	4°	57.7	ok	ok	ok	DS
17	4°	57.5	ok	ok	ok	DS
18	4°	57.6	ok	ok	CAL/INSPECT-OK	DS
19	4°	57.6	ok	ok	ok	DS
20	4°	57.5	ok	ok	ok	DS
21	4°	57.7	ok	ok	ok	DS
22	4°	57.5	ok	ok	ok	DS
23	4°	57.2	ok	CHANGE BUFFERS, CLEAN PROBE	ok	DS
24	4°	58.5	ok	ok	ok	DS
25	4°	58.4	ok	ok	CAL + INSPECT	DS
26	4°	58.4	ok	ok	ok	JJ
27	4°	58.3	ok	ok	ok	SM
28	4°	58.4	ok	ok	ok	JJ
29	4°	58.3	ok	ok	ok	JJ
30	4°	58.3	ok	ok	ok	KS
31	4°	58.2	ok	Swapped D.O. Tip	ok	KS

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

June

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	58.2	ok	ok	Topped off R1 & Buffer cleaned Y Strainer & intake	KS
2	4°	58.1	OK	OK	OK	KS
3	4°	58.1	oK	oK	oK	SM
4	4°	58.0	oK	oK	oK	SM
5	4°	58.0	OK	OK	OK	KS
6	4°	57.9	OK	OK	OK-DS	KS
7	4°	57.9	OK	OK	OK	KS
8	4°	57.9	OK	OK	CAL@2.5/0.00, INSPECTED	KS
9	4°	57.7	OK	OK	OK	KS
10	4°	58.0	oK	oK	oK	JJ
11	4°	57.9	oK	oK	oK	JJ
12	4°	57.9	OK	OK	OK	CJ
13	4°	57.6	OK	OK	OK	CJ
14	4°	57.5	OK	OK	OK	CJ
15	4°	57.8	ok	ok	INSPECTION-ok	DS
16	4°	57.7	oK	oK	oK	SM
17	4°	57.7	oK	oK	oK	SM
18	4°	57.7	oK	oK	oK	SM
19	4°	57.7	oK	oK	oK	SM
20	4°	57.6	oK	oK	oK	SM
21	4°	57.6	oK	oK	oK	SM
22	4°	57.5	oK	oK	CAL/INSPECT	SM
23	4°	57.4	oK	oK	oK	SM
24	4°	57.2	OK	OK	OK	KS
25	4°	57.4	OK	OK	OK	KS
26	4°	57.3	oK	oK	oK	SM
27	4°	57.4	oK	oK	oK	SM
28	4°	57.3	oK	oK	oK	SM
29	4°	57.2	oK	oK	INSPECTION-oK	SM
30	4°	57.3	oK	OK	OK	DS

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

July

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	5°	56.7	ok	ok	ok	CJ
2	4°	56.9	ok	ok	ok	CJ
3	4°	57.1	ok	ok	ok	JJ
4	5°	56.6	ok	ok	ok	CJ
5	4	57.3	ok	ok	ok	JJ
6	4	57.0	ok	ok	Caled w 4.9mg/L	JJ
7	4	56.8	ok	ok	ok	JJ
8	4°	56.8	Ok	Ok	ok	DS
9	4°	56.8	ok	ok	ok	SM
10	4°	56.9	Ok	ok· CHANGE BUFFERS	ok	DS
11	4°	56.8	ok	ok	ok	DS
12	4°	57.6	ok	Ok	ok	DS
13	4°	57.7	ok	ok	INSPECT - OK	DS
14	4°	57.7	ok	ok	ok	DS
15	4°	57.3	Ok	Ok	ok	DS
16	5°	57.2	Ok	Ok	Ok	DS
17	4°	58.0	ok	ok	ok	DS
18	4°	57.7	ok	ok	ok	DS
19	4°	58.0	ok	ok	ok	DS
20	5°	57.7	ok	CLEAN PROBE · OK	CAL/INSPECT @ 3.1mg/L	DS
21	5°	57.8	ok	ok	ok	JJ
22	4°	57.9	ok	ok	ok	JJ
23	5°	57.7	ok	ok	ok	JJ
24	4°	57.7	ok	ok	ok	DS
25	4°	57.6	ok	ok	ok	DS
26	4°	57.5	ok	ok	ok	DS
27	4°	58.6	ok	CHANGED BUFFERS · OK	INSPECT ok	DS
28	4°	58.4	ok	ok	ok	KS
29	4°	58.5	ok	ok	ok	SM
30	4°	58.4	ok	ok	ok	SM
31	4°	58.5	ok	ok	ok	SM

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

August

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	58.5	OK	OK	OK	DS
2	4°	58.2	OK	OK	OK	DS
3	4°	58.3	OK	OK	INSPECT-OK	DS
4	4°	58.0	OK	OK	OK	DS
5	4°	58.1	OK	OK	OK	CJ
6	4°	58.1	OK	OK	OK	CJ
7	4°	58.2	OK	OK	OK	CJ
8	5°	58.0	OK	OK	OK	CJ
9	5°	57.9	OK	OK	OK	CJ
10	4°	57.9	OK	OK	CAL@3.1/10.00 - OK	DS
11	4°	57.9	OK	OK	OK	CJ
12	6°	58.0	OK	Adj. Fridge Temp.	OK	KS
13	5°	57.9	OK	OK	OK	KS
14	4°	58.0	OK	OK	OK	KS
15	4°	57.8	OK	OK	OK	DS
16	4°	57.7	OK	OK	OK	DS
17	5°	57.6	OK	OK	OK	KS
18	4°	57.8	OK	OK	OK	SM
19	4°	58.0	OK	OK	OK	SM
20	4°	58.0	OK	OK	OK	JJ
21	3°	57.8	OK	OK	OK	DS
22	4°	57.8	OK	OK	OK	JJ
23	4°	57.7	OK	OK	OK	SM
24	4°	57.4	OK	OK	CAL@2.5/0.00 - OK	DS
25	4°	57.7	OK	OK	OK	JJ
26	4°	57.6	OK	OK	OK	DS
27	4°	57.7	OK	OK	OK	DS
28	4°	57.6	OK	OK	OK	DS
29	4°	57.3	OK	OK	OK	DS
30	4°	57.1	OK	OK	OK	DS
31	4	57.4	OK	OK	INSPECTED - OK	DS

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

September

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	57.4	OK	CHANGE BUFFERS	OK	DS
2	4°	58.3	OK	OK	OK	SM
3	4°	58.2	OK	OK	OK	SM
4	4°	57.2	OK	OK	OK	SM
5	4°	58.0	OK	OK	OK	DS
6	4°	58.1	OK	OK	OK	DS
7	4°	57.9	OK	OK	CAL/INSPECT - OK	DS
8	4°	58.3	OK	OK	OK	DS
9	NO DISCHARGE			CCB WASH →		
10				→		
11	4°	57.6	OK	OK	OK	DS
12	4°	57.9	OK	OK	OK	JJ
13	4°	57.8	OK	OK	OK	SM
14	4°	57.8	OK	OK	CAL + INSPECT - OK	DS
15						
16	4°	57.4	OK	OK	OK	CJ
17	4°	57.6	OK	OK	OK	CJ
18	4°	57.6	OK	OK	OK	DS
19	4°	57.6	OK	OK	OK	SM
20	4°	56.9	OK	OK	OK	BM
21	4°	56.7	OK	OK	CAL OK	BM
22	4°	57.8	OK	OK	OK	SM
23	4°	57.5	OK	OK	OK	KS
24	4°	57.4	OK	OK	OK	KS
25	4°	57.3	OK	OK	OK	DS
26	4°	56.7	OK	OK	OK	DS
27	4	57.0	OK	NEW PH METER*	OK	DS
28	4°	56.8	OK	OK	INSPECT/NEW KI/ACETIC	DS
29	4°	56.8	OK	OK	OK	DS
30	4°	57.1	OK	OK	OK	DS

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

October

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	57.1	OK	OK	OK	DS
2	4°	56.9	OK	OK	OK	DS
3	4°	57.0	OK	OK	OK	DS
4	4°	57.0	OK	OK	OK	DS
5	4°	56.8	OK	OK	INSPECT+CAL-OK	DS
6	5°	57.7	OK	CHANGE BUFF. NEW DO	OK	DS
7	5°	57.6	OK	OK	OK	KS
8	4°	57.6	OK	OK	OK	KS
9	4°	57.5	OK	OK	OK	KS
10	4°	57.6	OK	OK	OK	JJ
11	4°	57.4	OK	OK	OK	JM
12	4°	57.4	OK	OK	OK	JM
13	4°	57.5	OK	OK	OK	JJ
14	4°	57.4	OK	OK	OK	JJ
15	4°	57.4	OK	OK	OK	JJ
16	4°	57.7	OK	OK	OK	SM
17	4°	57.2	OK	OK	OK	JM
18	4°	57.3	OK	OK	OK	DS
19	4°	57.1	OK	OK	OK	JM
20	4°	57.1	OK	OK	OK	CJ
21	4°	57.3	OK	OK	OK	SM
22	4°	57.2	OK	OK	OK	SM
23	4°	57.1	OK	OK	OK	CJ
24	4°	57.0	OK	OK	OK	KS
25	4°	56.9	OK	OK	OK	KS
26	4°	57.0	OK	OK	OK+Cal	JJ
27	4°	56.8	OK	OK	OK	JM
28	4°	56.8	OK	OK	OK	CJ
29	4°	56.8	OK	OK	OK	CJ
30	4°	56.7	OK	OK	OK	JM
31	4°	57.1	OK	OK	OK	SM

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

November

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	-56.7	OK	OK	OK	SM
2	4°	-56.7	OK	OK	OK	JM
3	4°	-56.7	OK	Changed pH Buffer/ Storage Solution	OK	JJ
4	4°	-57.5	OK	OK	OK	JM
5	4°	-57.3	OK	OK	OK	BM
6	4°	57.4	OK	OK	OK	KS
7	4°	57.4	OK	OK	OK	KS
8	4°	57.4	OK	OK	OK	SM
9	4°	57.5	OK	OK	OK	SM
10	4°	57.4	OK	OK	OK	BM
11	4°	55.8	OK	OK	OK	BM
12	4°	57.2	OK	OK	OK	BM
13	4°	57.2	OK	OK	OK	JJ
14	4°	57.3	OK	OK	OK	JJ
15	4°	57.0	OK	OK	OK	BM
16	4°	57.0	OK	OK	OK	BM
17	4°	57.2	OK	OK	OK	BM
18	4°	57.0	OK	OK	OFF (Newtility Testing)	KS
19	4°	57.0	OK	OK	" "	KS
20	4°	56.6	OK	OK	OK	BM
21	4°	56.8	OK	OK	OK	BM
22	4°	56.9	OK	OK	OK	BM
23	4°	56.8	OK	OK	OK	KS
24	3°	56.9	OK	OK	OK ON	JJ
25	3°	57.1	OK	OK	OK	JJ
26	3°	57.0	OK	OK	OK	JJ
27	2°	56.6	OK	Adjusted Fridge	OK	KS
28	4°	56.6	OK	OK	OK	KS
29	3°	56.6	OK	OK	OK	KS
30	4°	57.0	OK	OK	OK	SM

McKinleyville Community Services District

Refrigeration Temperature Monitoring

pH Meter (Hach sensION378/ Probe 51935-00)

DO Meter (Hach sensION378/ Probe 51935-00)

Micro 2000 Chlorine Analyzer

Log Book

December

Date	Fridge Temp	pH Meter Slope	DO Meter Cal	Remarks	Cl2 Analyzer(Cal Bi-weekly)	Operator
1	4°	56.5	OK	Replaced PH Buffers	OK	KS
2	4°	57.6	OK	OK	OK	SM
3	4°	57.5	OK	OK	OK	SM
4	4°	57.2	OK	OK	OK	JJ
5	4°	57.3	OK	OK	OK	JJ
6	4°	56.9	OK	OK	OK	JMA
7	4°	57.0	OK	OK	OK	DM
8	4°	57.0	OK	OK	OK	JMA
9	4°	57.0	OK	OK	OK	CJ
10	4°	56.9	OK	OK	OK	CJ
11	4°	57.0	OK	OK	OK	JJ
12	4°	56.8	OK	OK	OK	DS
13	4°	56.9	OK	OK	OK	DS
14	4°	56.8	OK	OK	OK	BM
15	4°	56.7	OK	OK	OK	DM
16	4°	56.7	OK	OK	OK	KS
17	4°	56.8	OK	OK	OK	KS
18	4°	57.0	OK	OK	OK	SM
19	4°	56.9	OK	OK	OK	SM
20	4°	57.0	OK	OK	OK	SM
21	4°	57.0	OK	OK	OK	SM
22	4°	56.6	OK	OK	OK	SM
23	4°	56.7	OK	OK	OK	DS
24	4°	56.5	OK	OK	OK	DS
25	3°	56.7	OK	OK - CHANGED BUFFERS	OK	DS
26	4°	56.9	OK	OK	OK	DS
27	4°	56.8	OK	OK	OK	DS
28	4°	56.6	OK	OK	OK	DS
29	4	56.4	OK	OK	OK	BM
30	4°	56.5	OK	OK	OK	KS
31	4°		OK	OK	OK	KS

2023 Industrial Discharge Activities

Summary of Compliance

In order to ensure compliance with our NPDES requirement to survey all Industrial Users, the District performed a survey of all non-residential users in 2019. During the District-wide on-site survey process, staff interviewed representatives of each facility concerning their use of the sanitary sewer system. Staff checked for floor drains and other potential sources of accidental discharge to the collection system, as well as chemical use and storage. Industrial users were inspected for processes or procedures that may potentially have an impact on the collection / treatment system and considered for Industrial Discharge Permits. Additionally, any user operating as a food service or other potential fat, oils and grease (FOG) generator was inspected for processes or procedures that could impact the District's collection / treatment system.

MCSD has instituted a requirement that all non-residential customers that sign up for service, whether a new customer or a change of ownership / responsible person, fill out a survey describing discharge quantity, type, and any processes and/or chemicals used in their enterprise. These surveys are reviewed and based upon information provided, inspections of the facilities are conducted.

All industrial users that were determined to require a permit were evaluated for potential for significant impact on the system. These permitted sites were inspected for compliance with individual permits.

Public outreach concerning proper sewer use was achieved through the District's survey for our non-residential user survey as well as an article that was published in the quarterly newsletter and on our website. Public outreach continues throughout the year using the District's Facebook page to post information to the customers.

General Prohibitions and Standards

Below are excerpts from our Rules and Regs. Currently this is the Districts Local Limits until review of the 2020 Local Limits is completed by the State Water Board. Once review is completed, the District will adopt new Local Limits.

Rule 24.09.01 (pg 66-67) spells out our current Local Limits

Rule 24.09.01. - the General Manager is authorized to establish Local Limits pursuant to 40 CFR 403.5(c). The following pollutant limits are established to protect against Pass Through and Interference. No person shall discharge wastewater containing in excess of the following concentrations:

POLLUTANT	DAILY MAXIMUM LIMIT (mg/L)
Copper	0.1300
Lead	0.0055
Molybdenum	0.0047
Nickel	0.0052
Zinc	0.135
bis(2-ethylhexyl) phthalate	0.0235
Oil and Grease (petroleum and vegetable)	100
BOD	354

(a) The above limits apply at the point where the wastewater is discharged to the POTW and apply to instantaneous maximum concentrations. All concentrations for metallic substances are for total metal unless indicated otherwise. The General Manager may impose mass limitations in addition to the concentration-based limitations above.

(b) **Analytical Requirements.** All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, unless otherwise specified in an applicable categorical Pretreatment Standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the General Manager or other parties approved by EPA.

(c) **BMPs.** The General Manager may develop Best Management Practices (BMPs), by ordinance or in individual wastewater discharge permits, or general permits, to implement Local Limits and the requirements of Rule 24.

(d) **Right of Revision.** The MCSD reserves the right to establish, by ordinance or in individual wastewater discharge permits or in general permits, more stringent Standards or Requirements on discharges to the POTW consistent with the purpose of this ordinance.

(e) **Dilution.** No User shall ever increase the use of process water, or in any way attempt to dilute a discharge, as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Requirement. The General Manager may impose mass limitations on Users who are using dilution to meet applicable Pretreatment Standards or Requirements or in other cases when the imposition of mass limitations is appropriate.

Rule 24.01 (pg 63-64) contains a list of prohibitions

Rule 24.01. PROHIBITIONS ON DISCHARGES - no User shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes Pass Through or Interference. This general prohibition applies to all Users of the POTW whether or not they are subject to categorical Pretreatment Standards or any other National, State, or local Pretreatment Standards or Requirements.

No person shall introduce or cause to be introduced into the POTW the following pollutants, substances, or wastewater containing:

(a) pollutants which cause a fire or explosion hazard in the POTW, including, but not limited to, waste streams with a closed-cup flashpoint of less than 140 degrees F (60 degrees C) using the test methods specified in 40 CFR 261.21;

(b) solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference or injury to the treatment works;

(c) pollutants which cause a danger to life or safety of personnel;

(d) pollutants which cause a strong offensive odor or prevention of the effective maintenance or operation of the treatment works;

(e) pollutants which cause air pollution by the release of toxic or malodorous gases or malodorous gas-producing substances;

(f) Pollutants, including oxygen-demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause Interference with the POTW;

(g) pollutants which cause a the District's effluent or any other product of the treatment process, residues, sludges, or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation or treatment process;

(h) pollutants which cause a detrimental environmental impact or a nuisance in the Waters of the State or a condition unacceptable to any public agency having regulatory jurisdiction over the District;

(i) any wastewater which imparts color which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the treatment plant's effluent thereby violating the MCDS's NPDES permit;

(j) pollutants which cause conditions at or near the District's POTW which violate any statute or any rule, regulation, or ordinance of any public agency or State or Federal regulatory body;
(k) pollutants which cause the District's POTW to be overloaded or cause excessive collection or treatment costs, or may use a disproportionate share of the facilities;
(l) pollutants which cause a pass through of any pollutant;
(m) wastewater having a pH less than 6.5 or more than 8.5, or otherwise causing corrosive structural damage to the POTW or equipment;
(n) wastewater having a temperature greater than 140 degrees F (65 degrees C), or which will inhibit biological activity in the treatment plant resulting in Interference, but in no case wastewater which causes the temperature at the introduction into the treatment plant to exceed 104 degrees F (40 degrees C);
(o) more than 100 mg/l of oil or grease of animal or vegetable origin;
(p) more than 25 mg/L Total Petroleum Hydrocarbons (TPH) as diesel, motor oil, hydraulic oil or gasoline;
(q) petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
(r) identifiable chlorinated hydrocarbons;
(s) trucked or hauled pollutants, except at discharge points designated by the General Manager in accordance with Rule 24.15 of this ordinance;
(t) substances which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261;
(u) medical Wastes, except as specifically authorized by the General Manager in an individual wastewater discharge permit, or a general permit.
(v) any detectable concentration of 4, 4-DDT.

Industrial User	Address	Sig User?	Avg (GPM)	Peak (GPM)	SIC	Pretreatment	Permit?
BMW of Humboldt County	1795 Central Ave.	No	2.5	17 (hose)	5511	Oil/Water Separator for car wash station	Yes
Central Dental Care	1955 Central Ave.	No	1.5	1.5	8021	Wet Vac Filtration for dental operations	Yes
Dr. Johansson, DDS	1661 Pickett Road	No	0 (dry vac)	0	8021	Dry Vac Filtration for dental operation	Yes
Dr. Mellon, DDS	1737 Central Ave.	No	0 (dry vac)	0	8021	Dry Vac Filtration for dental operation	Yes
Humboldt Petroleum - Shell	1606 Central Ave.	No	0 (recycle)	7 (final rinse)	7542	Filtration / Reuse of carwash water with final fresh rinse	Yes
Humboldt Regeneration	2320 Central Ave.	No	5	5	2082	Metering of brewery discharge water - pH balancing as needed	Yes
Humboldt Sanitation	2585 Central Ave.	No	5	5	4953	Oil Water Separator for truck wash station	Yes
Les Schwab Tires	2210 Central Ave.	No	17	17	5531	Oil Water Separator for tire wash rack	Yes
Mickey's Quality Cars	1901 Central Ave.	No	2.5	17 (hose)	5511	Oil/Water Separator for car wash station	Yes
McKinleyville Union School District	2275 Central Ave.	No	2.5	17 (hose)	4151	Filtration system for bus wash station	Yes
Six Rivers Brewery	1300 Central Ave.	Yes	50	50	2082	Metering of brewery discharge water into system	Yes
Steve's Septic Service	1810 Murray Road	Yes	30	70	171107	Polymerized filtration of pumped sewage	Yes
The Auto Spa	1642 Holly Drive	Yes	5	22	7542	Oil/Water Separators for car wash stations	Yes
US Coast Guard - Aviation	1001 Lycoming Ave.	No	15	15	9229	Filtration system for helicopter wash station	Yes
Average flow rate shows the common rate while operations are ongoing							
Peak flow rate shows uncommon flow that may occur intermitently.							