McKinleyville Community Services District

ANNUAL WASTEWATER MANAGEMENT FACILITY MONITORING & DISCHARGE REPORT FOR 2020

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

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February 3, 2021

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 2020

The McKinleyville Community Services District operates the wastewater collection, treatment, and disposal facilities that serve 6564 customer units in the unincorporated area of McKinleyville in Northern Humboldt County. The system operated 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	.25		.75		
Ammonia Impact Ratio	ug/L	1.0		1.0[3]		
Dichlorobromomethane	ug/L	.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	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 Fisher Road.
	GW-002	Well M-2, on the southwest corner of the intersection of School and Fisher 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 Fisher 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 requirement 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 2020 were not exceeded.

Total Suspended Solids Testing (TSS):

Discharge Point 001 requirement for TSS are 30 mg/L and 85% removal for the monthly average and a weekly average of 45 mg/l.
TSS limitations for 2020 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 2020

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 2020 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 2020

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 2020 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 2020 were in compliance.

Dichlorobromomethane Testing:

The effluent limitations for Dichlorobromomethane for Discharge Point 001 are listed in Table 1. There were no exceedances in 2020.

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 day of notification. The results for Acute Testing were in compliance in 2020.

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

Table 4 Acute Monthly Testing for 2020

Date Collected	Test	Trout Survival	TST
1/8/2020	Monthly	100%	PASS
2/13/2020	Monthly	100%	PASS
3/5/2020	Monthly	100%	PASS
4/6/2020	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 per permit during the 2020 discharge season. The testing results for Chronic Testing are detailed in Table 4

Table 5 Chronic Toxicity Testing for 2020

Dilution Water	Date	Test Species	
		Flathead minnow	
		% effect	TST
Diluted w/ Lab Control Water	January 2020	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 2019.

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 2010 through 2020. The average BOD in 2020 was 5 mg/L and continues to remain well below 30mg/L, our current limit.

Chart 1 Annual Average BOD Concentrations

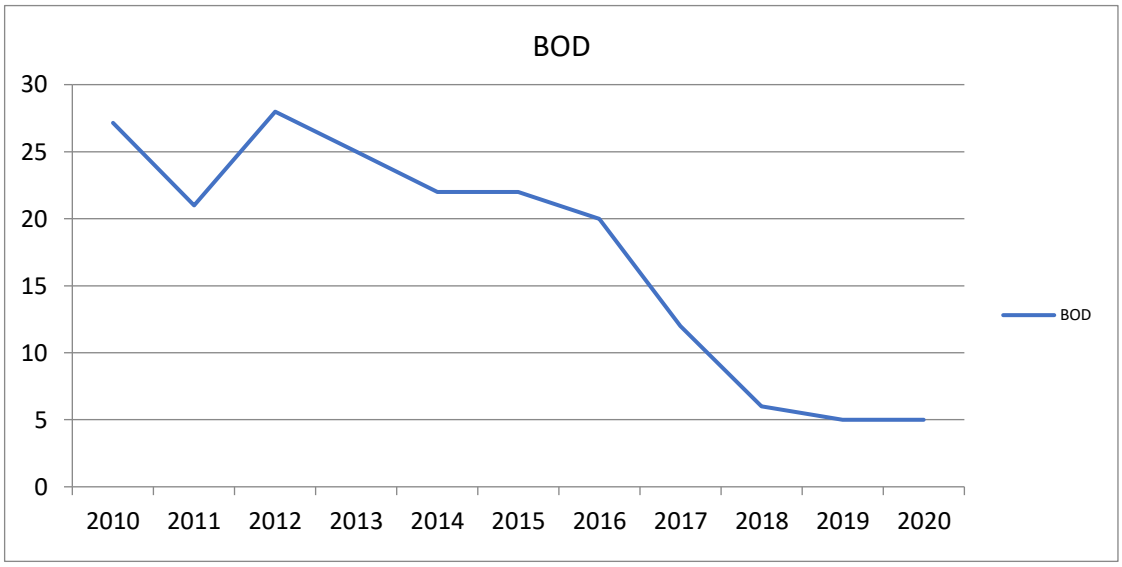


Chart 2 demonstrates average TSS concentration in mg/L from 2010 through 2020. The average TSS in 2020 was 2 mg/L and is well below the level it was in 2010. There was a trend increase in 2016 possibly due to the draining of Pond A to build the new plant which diverts flow and nutrient to one Facultative Pond instead of two, along with the additional aerators placed in Pond B.

Chart 2 Annual Average TSS Concentrations

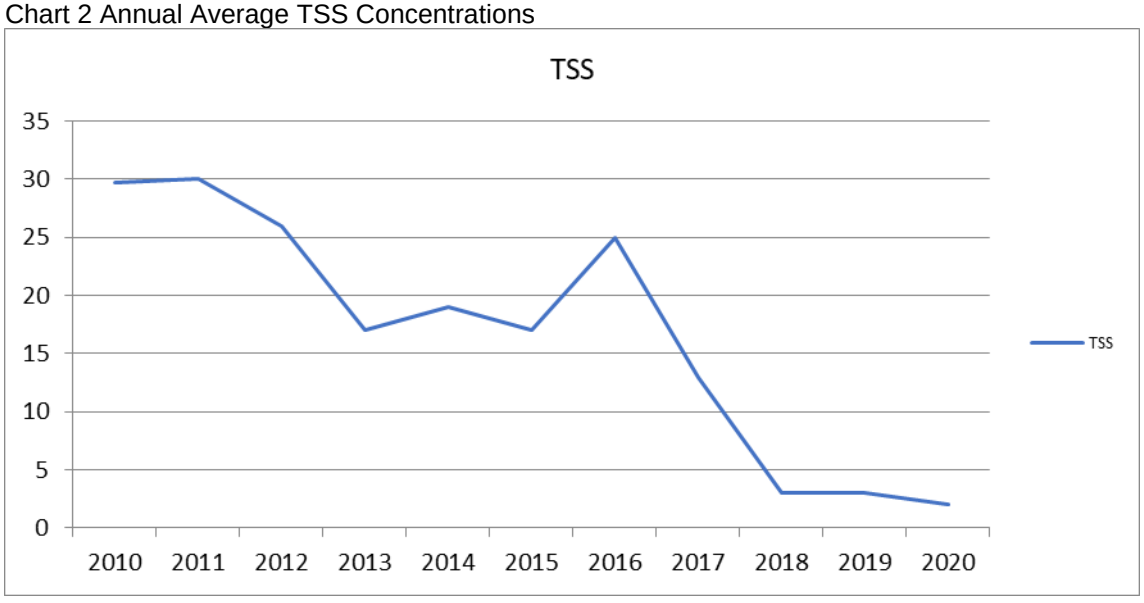
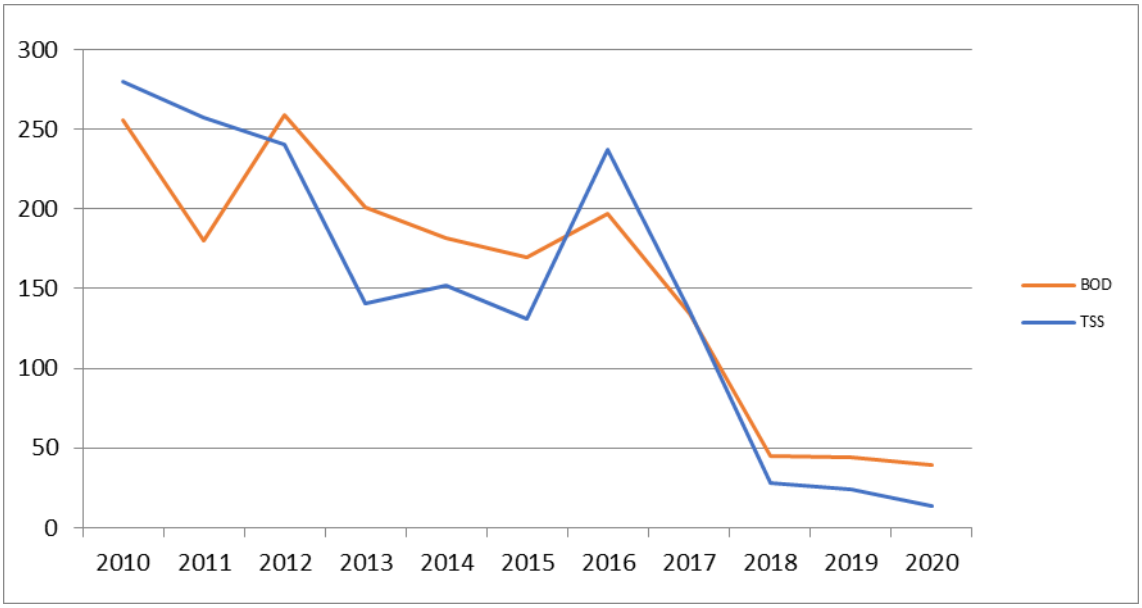


Chart 3 is the product of the flow and the concentration. It is identified as mass loading and measured in pounds per day.

Chart 3 Annual Average BOD and TSS Mass Loading



Charts 1-3 demonstrate the steady trend downward of BOD and TSS from 2010. 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 2020.

Summary of Work Completed in 2020

Ammonia Study Work Plan:
The District is required to conduct a freshwater mussel survey of the lower Mad River in accordance with the current National Pollutant Discharge Elimination System (NPDES) permit requirements for the McKinleyville Wastewater Treatment Facility (WWTF).

Under Waste Discharge Requirements (WDR) Order No. R1-2018-0032, Special Provision VI.C.2.a, the District was required to submit a work plan for conducting the freshwater mussel study to the Regional Water Board by October 1, 2020.
The District submitted the MCSD Freshwater Mussel Study Workplan (Moonstone Associates, 2020) for Regional Water Board review and approval in September 2020. The District received Regional Board approval of the work plan in December 2020. A copy of the complete approved work plan is available online at https://www.mckinleyvillecsd.com/files/e5580fb3c/20200928-MCSDMusselStudyWorkPlan.pdf

Local Limits Study:
Federal water quality regulations require local governments to prevent the introduction of certain pollutants into their Publicly Owned Treatment Works (POTW), in order to prevent interference with wastewater treatment processes and pass through of pollutants and provide for the use and disposal of municipal biosolids (sludge). This is accomplished through development and implementation of specific effluent limits (local limits) for industrial users. These limits are developed to reflect the specific needs and capabilities at individual POTWs and protect the waterbody to which the POTW discharges.
Freshwater Environmental Services (FES) has assisted the McKinleyville Community Services District (MCSD) in developing the Local Limits Study Workplan (Workplan) to outline the steps required for a local limits update.
The Workplan was submitted to the Regional Water Quality Control Board (RWQCB) for review in September 2019 and the implementation was approved in December of 2019. Staff conducted the study in July of 2020 and the results were used to develop an updated Local Limits Report which was submitted to the RWQCB for approval. A copy of the complete Local Limits Report is available online at https://www.mckinleyvillecsd.com/files/b8e69aefa/MCSD+Local+Limits+Report+2020+%28Final%29.pdf

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. A copy of the report that was sent to the State Water Board is available online at https://www.mckinleyvillecsd.com/files/1b084b1f4/MCSD+2020+DMR-QA+Report.pdf

Per- and Polyflouroalkyl Substances (PFAS) Sampling:
The State Water Board issued *Order WQ 2020-0015-DWQ for the Determination of the Presence of Per- and Polyfluoroalkyl Substances at Publicly Owned Treatment Works (Order)* on July 9, 2020. PFAS sampling will be conducted quarterly per the Order issued. A copy of the 4th Quarter sampling that was submitted to the State Water Board is available online at https://www.mckinleyvillecsd.com/files/fce206be9/PFAS+4th+quarter+Monitoring+Report.pdf

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. http://mckinleyvillecsd.com/document-library/20%20Year%20Facilities%20Plan

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	Equipment and site maintenance
Jordan Johnson	Equipment and site maintenance
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

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Influent and Effluent Monthly Totals
Influent and Effluent Maximum Day

EXHIBIT B: Tabular PG 12

CFS, River Dilution, Effluent Flow and Effluent Distribution

EXHIBIT C: Tabular and Graphical Data PG 16

Monthly Totals for Effluent Flow, Discharge Disposal Locations
Annual Effluent Distribution Pie Chart
Daily Totals for Effluent Flow and Discharge Disposal Locations

EXHIBIT D: Tabular Data PG 29

Monthly Monitoring Report (Permit exceedances highlighted in yellow)

EXHIBIT E: Tabular Data PG 42

Influent and Effluent Testing Daily, Monthly and Annual Averages

EXHIBIT F: Tabular and Graphical Data PG 55

30-day Average BOD and NFR Worksheet
30 Day BOD, NFR and Percent Removal Maximum, Minimum and Average Chart
BOD and NFR 30 Average Concentration Chart
BOD and NFR 30 Average lbs/day Chart
BOD Influent, Effluent and Terminal Pond Comparisons

EXHIBIT G: Tabular and Graphical Data PG 61

Monthly Averages for pH, temperature and Ammonia
Influent and Effluent Average Total Ammonia Chart
Relationship between Temperature and Ammonia Percent Removal Chart

EXHIBIT H: Tabular Data PG 64

Well Monitoring Data
Discharge Data RSW-001, RSW-002 and EFF-001

EXHIBIT I: Tabular Graphical Data PG 66

Monthly/ Annual Averages for Pond Ammonia
Monthly/ Annual Averages for Pond Temperature
Monthly/ Annual Averages for Pond pH
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EXHIBIT J: Tabular Data PG 71

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

EXHIBIT K: Tabular Data PG 72

Monthly Process Data Results

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EXHIBIT M: Summary of Irrigation Compliance Report PG 86

Nitrogen Loading lbs/acre
Daily Irrigation Inspection Form

EXHIBIT N: Instrument Calibration Logs PG 91

EXHIBIT O: Source Control PG 168

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

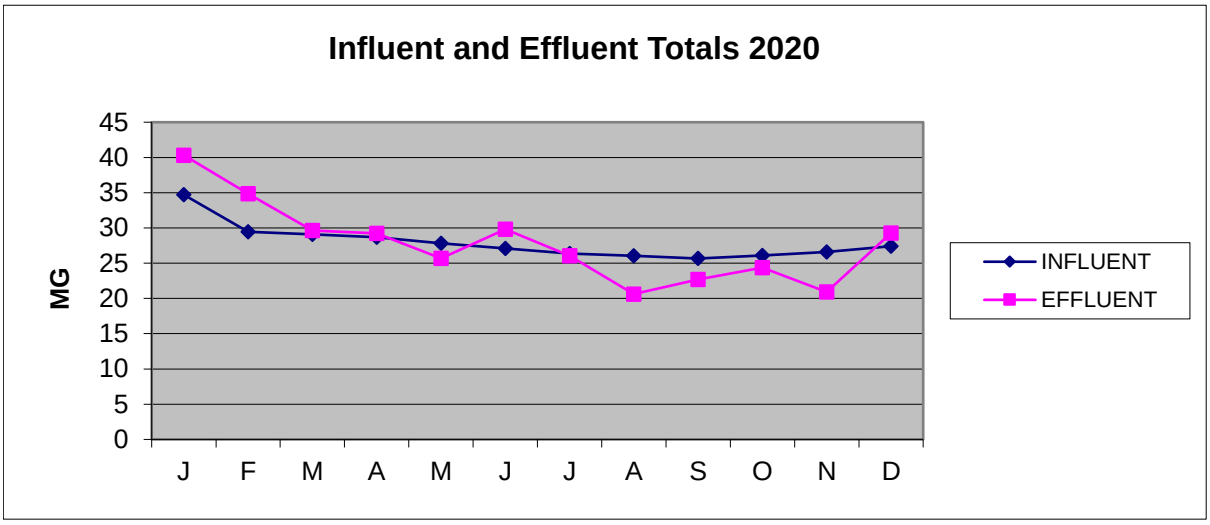
If you have any questions, please contact this office.

"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

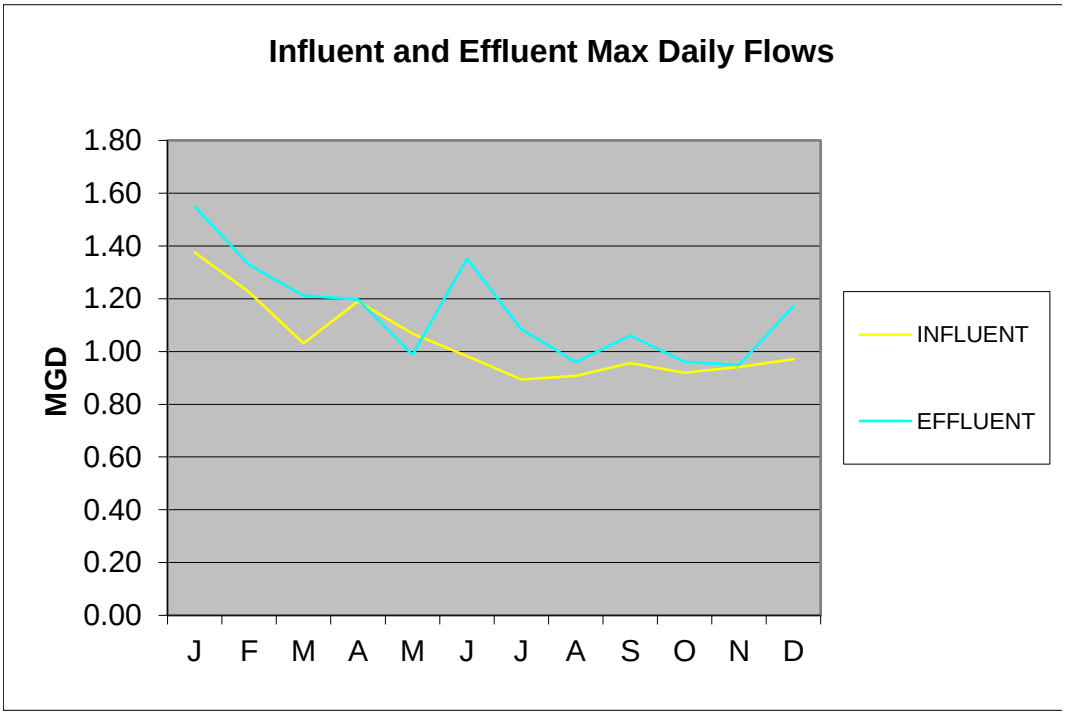
McKinleyville Community Services District
Wastewater Management Facility
Influent and Effluent Flows 2020
in MGD

DATE	INFLUENT	EFFLUENT	AVERAGE GPM
January	34.706	40.316	1314
February	29.430	34.851	1253
March	29.099	29.624	1113
April	28.697	29.211	1109
May	27.802	25.668	923
June	27.087	29.833	1060
July	26.378	26.054	983
August	26.041	20.618	891
September	25.663	22.711	1135
October	26.078	24.383	976
November	26.598	20.906	960
December	27.397	29.289	1148
Total	334.976	333.464	
Average	27.915	27.789	1072
Maximum	34.706	40.316	1314
Minimum	25.663	20.618	891



McKinleyville Community Services District
Wastewater Management Facility
Influent and Effluent Max Daily Flows in MGD
2020

DATE	INFLUENT	EFFLUENT	MAX GPM
January	1.375	1.550	1652
February	1.225	1.328	1354
March	1.031	1.212	1642
April	1.190	1.197	1593
May	1.068	0.987	1100
June	0.982	1.351	1369
July	0.894	1.085	1362
August	0.908	0.960	1343
September	0.956	1.060	2448
October	0.920	0.961	1214
November	0.941	0.949	1319
December	0.971	1.172	1323
Maximum	1.375	1.550	2448



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

January 2020

DATE	M-INF INFLUENT MGD	M-001 EFFLUENT MGD	EFFLUENT MAXIMUM GPM	M-003 PERK PONDS MGD	M-004 M-005 M-006 M-007 IRRIGATE MGD	M-002 RIVER MGD	RIVER DILUTION 100: 1	MAXIMUM G.P.M. DISCHARGE FOR 100:1	RIVER FLOW IN CFS	RIVER FLOW IN GPS
1	0.992	1.236	1174			1.236	286	3357	748	5596
2	0.985	1.196	1256			1.196	440	5521	1230	9202
3	0.953	1.175	1154			1.175	361	4165	928	6942
4	1.045	1.297	1263			1.297	339	4282	954	7137
5	1.069	1.171	1188			1.171	412	4893	1090	8154
6	0.969	1.188	1336			1.188	314	4192	934	6987
7	0.952	1.109	1192			1.109	303	3613	805	6022
8	1.023	1.213	1253			1.213	412	5162	1150	8603
9	1.073	1.366	1330			1.366	803	10683	2380	17805
10	1.020	1.233	1244			1.233	729	9067	2020	15112
11	1.127	1.331	1362			1.331	735	10010	2230	16683
12	1.170	1.229	1236			1.229	1006	12433	2770	20722
13	1.123	1.315	1513			1.315	994	15037	3350	25061
14	1.112	1.318	1387			1.318	2175	30163	6720	50272
15	1.105	1.245	1258			1.245	1499	18852	4200	31420
16	1.375	1.207	1652			1.207	1497	24732	5510	41220
17	1.154	1.528	1298			1.528	1584	20558	4580	34263
18	1.192	1.384	1354			1.384	935	12658	2820	21096
19	1.174	1.261	1274			1.261	782	9965	2220	16608
20	1.169	1.307	1211			1.307	789	9561	2130	15935
21	1.148	1.408	1408			1.408	657	9247	2060	15411
22	1.113	1.309	1356			1.309	1033	14004	3120	23341
23	1.085	1.357	1402			1.357	746	10458	2330	17431
24	1.060	1.216	1267			1.216	932	11805	2630	19675
25	1.185	1.257	1246			1.257	1045	13017	2900	21695
26	1.353	1.339	1108			1.339	4942	54761	12200	91268
27	1.209	1.447	1390			1.447	1773	24642	5490	41071
28	1.241	1.550	1498			1.550	1411	21141	4710	35236
29	1.200	1.390	1372			1.390	1489	20423	4550	34039
30	1.188	1.439	1413			1.439	1217	17191	3830	28652
31	1.141	1.294	1340			1.294	1085	14543	3240	24238
TOTAL	34.706	40.316		0.000	0.000	40.316				
AVERAGE	1.120	1.301	1314	0.000	0.000	1.301	1056	13875	3091	23126
MAXIMUM	1.375	1.550	1652	0.000	0.000	1.550	4942	54761	12200	91268
MINIMUM	0.952	1.109	1108	0.000	0.000	1.109	286	3357	748	5596
DAYS	31	30		0	0	31				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

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

February 2020

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	1.167	1.328	1264			1.328	852	10773	2400	17954
2	1.225	1.246	1218			1.246	755	9202	2050	15336
3	1.140	1.313	1338			1.313	607	8124	1810	13541
4	1.084	1.273	1333			1.273	529	7047	1570	11745
5	1.079	1.328	1354			1.328	464	6284	1400	10473
6	1.049	1.179	1312			1.179	434	5701	1270	9501
7	1.032	1.228	1272			1.228	416	5297	1180	8828
8	1.071	1.215	1240			1.215	384	4758	1060	7930
9	1.112	1.115	1160			1.115	380	4403	981	7339
10	1.028	1.172	1274			1.172	320	4076	908	6793
11	1.002	1.279	1326			1.279	289	3829	853	6381
12	1.008	1.197	1317			1.197	240	3164	705	5274
13	0.979	1.251	1324			1.251	201	2657	592	4429
14	0.967	1.177	1258			1.177	193	2424	540	4040
15	0.999	1.230	1286			1.230	177	2276	507	3793
16	1.051	1.198	1189			1.198	187	2226	496	3711
17	1.041	1.269	1244			1.269	196	2437	543	4062
18	0.986	1.160	1159			1.160	192	2222	495	3703
19	0.969	1.228	1190			1.228	175	2078	463	3464
20	0.933	1.159	1190			1.159	166	1970	439	3284
21	0.920	1.225	1203			1.225	154	1858	414	3097
22	0.961	1.121	1133			1.121	155	1755	391	2925
23	1.027	1.191	1309			1.191	128	1674	373	2790
24	0.941	1.109	1221			1.109	132	1616	360	2693
25	0.943	1.179	1300			1.179	118	1540	343	2566
26	0.936	1.108	1255			1.108	120	1504	335	2506
27	0.930	1.169	1269			1.169	113	1432	319	2386
28	0.901	1.119	1204			1.119	114	1378	307	2297
29	0.949	1.085	1184			1.085	112	1324	295	2207
TOTAL	29.430	34.851		0.000	0.000	34.851				
AVERAGE	1.015	1.202	1253	0.000	0.000	1.202	293	3704	825	6173
MAXIMUM	1.225	1.328	1354	0.000	0.000	1.328	852	10773	2400	17954
MINIMUM	0.901	1.085	1133	0.000	0.000	1.085	113	1378	307	2297
DAYS	29	29				29				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 0

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

March 2020

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	1.017	1.161	1241			1.161	107	1333	297	2222
2	0.934	1.086	1261			1.086	101	1275	284	2125
3	0.915	1.162	1642			1.162	75	1225	273	2042
4	0.931	1.088	1251			1.088	94	1172	261	1953
5	0.904	1.141	1275			1.141	88	1122	250	1870
6	0.890	1.063	1207			1.063	91	1104	246	1840
7	0.954	1.125	1233			1.125	91	1118	249	1863
8	0.976	1.026	1156			1.026	102	1181	263	1968
9	0.909	1.076	1236			1.076	91	1127	251	1878
10	0.904	1.063	1222			1.063	86	1050	234	1751
11	0.891	1.052	1163			1.052	88	1019	227	1698
12	0.890	1.049	1183			1.049	80	947	211	1578
13	0.870	0.403	1140			0.403	83	947	211	1578
14	0.950	0.000	0	No Discharge		0.000	0	987	220	1646
15	1.031	0.000	0	No Discharge		0.000	0	1270	283	2117
16	0.953	0.000	0	No Discharge		0.000	0	1360	303	2267
17	0.934	0.716	1035			0.716	121	1257	280	2095
18	0.918	1.111	1188			1.111	113	1342	299	2237
19	0.919	1.143	1228			1.143	117	1432	319	2386
20	0.926	1.054	1204			1.054	127	1526	340	2544
21	0.946	1.040	1142			1.040	135	1544	344	2573
22	0.975	1.109	1330			1.109	116	1544	344	2573
23	0.927	1.062	1134			1.062	140	1584	353	2641
24	0.939	1.102	1218			1.102	132	1607	358	2678
25	0.974	1.173	1485			1.173	157	2339	521	3898
26	0.937	1.056	1162			1.056	197	2285	509	3808
27	0.926	1.081	1166			1.081	173	2015	449	3359
28	0.942	1.045	1198			1.045	155	1858	414	3097
29	0.967	1.078	1224			1.078	145	1773	395	2955
30	0.941	1.147	1244			1.147	164	2042	455	3404
31	1.009	1.212	1342			1.212	465	6239	1390	10399
TOTAL	29.099	29.624		0.000	0.000	29.624				
AVERAGE	0.939	0.956	1113	0.000	0.000	0.956	117	1569	349	2614
MAXIMUM	1.031	1.212	1642	0.000	0.000	1.212	465	6239	1390	10399
MINIMUM	0.870	0.000	0	0.000	0.000	0.000	397	947	211	1578
DAYS	31	28		0	0	28				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 3

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

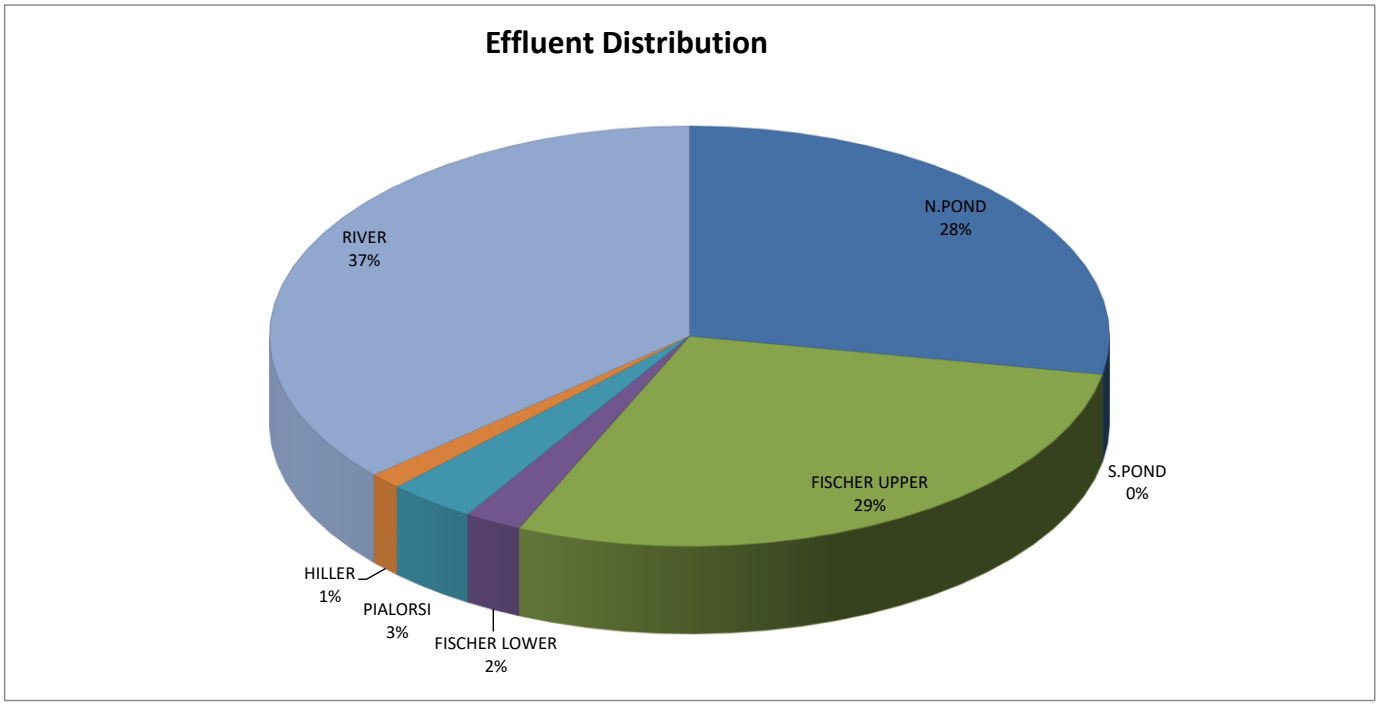
April 2020

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	0.974	1.089	1262			1.089	943	11895	2650	19825
2	0.950	1.119	1201			1.119	583	7002	1560	11670
3	0.935	1.023	1159			1.023	457	5297	1180	8828
4	0.996	1.040	1111			1.040	381	4228	942	7047
5	1.190	1.114	978			1.114	840	8214	1830	13690
6	1.078	1.184	1200			1.184	939	11266	2510	18777
7	1.019	1.197	1272			1.197	607	7720	1720	12867
8	1.012	1.146	1593			1.146	397	6329	1410	10548
9	0.984	1.182	1180			1.182	453	5341	1190	8902
10	0.979	1.111	1208			1.111	375	4533	1010	7556
11	1.010	1.140	1326			1.140	277	3676	819	6127
12	0.996	1.077	1191			1.077	271	3227	719	5379
13	0.974	1.099	1114			1.099	256	2850	635	4750
14	0.942	1.053	1109			1.053	228	2527	563	4212
15	0.937	1.083	1188			1.083	176	2087	465	3479
16	0.932	1.088	1161			1.088	171	1988	443	3314
17	0.927	1.069	1139			1.069	156	1782	397	2970
18	0.923	1.030	1189			1.030	140	1670	372	2783
19	0.966	0.987	1195			0.987	136	1625	362	2708
20	0.927	1.010	1106			1.010	139	1540	343	2566
21	0.907	1.050	1165			1.050	125	1459	325	2431
22	0.911	1.075	1170			1.075	116	1360	303	2267
23	0.921	1.081	1190			1.081	122	1450	323	2416
24	0.897	0.916	1228			0.916	110	1351	301	2252
25	0.925	0.759	867			0.759	143	1243	277	2072
26	0.940	0.760	874			0.760	133	1158	258	1930
27	0.898	0.799	934			0.799	110	1028	229	1713
28	0.873	0.464	918			0.464	102	938	209	1564
29	0.890	0.000	0	Shut down				0		0
30	0.884	0.466	1035	0.466				0		0
TOTAL	28.697	29.211		0.466	0.000	28.745				
AVERAGE	0.957	0.974	1109	0.000	0.000	1.027	317	3493	834	5821
MAXIMUM	1.190	1.197	1593	0.466	0.000	1.197	943	11895	2650	19825
MINIMUM	0.873	0.000	0	0.000	0.000	0.464	102	0	209	0
DAYS	30	29		1	0	28				

DAYS WITH NO DISCHARGE TO THE MAD RIVER = 2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL TOTALS 2020

Dischrange Monitoring DATE	**M-INF** INFLUENT MGD	**M-001** EFFLUENT MGD	**002 M-003** N.POND MGD	**002 M-003** S.POND MGD	**004 M-005** FISCHER UPPER MGD	**003 M-004** FISCHER LOWER MGD	**006 M-007** PIALORSI MGD	**005 M-006** HILLER MGD	IRRGATE TOTAL MGD	**001 M-002** RIVER MGD
JANUARY	34.7	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.3
FEBRUARY	29.4	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
MARCH	29.1	29.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6
APRIL	28.7	29.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	28.7
MAY	27.8	25.7	12.0	0.0	13.7	0.0	0.0	0.0	13.7	0.0
JUNE	27.1	29.8	14.0	0.0	14.1	0.0	0.0	1.8	15.8	0.0
JULY	26.4	26.1	10.1	0.0	12.4	1.3	0.0	2.2	15.9	0.0
AUGUST	26.0	20.6	8.6	0.0	9.3	1.8	1.0	0.0	12.0	0.0
SEPTEMBER	25.7	22.7	7.2	0.0	11.2	2.7	1.6	0.0	15.5	0.0
OCTOBER	26.1	24.4	10.3	0.0	10.6	0.5	3.0	0.0	14.1	0.0
NOVEMBER	26.6	20.9	10.4	0.0	8.2	0.4	2.0	0.0	10.5	0.0
DECEMBER	27.4	29.3	13.6	0.0	9.8	0.2	3.0	0.0	15.7	0.0
Totals	335.0	333.5	86.7	0.0	89.3	6.9	10.5	4.0	113.3	133.5



McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL JANUARY 2020

Dischrange 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	0.992	1.236	1174							0.000	1.236
2	0.985	1.196	1256							0.000	1.196
3	0.953	1.175	1154							0.000	1.175
4	1.045	1.297	1263							0.000	1.297
5	1.069	1.171	1188							0.000	1.171
6	0.969	1.188	1336							0.000	1.188
7	0.952	1.109	1192							0.000	1.109
8	1.023	1.213	1253							0.000	1.213
9	1.073	1.366	1330							0.000	1.366
10	1.020	1.233	1244							0.000	1.233
11	1.127	1.331	1362							0.000	1.331
12	1.170	1.229	1236							0.000	1.229
13	1.123	1.315	1513							0.000	1.315
14	1.112	1.318	1387							0.000	1.318
15	1.105	1.245	1258							0.000	1.245
16	1.375	1.207	1652							0.000	1.207
17	1.154	1.528	1298							0.000	1.528
18	1.192	1.384	1354							0.000	1.384
19	1.174	1.261	1274							0.000	1.261
20	1.169	1.307	1211							0.000	1.307
21	1.148	1.408	1408							0.000	1.408
22	1.113	1.309	1356							0.000	1.309
23	1.085	1.357	1402							0.000	1.357
24	1.060	1.216	1267							0.000	1.216
25	1.185	1.257	1246							0.000	1.257
26	1.353	1.339	1108							0.000	1.339
27	1.209	1.447	1390							0.000	1.447
28	1.241	1.550	1498							0.000	1.550
29	1.200	1.390	1372							0.000	1.390
30	1.188	1.439	1413							0.000	1.439
31	1.141	1.294	1340							0.000	1.294
TOTAL	34.706	40.316		0.000	0.000	0.000	0.000	0.000	0.000	0.000	40.316
AVERAGE	1.120	1.301	1314	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.301
MAXIMUM	1.375	1.550	1652	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.550
MINIMUM	0.952	1.109	1108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.109
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 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	1.167	1.328	1264							0.000	1.328
2	1.225	1.246	1218							0.000	1.246
3	1.140	1.313	1338							0.000	1.313
4	1.084	1.273	1333							0.000	1.273
5	1.079	1.328	1354							0.000	1.328
6	1.049	1.179	1312							0.000	1.179
7	1.032	1.228	1272							0.000	1.228
8	1.071	1.215	1240							0.000	1.215
9	1.112	1.115	1160							0.000	1.115
10	1.028	1.172	1274							0.000	1.172
11	1.002	1.279	1326							0.000	1.279
12	1.008	1.197	1317							0.000	1.197
13	0.979	1.251	1324							0.000	1.251
14	0.967	1.177	1258							0.000	1.177
15	0.999	1.230	1286							0.000	1.230
16	1.051	1.198	1189							0.000	1.198
17	1.041	1.269	1244							0.000	1.269
18	0.986	1.160	1159							0.000	1.160
19	0.969	1.228	1190							0.000	1.228
20	0.933	1.159	1190							0.000	1.159
21	0.920	1.225	1203							0.000	1.225
22	0.961	1.121	1133							0.000	1.121
23	1.027	1.191	1309							0.000	1.191
24	0.941	1.109	1221							0.000	1.109
25	0.943	1.179	1300							0.000	1.179
26	0.936	1.108	1255							0.000	1.108
27	0.930	1.169	1269							0.000	1.169
28	0.901	1.119	1204							0.000	1.119
29	0.949	1.085	1184							0.000	1.085
TOTAL	29.430	34.851		0.000	0.000	0.000	0.000	0.000	0.000	0.000	34.851
AVERAGE	1.015	1.202	1253	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.202
MAXIMUM	1.225	1.328	1354	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.328
MINIMUM	0.901	1.085	1133	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.085
DAYS	29	29	29	0	0	0	0	0	0	0	29

DAYS WITH NO DISCHARGE =

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL MARCH 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	1.017	1.161	1241							0.000	1.161
2	0.934	1.086	1261							0.000	1.086
3	0.915	1.162	1642							0.000	1.162
4	0.931	1.088	1251							0.000	1.088
5	0.904	1.141	1275							0.000	1.141
6	0.890	1.063	1207							0.000	1.063
7	0.954	1.125	1233							0.000	1.125
8	0.976	1.026	1156							0.000	1.026
9	0.909	1.076	1236							0.000	1.076
10	0.904	1.063	1222							0.000	1.063
11	0.891	1.052	1163							0.000	1.052
12	0.890	1.049	1183							0.000	1.049
13	0.870	0.403	1140							0.000	0.403
14	0.950	0.000	0			No Discharge				0.000	0.000
15	1.031	0.000	0			No Discharge				0.000	0.000
16	0.953	0.000	0			No Discharge				0.000	0.000
17	0.934	0.716	1035							0.000	0.716
18	0.918	1.111	1188							0.000	1.111
19	0.919	1.143	1228							0.000	1.143
20	0.926	1.054	1204							0.000	1.054
21	0.946	1.040	1142							0.000	1.040
22	0.975	1.109	1330							0.000	1.109
23	0.927	1.062	1134							0.000	1.062
24	0.939	1.102	1218							0.000	1.102
25	0.974	1.173	1485							0.000	1.173
26	0.937	1.056	1162							0.000	1.056
27	0.926	1.081	1166							0.000	1.081
28	0.942	1.045	1198							0.000	1.045
29	0.967	1.078	1224							0.000	1.078
30	0.941	1.147	1244							0.000	1.147
31	1.009	1.212	1342							0.000	1.212
TOTAL	29.099	29.624		0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.624
AVERAGE	0.939	0.956	1113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.956
MAXIMUM	1.031	1.212	1642	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.212
MINIMUM	0.870	0.000	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	31	28		0	0	0	0	0	0	0	30
LBS/ACRE						0	0	0	0		

DAYS WITH NO DISCHARGE = 3

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL April 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.974	1.089	1262							0.000	1.089
2	0.950	1.119	1201							0.000	1.119
3	0.935	1.023	1159							0.000	1.023
4	0.996	1.040	1111							0.000	1.040
5	1.190	1.114	978							0.000	1.114
6	1.078	1.184	1200							0.000	1.184
7	1.019	1.197	1272							0.000	1.197
8	1.012	1.146	1593							0.000	1.146
9	0.984	1.182	1180							0.000	1.182
10	0.979	1.111	1208							0.000	1.111
11	1.010	1.140	1326							0.000	1.140
12	0.996	1.077	1191							0.000	1.077
13	0.974	1.099	1114							0.000	1.099
14	0.942	1.053	1109							0.000	1.053
15	0.937	1.083	1188							0.000	1.083
16	0.932	1.088	1161							0.000	1.088
17	0.927	1.069	1139							0.000	1.069
18	0.923	1.030	1189							0.000	1.030
19	0.966	0.987	1195							0.000	0.987
20	0.927	1.010	1106							0.000	1.010
21	0.907	1.050	1165							0.000	1.050
22	0.911	1.075	1170							0.000	1.075
23	0.921	1.081	1190							0.000	1.081
24	0.897	0.916	1228							0.000	0.916
25	0.925	0.759	867							0.000	0.759
26	0.940	0.760	874							0.000	0.760
27	0.898	0.799	934							0.000	0.799
28	0.873	0.464	918	Shut down River Discharge						0.000	0.464
29	0.890	0.000	0		No Discharge					0.000	0.000
30	0.884	0.466	1035	0.466						0.000	0.000
TOTAL	28.697	29.211		0.466	0.000	0.000	0.000	0.000	0.000	0.000	28.745
AVERAGE	0.957	0.974	1109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.958
MAXIMUM	1.190	1.197	1593	0.466	0.000	0.000	0.000	0.000	0.000	0.000	1.197
MINIMUM	0.873	0.000	0	0.466	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DAYS	30	29		1	0	0	0	0	0	0	30

DAYS WITH NO DISCHARGE =

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL May 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.882	0.745	829	0.745						0.000	0.000
2	0.913	0.737	903	0.737						0.000	0.000
3	0.949	0.736	858	0.736						0.000	0.000
4	0.885	0.662	833	0.276		0.386				0.386	0.000
5	0.869	0.652	778			0.652				0.652	0.000
6	0.872	0.766	904			0.766				0.766	0.000
7	0.874	0.836	902			0.836				0.836	0.000
8	0.877	0.804	902	0.334		0.470				0.470	0.000
9	0.903	0.775	857	0.775						0.000	0.000
10	0.924	0.768	870	0.768						0.000	0.000
11	0.894	0.850	943	0.288		0.562				0.562	0.000
12	0.893	0.900	993			0.900				0.900	0.000
13	0.903	0.906	914			0.906				0.906	0.000
14	0.905	0.905	921			0.905				0.905	0.000
15	0.874	0.742	906	0.323		0.419				0.419	0.000
16	0.921	0.597	861	0.597						0.000	0.000
17	0.047	0.589	887	0.589						0.000	0.000
18	1.068	0.805	1100	0.215		0.590				0.590	0.000
19	1.036	0.921	960			0.921				0.921	0.000
20	0.976	0.911	1033			0.911				0.911	0.000
21	0.964	0.905	923			0.905				0.905	0.000
22	0.920	0.886	1014	0.463		0.423				0.423	0.000
23	0.927	0.854	895	0.854						0.000	0.000
24	0.903	0.854	908	0.854						0.000	0.000
25	0.952	0.848	880	0.848						0.000	0.000
26	0.920	0.909	941	0.353		0.556				0.556	0.000
27	0.910	0.983	941			0.983				0.983	0.000
28	0.900	0.987	1006			0.987				0.987	0.000
29	0.902	0.964	994	0.391		0.573				0.573	0.000
30	0.995	0.940	1050	0.940						0.000	0.000
31	1.044	0.931	920	0.931						0.000	0.000
TOTAL	27.802	25.668		12.017	0.000	13.651	0.000	0.000	0.000	13.651	0.000
AVERAGE	0.897	0.828	923	0.000	0.000	0.000	0.000	0.000	0.000	0.440	0.000
MAXIMUM	1.068	0.987	1100	0.940	0.000	0.987	0.000	0.000	0.000	0.987	0.000
MINIMUM	0.047	0.589	778	0.215	0.000	0.386	0.000	0.000	0.000	0.000	0.000
DAYS	31	31	31	20	0	19	0	0	0	18	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL June 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.982	0.692	918	0.348		0.344				0.344	0.000
2	0.941	0.468	920			0.468				0.468	0.000
3	0.934	0.895	1216			0.895				0.895	0.000
4	0.922	0.880	868			0.880				0.880	0.000
5	0.905	0.940	921	0.428		0.512				0.512	0.000
6	0.929	1.032	984	1.032						0.000	0.000
7	0.975	1.023	1222	1.023						0.000	0.000
8	0.930	0.934	954	0.489		0.445				0.445	0.000
9	0.918	0.837	1296			0.837				0.837	0.000
10	0.919	0.850	946			0.850				0.850	0.000
11	0.912	0.849	863			0.849				0.849	0.000
12	0.891	1.074	1083	0.705		0.369				0.369	0.000
13	0.911	1.250	1169	1.250						0.000	0.000
14	0.926	1.235	1159	1.235						0.000	0.000
15	0.900	1.134	1188	0.741		0.317			0.076	0.393	0.000
16	0.883	1.087	1046			0.929			0.158	1.087	0.000
17	0.884	1.103	1042			0.916			0.187	1.103	0.000
18	0.882	1.064	999			0.879			0.185	1.064	0.000
19	0.874	1.218	1257	0.624		0.477			0.117	0.594	0.000
20	0.863	1.351	1331	1.351						0.000	0.000
21	0.901	1.321	1369	1.321						0.000	0.000
22	0.915	1.187	1332	0.640		0.446			0.101	0.547	0.000
23	0.885	0.936	947			0.761			0.175	0.936	0.000
24	0.881	0.957	912			0.764			0.193	0.957	0.000
25	0.877	0.946	907			0.757			0.189	0.946	0.000
26	0.862	0.936	933	0.404		0.432			0.100	0.532	0.000
27	0.874	0.971	1083	0.971						0.000	0.000
28	0.903	0.963	983	0.963						0.000	0.000
29	0.862	0.909	1054	0.465		0.360			0.084	0.444	0.000
30	0.846	0.791	895			0.589			0.202	0.791	0.000
TOTAL	27.087	29.833		13.990	0.000	14.076	0.000	0.000	1.767	15.843	0.000
AVERAGE	0.903	0.994	1060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAXIMUM	0.982	1.351	1369	1.351	0.000	0.929	0.000	0.000	0.202	1.103	0.000
MINIMUM	0.846	0.468	863	0.348	0.000	0.317	0.000	0.000	0.076	0.000	0.000
DAYS	30	30		17	0	22	0	0	12	22	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL JULY 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.846	0.851	1097			0.649			0.202	0.851	0.000
2	0.852	0.885	1362	0.429		0.364			0.092	0.456	0.000
3	0.844	0.792	840	0.792						0.000	0.000
4	0.822	0.786	879	0.786						0.000	0.000
5	0.882	0.786	826	0.786						0.000	0.000
6	0.886	0.916	967	0.297		0.543			0.076	0.619	0.000
7	0.863	1.049	1141			0.876			0.173	1.049	0.000
8	0.851	1.068	843			0.884			0.184	1.068	0.000
9	0.850	1.069	1080			0.876			0.193	1.069	0.000
10	0.845	0.813	1118	0.360		0.374			0.079	0.453	0.000
11	0.850	0.629	666	0.629						0.000	0.000
12	0.888	0.627	725	0.627						0.000	0.000
13	0.863	0.837	874	0.500		0.229			0.108	0.337	0.000
14	0.843	0.944	991			0.772			0.172	0.944	0.000
15	0.858	0.949	1016			0.774			0.175	0.949	0.000
16	0.853	0.895	1102			0.714			0.181	0.895	0.000
17	0.851	0.800	991	0.441		0.276			0.083	0.359	0.000
18	0.856	0.756	814	0.756						0.000	0.000
19	0.894	0.750	873	0.750						0.000	0.000
20	0.857	0.863	885	0.305		0.460			0.098	0.558	0.000
21	0.839	1.085	1124			0.521	0.384		0.180	1.085	0.000
22	0.839	0.877	1106			0.525	0.151		0.201	0.877	0.000
23	0.828	0.781	947			0.614	0.167			0.781	0.000
24	0.822	0.710	942	0.491		0.156	0.063			0.219	0.000
25	0.833	0.777	976	0.777						0.000	0.000
26	0.874	0.775	1050	0.775						0.000	0.000
27	0.853	0.845	958	0.366		0.479				0.479	0.000
28	0.835	0.899	1252			0.727	0.172			0.899	0.000
29	0.843	0.822	1080			0.651	0.171			0.822	0.000
30	0.828	0.817	963			0.639	0.178			0.817	0.000
31	0.830	0.601	992	0.281		0.271	0.049			0.320	0.000
TOTAL	26.378	26.054		10.148	0.000	12.374	1.335	0.000	2.197	15.906	0.000
AVERAGE	0.851	0.840	983	0.000	0.000	0.562	0.167	0.000	0.000	0.513	0.000
MAXIMUM	0.894	1.085	1362	0.792	0.000	0.884	0.384	0.000	0.202	1.085	0.000
MINIMUM	0.822	0.601	666	0.281	0.000	0.156	0.049	0.000	0.076	0.000	0.000
DAYS	31	31		18	0	22	8	0	15	23	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL August 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.824	0.519	640	0.519						0.000	0.000
2	0.868	0.518	605	0.518						0.000	0.000
3	0.846	0.748	990	0.327		0.312	0.109			0.421	0.000
4	0.838	0.845	1110			0.642	0.144	0.059		0.845	0.000
5	0.845	0.856	1112			0.696	0.084	0.076		0.856	0.000
6	0.824	0.855	1097			0.625	0.137	0.093		0.855	0.000
7	0.827	0.683	1035	0.365		0.248	0.046	0.024		0.318	0.000
8	0.836	0.549	660	0.549						0.000	0.000
9	0.869	0.547	646	0.547						0.000	0.000
10	0.845	0.195	646	0.195						0.000	0.000
11	0.810	0.000	0	Shut Down to Clean CCB						0.000	0.000
12	0.827	0.257	700			0.257				0.257	0.000
13	0.825	0.585	711			0.585				0.585	0.000
14	0.821	0.607	720	0.344		0.263				0.263	0.000
15	0.841	0.591	708	0.591						0.000	0.000
16	0.908	0.591	697	0.591						0.000	0.000
17	0.840	0.842	1216	0.221		0.419	0.126	0.076		0.621	0.000
18	0.823	0.788	1052			0.629	0.078	0.081		0.788	0.000
19	0.832	0.789	1062			0.617	0.085	0.087		0.789	0.000
20	0.834	0.845	1209			0.614	0.180	0.051		0.845	0.000
21	0.840	0.655	1059	0.381		0.214	0.040	0.020		0.274	0.000
22	0.819	0.638	703	0.638						0.000	0.000
23	0.882	0.648	776	0.648						0.000	0.000
24	0.842	0.960	1343	0.264		0.447	0.173	0.076		0.696	0.000
25	0.821	0.924	1140			0.720	0.126	0.078		0.924	0.000
26	0.845	0.887	1134			0.676	0.131	0.080		0.887	0.000
27	0.821	0.914	1213			0.703	0.134	0.077		0.914	0.000
28	0.816	0.665	1112	0.401		0.202	0.041	0.021		0.264	0.000
29	0.834	0.612	742	0.612						0.000	0.000
30	0.895	0.606	684	0.606						0.000	0.000
31	0.843	0.899	1323	0.278		0.405	0.135	0.081		0.621	0.000
TOTAL	26.041	20.618		8.595	0.000	9.274	1.769	0.980	0.000	12.023	0.000
AVERAGE	0.840	0.665	891	0.000	0.000	0.000	0.000	0.000	0.000	0.388	0.000
MAXIMUM	0.908	0.960	1343	0.648	0.000	0.720	0.180	0.093	0.000	0.924	0.000
MINIMUM	0.810	0.000	0	0.195	0.000	0.000	0.040	0.020	0.000	0.000	0.000
DAYS	31	30		19	0	19	16	15	0	19	0

DAYS WITH NO DISCHARGE = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL September 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.837	0.839	1092			0.684	0.101	0.054		0.839	0.000
2	0.843	0.835	1093			0.608	0.151	0.076		0.835	0.000
3	0.857	0.829	1083			0.593	0.158	0.078		0.829	0.000
4	0.851	0.668	1552	0.169		0.400	0.067	0.032		0.499	0.000
5	0.865	0.340	560	0.340						0.000	0.000
6	0.860	0.342	587	0.342						0.000	0.000
7	0.933	0.341	599	0.341						0.000	0.000
8	0.956	0.747	1104	0.142		0.383	0.147	0.075		0.605	0.000
9	0.935	0.845	1080			0.620	0.152	0.073		0.845	0.000
10	0.829	0.828	1080			0.602	0.155	0.071		0.828	0.000
11	0.832	0.571	884	0.285		0.222	0.043	0.021		0.286	0.000
12	0.865	0.529	673	0.529						0.000	0.000
13	0.893	0.528	681	0.528						0.000	0.000
14	0.836	0.946	1202	0.237		0.476	0.161	0.072		0.709	0.000
15	0.835	0.988	1302			0.717	0.187	0.084		0.988	0.000
16	0.833	0.940	1253			0.657	0.202	0.081		0.940	0.000
17	0.828	0.923	2448			0.656	0.195	0.072		0.923	0.000
18	0.814	0.763	2356	0.373		0.268	0.090	0.032		0.390	0.000
19	0.841	0.715	804	0.715						0.000	0.000
20	0.881	0.715	727	0.715						0.000	0.000
21	0.846	0.974	1332	0.268		0.422	0.206	0.078		0.706	0.000
22	0.823	0.889	1250			0.644	0.180	0.065		0.889	0.000
23	0.820	0.755	2024			0.587	0.125	0.043		0.755	0.000
24	0.834	0.829	1101			0.691	0.089	0.049		0.829	0.000
25	0.818	0.790	1152	0.414		0.298	0.051	0.027		0.376	0.000
26	0.849	0.765	765	0.765						0.000	0.000
27	0.884	0.761	789	0.761						0.000	0.000
28	0.849	1.060	1400	0.287		0.465	0.212	0.096		0.773	0.000
29	0.851	0.831	1034			0.629		0.202		0.831	0.000
30	0.865	0.825	1037			0.617		0.208		0.825	0.000
TOTAL	25.663	22.711		7.211	0.000	11.239	2.672	1.589	0.000	15.500	0.000
AVERAGE	0.855	0.757	1135	0.000	0.000	0.535	0.141	0.076	0.000	0.517	0.000
MAXIMUM	0.956	1.060	2448	0.765	0.000	0.717	0.212	0.208	0.000	0.988	0.000
MINIMUM	0.814	0.340	560	0.142	0.000	0.222	0.043	0.021	0.000	0.000	0.000
DAYS	30	30		17	0	21	19	21	0	21	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL OCTOBER 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.858	0.890	1214			0.603	0.081	0.206		0.890	0.000
2	0.857	0.716	952	0.372		0.267		0.077		0.344	0.000
3	0.869	0.688	713	0.688						0.000	0.000
4	0.917	0.686	757	0.686						0.000	0.000
5	0.879	0.903	1178	0.243		0.423	0.055	0.182		0.660	0.000
6	0.867	0.842	1063			0.698		0.144		0.842	0.000
7	0.848	0.828	1046			0.657		0.171		0.828	0.000
8	0.852	0.897	1170			0.674	0.038	0.185		0.897	0.000
9	0.851	0.809	1034	0.442		0.317		0.050		0.367	0.000
10	0.896	0.817	832	0.817						0.000	0.000
11	0.920	0.815	797	0.815						0.000	0.000
12	0.893	0.813	805	0.813						0.000	0.000
13	0.869	0.961	1210	0.289		0.440	0.072	0.160		0.672	0.000
14	0.870	0.807	1034			0.629		0.178		0.807	0.000
15	0.851	0.801	1037			0.648		0.153		0.801	0.000
16	0.846	0.691	776	0.411		0.280				0.280	0.000
17	0.877	0.760	906	0.760						0.000	0.000
18	0.905	0.758	840	0.758						0.000	0.000
19	0.880	0.855	1093	0.297		0.367	0.019	0.172		0.558	0.000
20	0.854	0.805	1096			0.565	0.038	0.202		0.805	0.000
21	0.859	0.822	1077			0.575	0.042	0.205		0.822	0.000
22	0.853	0.844	1143			0.620	0.045	0.179		0.844	0.000
23	0.849	0.700	844	0.347		0.353				0.353	0.000
24	0.866	0.667	798	0.667						0.000	0.000
25	0.914	0.668	764	0.668						0.000	0.000
26	0.872	0.832	1115	0.264		0.348	0.039	0.181		0.568	0.000
27	0.851	0.775	1031			0.590		0.185		0.775	0.000
28	0.855	0.786	1049			0.604		0.182		0.786	0.000
29	0.842	0.848	1122			0.632	0.040	0.176		0.848	0.000
30	0.847	0.686	985	0.319		0.314		0.053		0.367	0.000
31	0.869	0.613	781	0.613						0.000	0.000
TOTAL	26.078	24.383		10.269	0.000	10.604	0.469	3.041	0.000	14.114	0.000
AVERAGE	0.869	0.787	976	0.000	0.000	0.505	0.000	0.000	0.000	0.455	0.000
MAXIMUM	0.920	0.961	1214	0.817	0.000	0.698	0.081	0.206	0.000	0.897	0.000
MINIMUM	0.842	0.613	713	0.243	0.000	0.267	0.019	0.050	0.000	0.000	0.000
DAYS	31	31		19	0	21	10	19	0	21	0

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL NOVEMBER 2020

Dischrange Monitoring DATE	**INF-001** INFLUENT MGD	**EFF-001** EFFLUENT MGD	MAXIMUM GPM	**002 LND-001** N.POND MGD	**002 LND-001** S.POND MGD	**004 REC-001** FISCHER MGD UPPER	**003 REC-001** FISCHER MGD LOWER	**006 REC-001** PIALORSI MGD	**005 REC-001** HILLER MGD	IRRGATE TOTAL MGD	**001 EFF-001** RIVER MGD
1	0.923	0.625	741	0.625						0.000	0.000
2	0.878	0.216	701	0.216						0.000	0.000
3	0.849	0.000	0			No Discharge				0.000	0.000
4	0.861	0.627	1319			0.495		0.132		0.627	0.000
5	0.862	0.949	1219			0.722	0.055	0.172		0.949	0.000
6	0.881	0.738	1059	0.338		0.324		0.076		0.400	0.000
7	0.884	0.624	809	0.624						0.000	0.000
8	0.923	0.614	774	0.614						0.000	0.000
9	0.875	0.809	1232	0.252		0.361	0.047	0.149		0.557	0.000
10	0.852	0.786	1093			0.631		0.155		0.786	0.000
11	0.881	0.656	802			0.656				0.656	0.000
12	0.852	0.844	1157			0.638	0.048	0.158		0.844	0.000
13	0.861	0.687	1099	0.369		0.318				0.318	0.000
14	0.881	0.681	829	0.681						0.000	0.000
15	0.928	0.677	849	0.677						0.000	0.000
16	0.879	0.852	1166	0.283		0.355	0.051	0.163		0.569	0.000
17	0.901	0.718	928			0.693		0.025		0.718	0.000
18	0.905	0.858	1097			0.707		0.151		0.858	0.000
19	0.885	0.878	1197			0.674	0.049	0.155		0.878	0.000
20	0.863	0.607	1007	0.470		0.084		0.053		0.137	0.000
21	0.878	0.869	921	0.869						0.000	0.000
22	0.914	0.862	945	0.862						0.000	0.000
23	0.897	0.829	1073	0.434		0.269		0.126		0.395	0.000
24	0.884	0.802	1189			0.585	0.051	0.166		0.802	0.000
25	0.920	0.669	1046	0.263		0.304		0.102		0.406	0.000
26	0.941	0.601	836	0.601						0.000	0.000
27	0.853	0.661	858	0.661						0.000	0.000
28	0.871	0.657	880	0.657						0.000	0.000
29	0.925	0.651	816	0.651						0.000	0.000
30	0.891	0.859	1170	0.225		0.411	0.055	0.168		0.634	0.000
TOTAL	26.598	20.906		10.372	0.000	8.227	0.356	1.951	0.000	10.534	0.000
AVERAGE	0.887	0.697	960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAXIMUM	0.941	0.949	1319	0.869	0.000	0.722	0.055	0.172	0.000	0.949	0.000
MINIMUM	0.849	0.000	0	0.216	0.000	0.000	0.047	0.025	0.000	0.000	0.000
DAYS	30	29	29	20	0	17	7	15	0	17	0
LBS/ACRE						1.013	0.147	0.018	0.000		

DAYS WITH NO DISCHARGE = 1

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
EFFLUENT DISCHARGE DISPOSAL DECEMBER 2020

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

DAYS WITH NO DISCHARGE = 0

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

ANNUAL MONTHLY AVERAGES 2020

	MONTHLY TESTS EFF-001 DISCHARGE TO RIVER									LND-001 , REC-001 TO PERC PONDS and LAND							
January	Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Organic nitrogen	TDS	AMMONIA	NITRATE	NITRITE	SODIUM	CHLORIDE	BORON
	0.14	2.10	3.20	110	6	ND	ND	ND	DNQ.28	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
	0.12	1.50	3.0	91	4.2	ND	ND	ND	DNQ .34	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
	0.14	1.60	3.3	87	5.1	DNQ .08	ND	ND	DNQ .35	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
	0.19	1.40	5.9	89	5.3	ND	ND	ND	DNQ .30	N/A	240	1	5.9	ND	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
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4	230	ND	3.10	ND	37	50	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	1.60	240	ND	3.40	ND	37	48	220
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	1.00	250	ND	1.70	ND	41	53	240
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	1.50	290	ND	0.83	ND	44	54	250
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	1.40	260	ND	0.42	ND	43	54	260
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	1.10	270	ND	0.55	ND	45	58	260
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	1.10	280	ND	1.1	ND	45	51	270
December	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	1.10	260	ND	1.4	ND	44	57	270

Exhibit D

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: January 2020

	INFLUENT	EFFLUENT	EFFLUENT			INFLUENT MONITORING		EFFLUENT MONITORING								RSW-001				RSW-002			
DATE	FLOW M.G.D.	FLOW M.G.D.	MAXIMUM GPM	RIVER CFS	RIVER Dilution	B.O.D. mg/L	TSS mg/L	pH	(C°) TEMP	B.O.D. mg/L	TSS mg/L	CL_2 RES.	RIVER CL_2 RES	SETTLEABLE SOLIDS	TOTAL COLIFORM	TIME	PH	TEMP	D.O.	TIME	PH	TEMP	D.O.
1	0.992	1.236	1174	748	286			7.0	12.4			2.5	0.00										
2	0.985	1.196	1256	1230	440			7.1	11.9			2.2	0.00			10:00	7.0	9.7	11.6	10:08	6.9	9.2	11.5
3	0.953	1.175	1154	928	361	240	200	7.0	12.6	4.3	1.4	2.9	0.00	<0.1									
4	1.045	1.297	1263	954	339			6.9	12.3			2.6	0.00										
5	1.069	1.171	1188	1090	412			6.9	12.0			2.8	0.00										
6	0.969	1.188	1336	934	314			7.0	11.8			2.3	0.00		<1.8								
7	0.952	1.109	1192	805	303			7.0	11.5			2.3	0.00			1:45	7.0	9.8	9.6	2:00	7.0	9.4	11.4
8	1.023	1.213	1253	1150	412			7.0	12.3			3.2	0.00										
9	1.073	1.366	1330	2380	803			6.9	12.4			2.5	0.00										
10	1.020	1.233	1244	2020	729	250	180	6.9	12.4	2.1	3.2	2.4	0.00	<0.1									
11	1.127	1.331	1362	2230	735			6.8	12.0			2.4	0.00										
12	1.170	1.229	1236	2770	1006			6.9	12.0			2.3	0.00										
13	1.123	1.315	1513	3350	994			6.9	14.6			2.5	0.00		<1.8								
14	1.112	1.318	1387	6720	2175			7.0	11.8			2.5	0.00			2:30	6.8	9.6	12.6	2:40	6.8	10.6	12.3
15	1.105	1.245	1258	4200	1499			6.9	14.3			2.6	0.00										
16	1.375	1.207	1652	5510	1497			6.9	11.9			2.6	0.00										
17	1.154	1.528	1298	4580	1584	280	190	6.8	14.1	4.8	1.8	3.1	0.00	<0.1									
18	1.192	1.384	1354	2820	935			7.0	11.7			2.6	0.00										
19	1.174	1.261	1274	2220	782			7.0	11.5			2.5	0.00										
20	1.169	1.307	1211	2130	789			7.0	12.0			2.2	0.00										
21	1.148	1.408	1408	2060	657			6.9	16.8			2.6	0.00		2								
22	1.113	1.309	1356	3120	1033			6.8	13.3			2.5	0.00			1:20	7.1	14.9	11.4	1:35	7.1	13.8	11.6
23	1.085	1.357	1402	2330	746			6.8	14.6			2.6	0.00										
24	1.060	1.216	1267	2630	932	250	180	6.7	14.2	4.8	2.6	1.3	0.00	<0.1									
25	1.185	1.257	1246	2900	1045			6.7	13.5			1.6	0.00										
26	1.353	1.339	1108	12200	4942			6.7	13.8			2.5	0.00										
27	1.209	1.447	1390	5490	1773			6.8	14.9			2.7	0.00		<1.8								
28	1.241	1.550	1498	4710	1411			6.8	13.9			2.8	0.00			3:30	7.0	14.5	11.5	3:40	7.0	14.0	11.3
29	1.200	1.390	1372	4550	1489			6.9	14.7			2.8	0.00										
30	1.188	1.439	1413	3830	1217			6.9	14.2			2.9	0.00										
31	1.141	1.294	1340	3240	1085	250	180	6.8	14.2	7.2	2.0	2.4	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
0.14	2.1	3.2	110	5.8	ND	ND	ND	DNQ .28	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
81	59	ND	94.7	25.1

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
83	60	ND	100	24.6

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
1/8/2020	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.69

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	50	98	2	24	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: February 2020

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	1.167	1.328	1264	2400	852			7.0	14.3			2.3	0.00										
2	1.225	1.246	1218	2050	755			7.0	13.5			2.4	0.00										
3	1.140	1.313	1338	1810	607			7.0	13.3			2.5	0.00		<1.8	9:30	7.1	9.3	12.2	9:38	7.1	8.9	11.9
4	1.084	1.273	1333	1570	529			7.0	13.3			2.5	0.00										
5	1.079	1.328	1354	1400	464			7.0	12.5			2.8	0.00										
6	1.049	1.179	1312	1270	434			7.0	13.5			2.6	0.00										
7	1.032	1.228	1272	1180	416	270	190	7.0	12.9	6.0	2.0	2.4	0.00	<0.1									
8	1.071	1.215	1240	1060	384			7.0	12.3			2.4	0.00										
9	1.112	1.115	1160	981	380			7.0	11.4			2.5	0.00										
10	1.028	1.172	1274	908	320			7.1	12.3			2.1	0.00		2								
11	1.002	1.279	1326	853	289			7.1	12.0			2.6	0.00			3:10	7.1	14.4	10.9	3:20	7.1	12.6	11.3
12	1.008	1.197	1317	705	240			7.1	12.3			2.5	0.00										
13	0.979	1.251	1324	592	201			7.0	12.4			2.4	0.00										
14	0.967	1.177	1258	540	193	250	190	7.0	12.1	4.6	1.2	2.4	0.00	<0.1									
15	0.999	1.230	1286	507	177			7.0	11.8			2.3	0.00										
16	1.051	1.198	1189	496	187			6.9	12.5			2.2	0.00										
17	1.041	1.269	1244	543	196			6.9	12.5			2.2	0.00										
18	0.986	1.160	1159	495	192			7.1	12.5			2.2	0.00		2	1:20	7.1	14.2	11.2	1:30	7.2	13.6	9.6
19	0.969	1.228	1190	463	175			7.0	12.5			2.4	0.00										
20	0.933	1.159	1190	439	166			7.0	12.5			2.4	0.00										
21	0.920	1.225	1203	414	154	300	190	7.0	12.3	6.9	1.0	2.4	0.00	<0.1									
22	0.961	1.121	1133	391	155			6.9	12.9			2.3	0.00										
23	1.027	1.191	1309	373	128			6.9	12.9			2.4	0.00										
24	0.941	1.109	1221	360	132			7.0	13.1			1.7	0.00		4.5								
25	0.943	1.179	1300	343	118			7.1	12.8			2.3	0.00			3:40	7.1	14.9	11.3	3:50	7.1	14.4	9.5
26	0.936	1.108	1255	335	120			7.0	12.2			2.3	0.00										
27	0.930	1.169	1269	319	113			7.0	13.2			2.3	0.00										
28	0.901	1.119	1204	307	114	270	210	7.0	13.7	5.8	2.0	2.3	0.00	<0.1									
29	0.949	1.085	1184	295	112			7.0	11.9			2.2	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.12	1.50	3.0	91	4.2	ND	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

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
2/13/2020	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	N/A
Chloroform	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
74	56	ND	94.7	25.1

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
79	58	ND	100	24.6

BOD & TSS	BOD	BOD	TSS	TSS	TSS
	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	6	58	98	2	15	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: March 2020

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	1.017	1.161	1241	297	107			7.0	11.8			2.2	0.00										
2	0.934	1.086	1261	284	101			7.1	11.8			2.0	0.00		<1.8	10:00	7.2	9.0	11.6	10:10	7.2	10.2	9.9
3	0.915	1.162	1642	273	75			7.0	12.5			2.3	0.00										
4	0.931	1.088	1251	261	94			7.1	13.0			2.1	0.00										
5	0.904	1.141	1275	250	88			7.0	13.1			2.4	0.00										
6	0.890	1.063	1207	246	91	260	190	7.1	13.8	3.2	2.6	1.8	0.00	<0.1									
7	0.954	1.125	1233	249	91			7.0	13.6			2.0	0.00										
8	0.976	1.026	1156	263	102			7.0	13.0			2.1	0.00										
9	0.909	1.076	1236	251	91			7.2	13.6			2.1	0.00		<1.8								
10	0.904	1.063	1222	234	86			7.1	13.8			2.1	0.00			2:50	7.0	14.9	11.1	3:00	7.1	13.9	10.7
11	0.891	1.052	1163	227	88			7.0	14.2			2.0	0.00										
12	0.890	1.049	1183	211	80			7.0	14.2			2.1	0.00										
13	0.870	0.403	1140	211	83	270	200	7.1	13.4	7.2	4.2	2.0	0.00	<0.1									
14	0.950	0.000	0	220	N/A					No Discharge													
15	1.031	0.000	0	283	N/A					No Discharge													
16	0.953	0.000	0	303	N/A					No Discharge													
17	0.934	0.716	1035	280	121			6.9	13.7			2.2	0.00		<1.8	11:00	7.0	12.5	11.2	11:10	7.0	12.5	9.6
18	0.918	1.111	1188	299	113			7.0	13.2			2.2	0.00										
19	0.919	1.143	1228	319	117			7.2	13.4			2.2	0.00										
20	0.926	1.054	1204	340	127	290	320	7.0	13.4	2.4	4.2	2.2	0.00	<0.1									
21	0.946	1.040	1142	344	135			7.1	13.4			2.1	0.00										
22	0.975	1.109	1330	344	116			7.0	14.1			2.1	0.00										
23	0.927	1.062	1134	353	140			7.0	14.4			1.8	0.00		<1.8								
24	0.939	1.102	1218	358	132			7.1	14.9			2.2	0.00			2:50	7.1	13.7	10.9	3:00	7.1	13.5	10.8
25	0.974	1.173	1485	521	157			7.1	15.3			2.3	0.00										
26	0.937	1.056	1162	509	197			7.1	13.4			2.3	0.00										
27	0.926	1.081	1166	449	173	220	160	7.1	13.8	4.7	3.2	2.2	0.00	<0.1									
28	0.942	1.045	1198	414	155			7.1	13.9			1.9	0.00										
29	0.967	1.078	1224	395	145			7.1	14.0			1.8	0.00										
30	0.941	1.147	1244	455	164			7.1	15.1			1.8	0.00		<1.8								
31	1.009	1.212	1342	1390	465			7.1	15.5			2.1	0.00										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.14	1.60	3.3	87	5.1	DNQ .08	ND	ND	DNQ .35	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

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
3/5/2020	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	N/A
Chloroform	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
100	76	ND	117	1.4

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
150	78	0.35	165	1.5

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	4	29	98	4	26	98

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:__Discrepancy with CFS due to USGS making major changes w/ meter

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: April 2020

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	0.974	1.089	1262	2650	943			7.0	13.8			1.6	0.00										
2	0.950	1.119	1201	1560	583			7.0	13.8			1.8	0.00			1:15	7.6	12.3	11.8	1:25	7.5	11.5	11.9
3	0.935	1.023	1159	1180	457	360	250	7.0	13.9	5.3	2.8	1.5	0.00	<0.1									
4	0.996	1.040	1111	942	381			7.1	13.7			1.6	0.00										
5	1.190	1.114	978	1830	840			7.0	14.6			1.6	0.00										
6	1.078	1.184	1200	2510	939			7.0	14.4			1.8	0.00		<1.8								
7	1.019	1.197	1272	1720	607			7.1	14.6			1.8	0.00			2:45	7.3	10.8	13.9	2:55	7.4	13.7	10.9
8	1.012	1.146	1593	1410	397			7.0	15.4			1.6	0.00										
9	0.984	1.182	1180	1190	453			6.9	15.4			1.6	0.00										
10	0.979	1.111	1208	1010	375	310	230	7.0	15.7	4.6	3.2	1.7	0.00	<0.1									
11	1.010	1.140	1326	819	277			7.0	15.3			1.5	0.00										
12	0.996	1.077	1191	719	271			7.0	15.1			1.5	0.00										
13	0.974	1.099	1114	635	256			7.0	15.6			1.2	0.00										
14	0.942	1.053	1109	563	228			7.1	16.0			2.0	0.00		<1.8	10:45	6.9	14.4	10.4	11:00	6.9	14.9	9.5
15	0.937	1.083	1188	465	176			7.0	15.9			0.8	0.00										
16	0.932	1.088	1161	443	171			7.1	16.5			2.7	0.00										
17	0.927	1.069	1139	397	156	340	250	7.2	16.7	5.4	3.6	2.7	0.00	<0.1									
18	0.923	1.030	1189	372	140			7.2	16.1			2.9	0.00										
19	0.966	0.987	1195	362	136			7.2	15.9			2.6	0.00										
20	0.927	1.010	1106	343	139			7.3	16.3			2.8	0.00		<1.8								
21	0.907	1.050	1165	325	125			7.2	16.7			2.8	0.00			2:00	7.3	14.9	11.0	2:10	7.2	15.2	11.1
22	0.911	1.075	1170	303	116			7.2	16.9			2.9	0.00										
23	0.921	1.081	1190	323	122			7.3	17.4			2.0	0.00										
24	0.897	0.916	1228	301	110	340	320	7.3	16.3	4.7	2.4	2.2	0.00	<0.1									
25	0.925	0.759	867	277	143			7.3	17.3			0.9	0.00										
26	0.940	0.760	874	258	133			7.3	17.6			1.8	0.00										
27	0.898	0.799	934	229	110			7.5	18.2			1.2	0.00										
28	0.873	0.464	918	209	102			7.3	18.2			2.2	0.00		<1.8	8:00	7.5	15.0	9.9	8:10	7.4	15.5	9.7
29	0.890	0.000	0	N/A	N/A					Shut Down			N/A										
30	0.884	0.466	1035	N/A	N/A			7.0	19.3		Land	0.8	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
0.19	1.4	5.9	89	5.3	ND	ND	ND	DNQ .30	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	240	1.40	5.90	ND	N/A	N/A	N/A

ACUTE TOXICITY		
Date	Species	TST Pass/Fail
4/6/2020	Rainbow Trout	Pass

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	1.78

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
84	53	ND	78	29.5

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
84	53	ND	99	30.4

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	43	99	3	26	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Remarks:

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: May 2020

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	0.882	0.745	829	N/A	N/A	320	290	7.2	17.6	3.8	3.0	0.8	N/A	<0.1									
2	0.913	0.737	903	N/A	N/A			7.1	18.4			1.4	N/A										
3	0.949	0.736	858	N/A	N/A			7.0	17.4			2.3	N/A										
4	0.885	0.662	833	N/A	N/A			7.2	17.0			2.5	N/A		<1.8	14:00	7.4	17.6	10.0	14:15	7.5	17.7	9.8
5	0.869	0.652	778	N/A	N/A			7.2	18.6			2.1	N/A										
6	0.872	0.766	904	N/A	N/A			7.2	17.7			2.5	N/A										
7	0.874	0.836	902	N/A	N/A			7.1	17.9			2.7	N/A										
8	0.877	0.804	902	N/A	N/A	330	270	6.9	17.8	6.2	1.8	2.7	N/A	<0.1									
9	0.903	0.775	857	N/A	N/A			7.1	18.0			2.5	N/A										
10	0.924	0.768	870	N/A	N/A			7.1	18.1			2.7	N/A										
11	0.894	0.850	943	N/A	N/A			7.2	18.9			2.3	N/A		<1.8								
12	0.893	0.900	993	N/A	N/A			6.9	18.0			2.6	N/A			9:50	7.0	17.0	9.8	10:00	7.1	17.4	9.5
13	0.903	0.906	914	N/A	N/A			7.0	17.6			2.5	N/A										
14	0.905	0.905	921	N/A	N/A			7.1	14.7			2.1	N/A										
15	0.874	0.742	906	N/A	N/A	310	240	6.9	18.1	5.3	2.4	1.7	N/A	<0.1									
16	0.921	0.597	861	N/A	N/A			7.2	17.7			1.9	N/A										
17	0.047	0.589	887	N/A	N/A			7.2	18.0			1.8	N/A										
18	1.068	0.805	1100	N/A	N/A			7.3	17.6			1.6	N/A		12								
19	1.036	0.921	960	N/A	N/A			7.0	17.4			2.7	N/A			11:20	6.9	16.4	10.1	11:30	6.9	16.6	10.0
20	0.976	0.911	1033	N/A	N/A			7.1	17.8			2.9	N/A										
21	0.964	0.905	923	N/A	N/A			7.0	18.1			2.8	N/A										
22	0.920	0.886	1014	N/A	N/A	250	230	6.9	17.8	5.0	1.8	2.5	N/A	<0.1									
23	0.927	0.854	895	N/A	N/A			7.1	17.9			2.7	N/A										
24	0.903	0.854	908	N/A	N/A			7.1	18.1			2.7	N/A										
25	0.952	0.848	880	N/A	N/A			7.1	18.2			2.2	N/A										
26	0.920	0.909	941	N/A	N/A			7.0	18.9			2.5	N/A		<1.8	8:35	7.0	16.8	11.1	8:45	7.1	16.9	10.2
27	0.910	0.983	941	N/A	N/A			7.0	18.4			1.7	N/A										
28	0.900	0.987	1006	N/A	N/A			6.9	19.0			3.2	N/A										
29	0.902	0.964	994	N/A	N/A	540	440	6.9	19.5	6.0	1.6	2.0	N/A	<0.1									
30	0.995	0.940	1050	N/A	N/A			6.9	18.4			2.0	N/A										
31	1.044	0.931	920	N/A	N/A			6.9	17.8			1.8	N/A										

MONTHLY TESTS EFF-001 DISCHARGE TO RIVER

Ammonia Impact	Ammonia	Nitrate	Hardness	Phosphorus	Bis Phthalate	Carbon Tetrachloride	Chlorodibromomethane	Dichlorobromomethane	Turbidity % Increase
N/N	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	230	ND	3.10	ND	37	50	210

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
81	74	ND	151	2.4

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
89	73	ND	148	3.3

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

	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
BOD & TSS 30 DAY AVERAGE	5	34	98	2	15	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: June 2020

	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	0.982	0.692	918	N/A	N/A			7.0	18.6			2.1	N/A		<1.8	13:20	7.0	18.2	9.8	13:30	7.2	17.6	10.0
2	0.941	0.468	920	N/A	N/A			7.0	19.3			2.0	N/A										
3	0.934	0.895	1216	N/A	N/A			7.0	18.9			3.8	N/A										
4	0.922	0.880	868	N/A	N/A			7.0	18.7			2.5	N/A										
5	0.905	0.940	921	N/A	N/A	280	220	7.2	18.8	6.7	1.4	2.7	N/A	<.01									
6	0.929	1.032	984	N/A	N/A			6.9	18.9			3.2	N/A										
7	0.975	1.023	1222	N/A	N/A			7.0	18.5			2.6	N/A										
8	0.930	0.934	954	N/A	N/A			7.0	18.9			2.4	N/A		<1.8								
9	0.918	0.837	1296	N/A	N/A			7.1	18.6			2.4	N/A			16:20	7.2	18.1	11.0	16:30	7.2	17.9	10.8
10	0.919	0.850	946	N/A	N/A			7.1	19.9			2.4	N/A										
11	0.912	0.849	863	N/A	N/A			7.1	20.3			2.3	N/A										
12	0.891	1.074	1083	N/A	N/A	340	230	7.2	19.5	5.3	1.6	2.3	N/A	<0.1									
13	0.911	1.250	1169	N/A	N/A			7.0	19.2			2.9	N/A										
14	0.926	1.235	1159	N/A	N/A			7.0	19.1			2.5	N/A										
15	0.900	1.134	1188	N/A	N/A			6.9	19.8			2.5	N/A		<1.8								
16	0.883	1.087	1046	N/A	N/A			6.9	19.5			2.3	N/A			13:20	7.4	19.4	10.7	13:40	7.4	18.7	10.5
17	0.884	1.103	1042	N/A	N/A			6.9	19.6			2.4	N/A										
18	0.882	1.064	999	N/A	N/A			6.9	19.6			2.4	N/A										
19	0.874	1.218	1257	N/A	N/A	280	330	6.8	20.1	4.9	1.0	2.2	N/A	<0.1									
20	0.863	1.351	1331	N/A	N/A			7.0	19.1			2.6	N/A										
21	0.901	1.321	1369	N/A	N/A			6.8	19.1			2.4	N/A										
22	0.915	1.187	1332	N/A	N/A			7.0	19.8			2.5	N/A		<1.8								
23	0.885	0.936	947	N/A	N/A			6.9	20.8			1.6	N/A			14:45	7.4	19.8	11.1	14:55	7.5	19.5	11.0
24	0.881	0.957	912	N/A	N/A			6.9	20.5			1.9	N/A										
25	0.877	0.946	907	N/A	N/A			7.0	20.7			2.3	N/A										
26	0.862	0.936	933	N/A	N/A	280	150	7.1	19.9	6.2	1.0	2.2	N/A	<0.1									
27	0.874	0.971	1083	N/A	N/A			7.0	19.9			1.9	N/A										
28	0.903	0.963	983	N/A	N/A			7.1	19.9			1.5	N/A										
29	0.862	0.909	1054	N/A	N/A			7.0	20.0			2.4	N/A		<1.8								
30	0.846	0.791	895	N/A	N/A			7.1	19.6			1.5	N/A			16:15	7.5	18.4	11.0	13:25	7.4	17.9	10.4

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	240	ND	3.40	ND	37	48	220

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	N/A
Chloroform	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
93	66	ND	36.8	8

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
96	65	ND	33.1	8.9

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	6	50	98	1	11	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: July 2020

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	0.846	0.851	1097	N/A	N/A			6.9	19.4			1.2	N/A										
2	0.852	0.885	1362	N/A	N/A	270	170	7.0	19.2	6.2	1.2	1.8	N/A	<0.1									
3	0.844	0.792	840	N/A	N/A			7.1	19.4			1.9	N/A										
4	0.822	0.786	879	N/A	N/A			7.1	19.5			1.5	N/A										
5	0.882	0.786	826	N/A	N/A			7.0	19.3			1.6	N/A										
6	0.886	0.916	967	N/A	N/A			7.2	18.7			1.9	N/A		<1.8	1500	7.6	18.7	9.6	1510	9.0	21.0	11.4
7	0.863	1.049	1141	N/A	N/A			7.2	18.7			3.1	N/A										
8	0.851	1.068	843	N/A	N/A			7.3	18.7			3.2	N/A										
9	0.850	1.069	1080	N/A	N/A			7.1	19.0			3.4	N/A										
10	0.845	0.813	1118	N/A	N/A	490	330	7.2	19.2	6.4	1.0	3.3	N/A	<0.1									
11	0.850	0.629	666	N/A	N/A			7.1	19.4			1.9	N/A										
12	0.888	0.627	725	N/A	N/A			7.1	19.6			1.6	N/A										
13	0.863	0.837	874	N/A	N/A			7.2	19.2			1.7	N/A		<1.8								
14	0.843	0.944	991	N/A	N/A			7.3	18.4			3.4	N/A			1130	7.1	19.5	9.3	1140	7.7	20.0	9.3
15	0.858	0.949	1016	N/A	N/A			7.1	19.4			2.7	N/A										
16	0.853	0.895	1102	N/A	N/A			7.2	19.1			2.7	N/A										
17	0.851	0.800	991	N/A	N/A	540	310	7.2	19.8	6.2	1.4	2.8	N/A	<0.1									
18	0.856	0.756	814	N/A	N/A			7.1	20.2			2.5	N/A										
19	0.894	0.750	873	N/A	N/A			7.1	20.2			2.4	N/A										
20	0.857	0.863	885	N/A	N/A			7.2	19.0			2.6	N/A		<1.8								
21	0.839	1.085	1124	N/A	N/A			7.1	19.5			3.3	N/A			1425	7.2	19.1	10.2	1440	7.6	20.8	9.0
22	0.839	0.877	1106	N/A	N/A			7.2	19.6			2.6	N/A										
23	0.828	0.781	947	N/A	N/A			7.1	19.7			2.4	N/A										
24	0.822	0.710	942	N/A	N/A	280	250	7.1	19.8	6.3	ND	2.3	N/A	<0.1									
25	0.833	0.777	976	N/A	N/A			7.0	19.6			3.0	N/A										
26	0.874	0.775	1050	N/A	N/A			7.0	19.7			3.0	N/A										
27	0.853	0.845	958	N/A	N/A			7.1	18.6			2.8	N/A		<1.8								
28	0.835	0.899	1252	N/A	N/A			7.3	19.1			3.0	N/A			1110	7.5	19.8	9.5	1120	7.7	18.8	8.9
29	0.843	0.822	1080	N/A	N/A			7.0	19.9			2.8	N/A										
30	0.828	0.817	963	N/A	N/A			7.1	19.6			2.7	N/A										
31	0.830	0.601	992	N/A	N/A	420	350	7.0	19.8	9.7	1.4	2.5	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
1.00	250	ND	1.70	ND	41	53	240

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	N/A
Chloroform	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
120	99	ND	190	0.4

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
140	99	ND	221	0.7

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	7	43	98	1	6	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: August 2020

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	0.824	0.519	640	N/A	N/A			7.0	19.9			2.0											
2	0.868	0.518	605	N/A	N/A			7.0	19.9			2.0											
3	0.846	0.748	990	N/A	N/A			7.2	19.6			1.7			2	15:20	8.3	22.8	11.6	15:30	8.6	22.6	10.9
4	0.838	0.845	1110	N/A	N/A			7.1	19.7			2.7											
5	0.845	0.856	1112	N/A	N/A			7.1	19.7			3.1											
6	0.824	0.855	1097	N/A	N/A			7.0	19.6			2.8											
7	0.827	0.683	1035	N/A	N/A	390	250	7.1	19.9	8.5	1.2	3.0		<0.1									
8	0.836	0.549	660	N/A	N/A			7.1	19.4			2.3											
9	0.869	0.547	646	N/A	N/A			7.1	19.0			2.5											
10	0.845	0.195	646	N/A	N/A			7.1	18.3			2.5			<1.8								
11	0.810	0.000	0	N/A	N/A							Shut Down to Clean CCB				10:20	7.6	19.5	9.9	10:30	8.3	19.6	9.4
12	0.827	0.257	700	N/A	N/A			6.9	19.7			4.1											
13	0.825	0.585	711	N/A	N/A			7.1	18.8			5.8											
14	0.821	0.607	720	N/A	N/A	330	240	7.2	19.6	6.9	1.2	2.8		<0.1									
15	0.841	0.591	708	N/A	N/A			7.0	20.0			4.7											
16	0.908	0.591	697	N/A	N/A			7.0	20.3			4.2											
17	0.840	0.842	1216	N/A	N/A			7.0	19.3			4.0			<1.8								
18	0.823	0.788	1052	N/A	N/A			7.0	19.3			4.3				14:40	7.6	22.2	8.6	14:50	8.7	22.3	11.4
19	0.832	0.789	1062	N/A	N/A			7.1	19.1			3.8											
20	0.834	0.845	1209	N/A	N/A			7.1	19.3			3.3											
21	0.840	0.655	1059	N/A	N/A	380	310	6.9	20.0	6.1	1.6	3.2		<0.1									
22	0.819	0.638	703	N/A	N/A			6.9	19.8			4.1											
23	0.882	0.648	776	N/A	N/A			7.0	19.5			3.7											
24	0.842	0.960	1343	N/A	N/A			7.2	19.0			3.3			<1.8								
25	0.821	0.924	1140	N/A	N/A			7.0	19.0			4.1											
26	0.845	0.887	1134	N/A	N/A			7.0	18.9			3.4				10:30	7.6	19.6	8.3	10:40	7.8	18.5	8.8
27	0.821	0.914	1213	N/A	N/A			6.9	18.9			3.6											
28	0.816	0.665	1112	N/A	N/A	370	280	7.1	18.8	5.3	1.8	2.7		<0.1									
29	0.834	0.612	742	N/A	N/A			7.1	18.5			2.8											
30	0.895	0.606	684	N/A	N/A			7.1	18.5			2.4											
31	0.843	0.899	1323	N/A	N/A			7.2	18.5			2.7											

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
1.50	290	ND	0.83	ND	44	54	250

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
160	120	ND	200	0.3

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
1400	310	ND	720	1.2

ACUTE TOXICITY			Quarterly Tests	Value in ug/l
Date	Species	% Survivial	Bromoform	N/A
	Rainbow Trout	N/A	Chloroform	N/A

	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
BOD & TSS 30 DAY AVERAGE	7	37	98	1	8	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: September 2020

	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	0.837	0.839	1092	N/A	N/A			7.2	17.9			3.0	N/A			14:30	7.6	19.9	9.0	14:45	8.0	19.9	10.4
2	0.843	0.835	1093	N/A	N/A			7.1	18.2			2.8	N/A										
3	0.857	0.829	1083	N/A	N/A			7.1	18.1			3.0	N/A										
4	0.851	0.668	1552	N/A	N/A	360	300	7.0	18.3	4.9	1.2	2.5	N/A	<0.1									
5	0.865	0.340	560	N/A	N/A			7.1	18.1			0.7	N/A										
6	0.860	0.342	587	N/A	N/A			7.1	17.7			4.7	N/A										
7	0.933	0.341	599	N/A	N/A			7.2	17.6			4.6	N/A										
8	0.956	0.747	1104	N/A	N/A			7.2	17.2			4.9	N/A		<1.8								
9	0.935	0.845	1080	N/A	N/A			7.3	18.3			3.2	N/A			8:20	7.1	17.8	8.5	8:30	7.2	17.0	7.5
10	0.829	0.828	1080	N/A	N/A			7.2	18.1			3.6	N/A										
11	0.832	0.571	884	N/A	N/A	380	300	7.1	17.6	7.3	1.4	3.3	N/A	<0.1									
12	0.865	0.529	673	N/A	N/A			7.1	17.1			3.3	N/A										
13	0.893	0.528	681	N/A	N/A			7.2	16.7			2.7	N/A										
14	0.836	0.946	1202	N/A	N/A			7.2	16.8			3.0	N/A		<1.8								
15	0.835	0.988	1302	N/A	N/A			7.2	17.8			2.9	N/A										
16	0.833	0.940	1253	N/A	N/A			7.0	19.6			2.7	N/A			14:00	7.5	22.6	9.3	14:10	8.0	22.7	10.4
17	0.828	0.923	2448	N/A	N/A			7.0	18.8			2.8	N/A										
18	0.814	0.763	2356	N/A	N/A	380	340	6.7	15.5	4.5	3.0	1.1	N/A	<0.1									
19	0.841	0.715	804	N/A	N/A			7.0	18.4			0.9	N/A										
20	0.881	0.715	727	N/A	N/A			7.0	18.4			0.7	N/A										
21	0.846	0.974	1332	N/A	N/A			7.1	18.8			1.6	N/A		<1.8								
22	0.823	0.889	1250	N/A	N/A			6.9	18.6			1.4	N/A			8:20	7.5	19.6	8.2	8:30	7.4	19.1	6.8
23	0.820	0.755	2024	N/A	N/A			7.0	19.1			1.2	N/A										
24	0.834	0.829	1101	N/A	N/A			6.9	19.7			1.1	N/A										
25	0.818	0.790	1152	N/A	N/A	390	270	7.1	19.1	4.9	1.0	3.1	N/A	<0.1									
26	0.849	0.765	765	N/A	N/A			7.0	19.2			3.2	N/A										
27	0.884	0.761	789	N/A	N/A			7.1	19.0			3.1	N/A										
28	0.849	1.060	1400	N/A	N/A			7.1	19.2			4.1	N/A		<1.8								
29	0.851	0.831	1034	N/A	N/A			7.0	18.5			3.7	N/A			15:10	7.4	19.2	9.5	15:20	7.5	19.7	8.5
30	0.865	0.825	1037	N/A	N/A			7.2	19.0			4.5	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	260	ND	0.42	ND	43	54	260

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	55.6

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
100	120	ND	212	0.3

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
2300	460	ND	570	0.5

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	31	99	2	10	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: October 2020

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	0.858	0.890	1214	N/A	N/A			7.3	17.8			3.2	N/A										
2	0.857	0.716	952	N/A	N/A	340	310	6.9	17.8	4.1	1.2	3.0	N/A	<0.1									
3	0.869	0.688	713	N/A	N/A			7.2	18.0			3.1	N/A										
4	0.917	0.686	757	N/A	N/A			7.2	17.8			3.3	N/A										
5	0.879	0.903	1178	N/A	N/A			7.3	17.3			3.4	N/A		<1.8	1530	7.6	21.3	8.5	1540	7.3	19.9	9.4
6	0.867	0.842	1063	N/A	N/A			7.3	17.2			3.1	N/A										
7	0.848	0.828	1046	N/A	N/A			7.2	17.5			3.2	N/A										
8	0.852	0.897	1170	N/A	N/A			7.2	17.2			3.4	N/A										
9	0.851	0.809	1034	N/A	N/A	260	320	7.0	17.2	8.0	1.0	2.8	N/A	<0.1									
10	0.896	0.817	832	N/A	N/A			7.2	17.8			2.8	N/A										
11	0.920	0.815	797	N/A	N/A			7.0	17.1			2.5	N/A										
12	0.893	0.813	805	N/A	N/A			7.2	17.7			3.2	N/A										
13	0.869	0.961	1210	N/A	N/A			7.2	17.8			2.6	N/A		<1.8	1340	7.5	20.2	8.9	1350	8.5	20.7	13.2
14	0.870	0.807	1034	N/A	N/A			7.2	17.7			2.1	N/A										
15	0.851	0.801	1037	N/A	N/A			7.1	17.3			2.0	N/A										
16	0.846	0.691	776	N/A	N/A	470	280	7.2	17.0	6.0	1.2	2.4	N/A	<0.1									
17	0.877	0.760	906	N/A	N/A			7.1	17.2			0.8	N/A										
18	0.905	0.758	840	N/A	N/A			7.0	16.8			3.6	N/A										
19	0.880	0.855	1093	N/A	N/A			7.0	16.8			3.3	N/A		<1.8								
20	0.854	0.805	1096	N/A	N/A			7.2	16.1			2.5	N/A										
21	0.859	0.822	1077	N/A	N/A			7.2	16.7			3.1	N/A			830	7.3	16.4	8.6	840	7.2	15.4	7.1
22	0.853	0.844	1143	N/A	N/A			7.3	16.3			2.9	N/A										
23	0.849	0.700	844	N/A	N/A	380	300	7.3	15.5	5.4	1.0	2.9	N/A	<0.1									
24	0.866	0.667	798	N/A	N/A			7.1	16.1			3.2	N/A										
25	0.914	0.668	764	N/A	N/A			7.1	15.7			3.0	N/A										
26	0.872	0.832	1115	N/A	N/A			7.3	15.3			2.9	N/A		<1.8								
27	0.851	0.775	1031	N/A	N/A			7.3	15.2			2.4	N/A			1520	7.2	16.8	10.1	1530	7.7	17.0	10.7
28	0.855	0.786	1049	N/A	N/A			7.2	15.1			2.2	N/A										
29	0.842	0.848	1122	N/A	N/A			7.2	15.1			3.0	N/A										
30	0.847	0.686	985	N/A	N/A	340	280	7.2	14.9	5.9	1.0	2.8	N/A	<0.1									
31	0.869	0.613	781	N/A	N/A			7.2	14.7			2.7	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
1.10	270	ND	0.55	ND	45	58	260

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
140	120	ND	162	0.07

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
8300	1300	ND	1394	1.4

ACUTE TOXICITY Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	N/A
Chloroform	N/A

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	6	36	98	1	7	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_River is low and flow not moving & water at RSW-02 stagnant and a lot of algea

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: November 2020

	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	0.923	0.625	741	N/A	N/A			7.2	14.4			2.5	N/A										
2	0.878	0.216	701	N/A	N/A			7.2	13.6			2.2	N/A		<1.8	13:35	6.9	14.9	10.7	13:50	7.0	13.7	10.5
3	0.849	0.000	0	N/A	N/A					NO DISCHARGE			N/A										
4	0.861	0.627	1319	N/A	N/A			7.0	16.5			2.7	N/A										
5	0.862	0.949	1219	N/A	N/A			7.0	14.9			2.8	N/A										
6	0.881	0.738	1059	N/A	N/A	330	310	7.0	15.1	6.3	1.2	2.6	N/A	<0.1									
7	0.884	0.624	809	N/A	N/A			7.3	14.2			2.4	N/A										
8	0.923	0.614	774	N/A	N/A			7.3	13.7			2.6	N/A										
9	0.875	0.809	1232	N/A	N/A			7.3	13.7			1.7	N/A		<1.8								
10	0.852	0.786	1093	N/A	N/A			7.3	13.1			1.7	N/A			11:10	6.9	13.4	11.0	11:20	7.4	13.0	10.4
11	0.881	0.656	802	N/A	N/A			7.2	13.1			1.7	N/A										
12	0.852	0.844	1157	N/A	N/A			7.3	14.1			1.7	N/A										
13	0.861	0.687	1099	N/A	N/A	360	290	7.3	13.4	4.9	1.0	1.7	N/A	<0.1									
14	0.881	0.681	829	N/A	N/A			7.1	13.3			2.0	N/A										
15	0.928	0.677	849	N/A	N/A			7.3	13.4			1.8	N/A										
16	0.879	0.852	1166	N/A	N/A			7.2	14.0			1.6	N/A		<1.8								
17	0.901	0.718	928	N/A	N/A			7.2	14.5			1.8	N/A			15:30	7.2	15.4	10.1	15:40	7.3	14.9	9.7
18	0.905	0.858	1097	N/A	N/A			7.3	15.3			1.7	N/A										
19	0.885	0.878	1197	N/A	N/A			7.2	14.2			1.4	N/A										
20	0.863	0.607	1007	N/A	N/A	270	290	7.2	13.0	3.1	ND	1.4	N/A	<0.1									
21	0.878	0.869	921	N/A	N/A			7.2	13.2			2.3	N/A										
22	0.914	0.862	945	N/A	N/A			7.2	13.2			2.2	N/A										
23	0.897	0.829	1073	N/A	N/A			7.1	13.1			2.1	N/A		<1.8								
24	0.884	0.802	1189	N/A	N/A			7.2	12.2			1.0	N/A			11:27	6.8	10.9	11.4	11:44	6.9	10.3	10.5
25	0.920	0.669	1046	N/A	N/A	370	320	7.1	11.9	4.9	1.4	1.0	N/A	<0.1									
26	0.941	0.601	836	N/A	N/A			7.3	11.8			1.2	N/A										
27	0.853	0.661	858	N/A	N/A			7.3	12.0			1.2	N/A										
28	0.871	0.657	880	N/A	N/A			7.2	11.9			1.0	N/A										
29	0.925	0.651	816	N/A	N/A			7.3	11.6			1.8	N/A										
30	0.891	0.859	1170	N/A	N/A			7.3	11.9			1.8	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
1.10	280	ND	1.1	ND	45	51	270

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	N/A
Chloroform	N/A

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
130	110	ND	206	0.5

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
5200	910	ND	1250	0.6

BOD & TSS	BOD	BOD	TSS	TSS	TSS
	mg/L	LBS/DAY	% Removal	mg/L	LBS/DAY	% Removal
30 DAY AVERAGE	5	27	99	1	5	100

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____ Remarks:_____

McKINLEYVILLE COMMUNITY SERVICES DISTRICT WASTEWATER MANAGEMENT FACILITY MONITORING DATA

MONTH: December 2020

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	0.854	0.833	1104	N/A	N/A			7.2	12.3			2.1	N/A			15:00	6.6	11.5	11.3	15:10	6.7	10.9	11.2
2	0.864	0.848	1125	N/A	N/A			7.1	11.6			1.9	N/A										
3	0.852	0.889	1219	N/A	N/A			7.2	12.0			2.0	N/A										
4	0.841	0.763	1097	N/A	N/A	420	380	7.2	11.4	5.0	1.6	2.0	N/A	<0.1									
5	0.862	0.741	947	N/A	N/A			7.0	11.9			2.1	N/A										
6	0.907	0.742	841	N/A	N/A			7.0	12.2			2.3	N/A										
7	0.861	0.879	1256	N/A	N/A			7.2	12.2			2.0	N/A		<1.8								
8	0.840	0.798	1105	N/A	N/A			7.2	12.1			1.4	N/A			11:30	6.8	12.7	11.2	11:40	7.0	11.6	11.0
9	0.844	0.828	1096	N/A	N/A			7.3	13.0			1.4	N/A										
10	0.841	0.841	1186	N/A	N/A			7.3	12.1			1.4	N/A										
11	0.855	0.825	1044	N/A	N/A	420	310	7.1	11.7	6.2	1.6	1.3	N/A	<0.1									
12	0.864	0.845	1008	N/A	N/A			7.1	12.3			3.6	N/A										
13	0.970	0.833	984	N/A	N/A			7.1	12.9			3.5	N/A										
14	0.923	0.965	1214	N/A	N/A			7.2	12.3			2.9	N/A		<1.8								
15	0.890	0.925	1127	N/A	N/A			7.2	13.2			2.7	N/A			15:40	6.6	12.6	11.3	15:50	6.8	11.8	11.2
16	0.955	0.901	1198	N/A	N/A			7.1	12.3			2.7	N/A										
17	0.971	0.994	1220	N/A	N/A			7.3	12.6			2.5	N/A										
18	0.916	0.991	1206	N/A	N/A	340	270	7.1	12.0	0.0	1.4	3.4	N/A	<0.1									
19	0.875	1.032	1115	N/A	N/A			7.0	12.4			3.6	N/A										
20	0.894	0.926	1002	N/A	N/A			6.9	13.7			3.4	N/A										
21	0.883	1.097	1292	N/A	N/A			7.1	13.4			1.7	N/A		<1.8								
22	0.871	1.050	1228	N/A	N/A			7.1	13.4			3.3	N/A			11:30	6.6	12.6	11.4	11:40	6.7	12.0	10.5
23	0.863	0.967	1044	N/A	N/A	350	230	7.1	11.9	5.1	1.6	3.0	N/A	<0.1									
24	0.887	1.116	1268	N/A	N/A			7.2	11.3			3.3	N/A										
25	0.850	1.109	1208	N/A	N/A			7.0	12.2			3.6	N/A										
26	0.947	1.106	1116	N/A	N/A			7.1	12.4			3.6	N/A										
27	0.927	1.109	1248	N/A	N/A			7.1	11.5			3.6	N/A										
28	0.882	1.172	1323	N/A	N/A			7.1	10.8			3.6	N/A		<1.8	15:00	6.6	11.5	11.6	15:10	6.9	10.6	11.7
29	0.860	1.059	1239	N/A	N/A			7.2	11.4			2.3	N/A										
30	0.868	1.079	1282	N/A	N/A	400	260	7.1	11.0	6.7	1.6	2.5	N/A	<0.1									
31	0.880	1.026	1237	N/A	N/A			7.2	11.9			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
1.10	260	ND	1.40	ND	44	57	270

ACUTE TOXICITY		
Date	Species	% Survivial
	Rainbow Trout	N/A

Quarterly Tests	Value in ug/l
Bromoform	ND
Chloroform	63.9

MONTHLY RIVER RSW-001

TDS	Hardness	Ammonia	Conductivity	Turbidity
99	87	ND	132	0.1

MONTHLY RIVER RSW-002

TDS	Hardness	Ammonia	Conductivity	Turbidity
110	89	ND	146	0.2

BOD & TSS	BOD mg/L	BOD LBS/DAY	BOD % Removal	TSS mg/L	TSS LBS/DAY	TSS % Removal
30 DAY AVERAGE	5	35	99	2	12	99

EFF-001
REC-001
Quarterly
Permit Exceedance

Signature:_____

Remarks:_____

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing
Average Annual 2020

	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	8.0	14.9	25.0	45	254	186	6.9	13.1	6.7	<0.1	1.55	1.2	2.5	0.0		4.6	2.2	7.0	11.7	11.3	7.0	11.4	11.6
February	8.0	14.4	22.8	49	273	195	7.0	12.7	7.6	<0.1	2.24	1.5	2.4	0.0		5.8	1.6	7.1	13.2	11.4	7.13	12.4	10.6
March	8.0	15.1	24.8	52	260	218	7.1	13.7	8.1	<0.1	2.32	2.1	2.1	0.0		4.4	3.6	7.1	12.5	11.2	7.1	12.5	10.3
April	8.0	15.8	24.8	50	338	263	7.1	16.0	8.7	<0.1	1.10	1.5	1.9	0.0		5.0	3.0	7.3	13.5	11.4	7.28	14.2	10.6
May	8.0	17.5	25.0	53	350	294	7.1	17.9	7.1	<0.1	0.01	1.1	2.3			5.3	2.1	7.1	17.0	10.3	7.15	17.2	9.88
June	8.0	18.7	24.3	59	295	233	7.0	19.5	6.2	<0.1	0.02	1.1	2.4			5.8	1.3	7.3	18.8	10.7	7.34	18.3	10.5
July	7.6	18.8	18.4	57	400	282	7.1	19.4	5.5	<0.1	0.00	0.8	2.5			7.0	1.0	7.4	19.3	9.65	8.0	20.2	9.65
August	7.7	19.9	15.0	57	368	270	7.1	19.3	4.7	<0.1	0.00	0.6	3.3			6.7	1.5	7.8	21.0	9.6	8.35	20.8	10.1
Septembe	7.7	19.98	21.3	64	378	303	7.1	18.2	4.3	<0.1	0.00	0.7	2.8			5.4	1.7	7.4	19.8	8.9	7.62	19.7	8.72
October	7.8	18.9	22.2	59	358	298	7.2	16.7	5.0	<0.1	0.00	0.5	2.8			5.9	1.1	7.4	18.7	9.0	7.68	18.3	10.1
November	7.8	17.2	19.8	62	333	303	7.2	13.5	6.6	<0.1	0.01	0.4	1.8			4.8	1.2	7.0	13.7	10.8	7.2	13.0	10.3
December	7.9	15.6	17.4	56	386	290	7.1	12.2	6.6	<0.1	0.35	0.7	2.6			4.6	1.6	6.6	12.2	11.4	6.8	11.4	11.1
Average	7.9	17.2	21.7	55	295	233	7.1	16.0	6.4	<0.1	0.63	1.0	2.4	0.0		5.4	1.8	7.2	15.9	10.5	7.4	15.8	10.3
Maximum	7.9	17.0	19.8	62	386	303	7.2	13.5	6.6	<0.1	0.35	0.7	2.6	0.0		4.8	1.6	7.0	13.7	11.4	7.2	13.0	11.1
Minimum	7.8	15.6	17.4	56	333	290	7.1	12.2	6.6	<0.1	0.01	0.4	1.8	0.0		4.6	1.2	6.6	12.2	10.8	6.8	11.4	10.3

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

JANUARY 2020

	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	15.3					7.0	12.4	5.7			2.0	2.5	0.00											
2	7.9	15.3		48			7.1	11.9	6.1		2.7	1.3	2.2	0.00				10:00	7	9.7	11.6	10:08	6.9	9.2	11.5
3	8.1	15.0	25	56	240	200	7.0	12.6	7.2	<0.1	2.5	1.2	2.9	0.00		4.3	1.4								
4	8.0	14.8					6.9	12.3	5.3			1.3	2.6	0.00											
5	8.2	14.9					6.9	12.0	6.3			1.4	2.8	0.00											
6	7.6	14.1		28			7.0	11.8	6.5		1.6	1.2	2.3	0.00	<1.8										
7	8.0	14.6		44			7.0	11.5	6.3		1.6	1.3	2.3	0.00				1:45	7	9.8	9.6	2:00	7	9.4	11.4
8	8.1	15.1		52			7.0	12.3	5.9		1.8	1.3	3.2	0.00											
9	7.5	13.9		20			6.9	12.4	6.0		1.7	1.3	2.5	0.00											
10	8.4	15.8	33	68	250	180	6.9	12.4	6.6	<0.1	1.4	1.2	2.4	0.00		2.1	3.2								
11	8.5	14.8					6.8	12.0	6.4			1.3	2.4	0.00											
12	8.3	15.2					6.9	12.0	6.6			1.0	2.3	0.00											
13	7.8	14.8		44			6.9	14.6	7.8		0.8	0.8	2.5	0.00	<1.8										
14	8.1	14.5		50			7.0	11.8	6.9		1.9	1.1	2.5	0.00				2:30	6.8	9.6	12.6	2:40	6.8	10.6	12.3
15	7.7	15.5		40			6.9	14.3	6.3		1.2	0.8	2.6	0.00											
16	7.7	14.3		48			6.9	11.9	7.6		1.2	0.8	2.6	0.00											
17	7.8	14.6	18	24	280	190	6.8	14.1	7.9	<0.1	0.8	1.2	3.1	0.00		4.8	1.8								
18	7.7	13.6					7.0	11.7	7.0			1.2	2.6	0.00											
19	8.0	14.1					7.0	11.5	7.1			1.2	2.5	0.00											
20	7.6	13.5					7.0	12.0	6.9			1.2	2.2	0.00											
21	8.0	16.5		44			6.9	16.8	7.6		1.2	1.2	2.6	0.00	2.0										
22	8.2	15.3		60			6.8	13.3	7.2		1.7	1.3	2.5	0.00				1:20	7.1	14.9	11.4	1:35	7.1	13.8	11.6
23	7.9	14.5		44			6.8	14.6	6.8		1.4	1.1	2.6	0.00											
24	8.1	15.7	24	52	250	180	6.7	14.2	6.7	<0.1	0.1	0.7	1.3	0.00		4.8	2.6								
25	8.3	15.1					6.7	13.5	5.5			0.9	1.6	0.00											
26	8.0	14.6					6.7	13.8	5.7			1.6	2.5	0.00											
27	8.0	15.1		46			6.8	14.9	6.8		1.3	1.0	2.7	0.00	<1.8										
28	7.5	15.1		34			6.8	13.9	6.9		1.3	1.1	2.8	0.00				3:30	7	14.5	11.5	3:40	7	14	11.3
29	8.0	15.2		40			6.9	14.7	8.3		2.2	1.4	2.8	0.00											
30	8.1	15.3		54			6.9	14.2	7.5		2.0	1.3	2.9	0.00											
31	7.9	15.6	25	48	250	180	6.8	14.2	7.3	<0.1	2.1	1.3	2.4	0.00		7.2	2.0								
															MEDIAN										
Average	8.0	14.9	25	45	254	186	6.9	13.1	6.7	<0.1	1.5	1.2	2.5	0.0	<1.8	4.6	2.2	.	7.0	11.7	11.3		7.0	11.4	11.6
Maximum	8.5	16.5	33	68	280	200	7.1	16.8	8.3	<0.1	2.7	2.0	3.2	0.0	2.0	7.2	3.2		7.1	14.9	12.6		7.1	14.0	12.3
Minimum	7.5	13.5	18	20	240	180	6.7	11.5	5.3	<0.1	0.1	0.7	1.3	0.0	<1.8	2.1	1.4		6.8	9.6	9.6		6.8	9.2	11.3

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

FEBRUARY 2020

	INFLUENT						EFFLUENT											RIVER RSW-001				RIVER RSW-002			
Date	pH	Temp	S.S	AMMONIA	BOD	NFR	pH	Temp	D.O.	S.S.	AMMONIA	NTU	CL2 Res	River CL2 Res	Coliform	BOD	NFR	TIME	pH	Temp	D.O.	TIME	pH	Temp	D.O.
1	7.6	14.7					7.0	14.3	6.7			1.5	2.3	0.00											
2	8.0	14.3					7.0	13.5	7.2			1.6	2.4	0.00											
3	8.1	14.9		54			7.0	13.3	7.5		2.2	1.2	2.5	0.00	<1.8			9:30	7.1	9.3	12.2	9:38	7.1	8.9	11.9
4	8.3	15.5		50			7.0	13.3	7.8		1.7	1.2	2.5	0.00											
5	7.5	14.5		62			7.0	12.5	7.6		1.4	1.2	2.8	0.00											
6	8.0	14.1		36			7.0	13.5	7.9		2.7	1.6	2.6	0.00											
7	8.1	14.9	23	34	270	190	7.0	12.9	8.2	<0.1	2.2	1.2	2.4	0.00		6	2.0								
8	8.1	13.3					7.0	12.3	7.5			1.6	2.4	0.00											
9	8.2	13.4					7.0	11.4	7.3			1.5	2.5	0.00											
10	8.1	14.0		50			7.1	12.3	9.9		0.9	1.2	2.1	0.00	2.0										
11	8.2	14.7		56			7.1	12.0	8.5		2.8	1.3	2.6	0.00				3:10	7.1	14.4	10.9	3:20	7.1	12.6	11.3
12	7.7	13.4		36			7.1	12.3	8.5		2.5	1.5	2.5	0.00											
13	8.0	13.9		48			7.0	12.4	8.4		2.3	1.5	2.4	0.00											
14	8.2	14.5	24	56	250	190	7.0	12.1	7.3	<0.1	1.8	1.5	2.4	0.00		4.6	1.2								
15	7.7	13.8					7.0	11.8	7.4			1.7	2.3	0.00											
16	8.3	14.6					6.9	12.5	6.6			1.7	2.2	0.00											
17	7.6	14.0					6.9	12.5	6.4			1.4	2.2	0.00											
18	7.6	13.6		36			7.1	12.5	8.2		1.8	1.1	2.2	0.00	2.0			1:20	7.1	14.2	11.2	1:30	7.2	13.6	9.6
19	8.1	14.8		46			7.0	12.5	7.9		2.6	1.6	2.4	0.00											
20	8.1	14.5		22			7.0	12.5	8.2		2.3	1.5	2.4	0.00											
21	8.4	15.1	16	74	300	190	7.0	12.3	7.4	<0.1	2.7	1.5	2.4	0.00		6.9	1.0								
22	7.9	14.4					6.9	12.9	6.4			1.9	2.3	0.00											
23	7.5	13.8					6.9	12.9	6.6			1.9	2.4	0.00											
24	8.4	15.4		70			7.0	13.1	8.0		0.8	1.1	1.7	0.00	4.5										
25	8.2	15.0		46			7.1	12.8	8.5		2.8	1.8	2.3	0.00				3:40	7.1	14.9	11.3	3:50	7.1	14.4	9.5
26	8.3	14.8		58			7.0	12.2	6.7		3.4	2.0	2.3	0.00											
27	7.6	14.2		38			7.0	13.2	8.0		2.8	1.8	2.3	0.00											
28	8.1	15.3	28	58	270	210	7.0	13.7	7.6	<0.1	2.7	1.8	2.3	0.00		5.8	2.0								
29	8.1	13.8					7.0	11.9	7.0			2.3	2.2	0.00											
															MEDIAN										
Average	8.0	14.4	23	49	273	195	7.0	12.7	7.6	<0.1	2.2	1.5	2.4	0.00	2.0	5.8	1.6	.	7.1	13.2	11.4		7.1	12.4	10.6
Maximum	8.4	15.5	28	74	300	210	7.1	14.3	9.9	<0.1	3.4	2.3	2.8	0.00	4.5	6.9	2.0		7.1	14.9	12.2		7.2	14.4	11.9
Minimum	7.5	13.3	16	22	250	190	6.9	11.4	6.4	<0.1	0.8	1.1	1.7	0.00	<1.8	4.6	1.0		7.1	9.3	10.9		7.1	8.9	9.5

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

MARCH 2020

	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	8.5	14.1					7.0	11.8	7.0			2.3	2.2	0.00											
2	8.2	14.5		54			7.1	11.8	7.7		1.7	1.6	2.0	0.00	<1.8			10:00	7.2	9	11.6	10:10	7.2	10.2	9.9
3	7.8	14.4		40			7.0	12.5	8.0		2.9	2.1	2.3	0.00											
4	8.4	15.1		76			7.1	13.0	8.9		3.3	2.1	2.1	0.00											
5	7.9	15.4		16			7.0	13.1	7.1		2.5	1.4	2.4	0.00											
6	7.9	14.6	19	48	260	190	7.1	13.8	7.9	<0.1	3.1	1.9	1.8	0.00		3.2	2.6								
7	8.1	15.3					7.0	13.6	7.4			2.4	2.0	0.00											
8	8.1	14.6					7.0	13.0	7.5			2.2	2.1	0.00											
9	8.3	15.3		58			7.2	13.6	8.2		3.2	2.2	2.1	0.00	<1.8										
10	8.3	15.1		62			7.1	13.8	8.1		2.6	2.1	2.1	0.00				2:50	7	14.9	11.1	3:00	7.1	13.9	10.7
11	8.0	15.6		56			7.0	14.2	7.4		2.4	2.0	2.0	0.00											
12	8.0	15.3		60			7.0	14.2	7.8		2.2	1.9	2.1	0.00											
13	8.0	14.8	28	66	270	200	7.1	13.4	8.5	<0.1	3.1	2.5	2.0	0.00		7.2	4.2								
14										No Discharge															
15										No Discharge															
16	7.8	15.3		40						No Discharge															
17	8.4	15.6		80			6.9	13.7	7.7		1.3	1.6	2.2	0.00	<1.8			11:00	7	12.5	11.2	11:10	7	12.5	9.6
18	8.3	15.9		48			7.0	13.2	8.3		2.3	2.1	2.2	0.00											
19	8.5	15.8		70			7.2	13.4	9.4		2.3	2.2	2.2	0.00											
20	7.5	14.3	20	32	290	320	7.0	13.4	8.4	<0.1	2.2	2.1	2.2	0.00		2.4	4.2								
21	8.5	14.8					7.1	13.4	8.1			2.6	2.1	0.00											
22	7.5	14.2					7.0	14.1	7.7			2.6	2.1	0.00											
23	8.1	15.9		56			7.0	14.4	9.4		2.1	2.6	1.8	0.00	<1.8										
24	8.2	16.1		62			7.1	14.9	7.4		2.1	2.2	2.2	0.00				2:50	7.1	13.7	10.9	3:00	7.1	13.5	10.8
25	8.1	15.7		60			7.1	15.3	7.9		2.0	2.2	2.3	0.00											
26	7.5	14.3		34			7.1	13.4	8.5		2.1	2.2	2.3	0.00											
27	8.3	15.8	32	40	220	160	7.1	13.8	7.7	<0.1	1.6	2.3	2.2	0.00		4.7	3.2								
28	7.3	14.6					7.1	13.9	8.6			2.2	1.9	0.00											
29	8.5	15.2					7.1	14.0	8.3			2.1	1.8	0.00											
30	7.8	15.2		50			7.1	15.1	9.4		2.2	2.0	1.8	0.00	<1.8										
31	7.5	14.7		38			7.1	15.5	8.3		1.7	1.9	2.1	0.00											
															MEDIAN										
Average	8.0	15.1	25	52	260	218	7.1	13.7	8.1	<0.1	2.3	2.1	2.1	0.0	<1.8	4.4	3.6	.	7.1	12.5	11.2		7.1	12.5	10.3
Maximum	8.5	16.1	32	80	290	320	7.2	15.5	9.4	<0.1	3.3	2.6	2.4	0.0	<1.8	7.2	4.2		7.2	14.9	11.6		7.2	13.9	10.8
Minimum	7.3	14.1	19	16	220	160	6.9	11.8	7.0	<0.1	1.3	1.4	1.8	0.0	<1.8	2.4	2.6		7.0	9.0	10.9		7.0	10.2	9.6

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

APRIL 2020

	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	14.8		52			7.0	13.8	8.6		1.9	1.7	1.6	0.00											
2	8.4	15.6		64			7.0	13.8	8.9		2.1	1.7	1.8	0.00				1:15	7.6	12.3	11.8	1:25	7.5	11.5	11.9
3	7.4	13.9	20	42	360	250	7.0	13.9	8.4	<0.1	1.8	1.6	1.5	0.00		5.3	2.8								
4	8.4	14.8					7.1	13.7	8.1			1.3	1.6	0.00											
5	8.2	14.4					7.0	14.6	6.4			0.9	1.6	0.00											
6	7.7	14.9		42			7.0	14.4	8.1		0.7	0.9	1.8	0.00	<1.8										
7	8.4	15.4		58			7.1	14.6	8.2		0.7	1.4	1.8	0.00				2:45	7.3	10.8	13.9	2:55	7.4	13.7	10.9
8	7.9	16.7		54			7.0	15.4	8.2		0.8	1.2	1.6	0.00											
9	8.1	15.7		66			6.9	15.4	8.6		0.9	1.4	1.6	0.00											
10	7.5	14.5	35	40	310	230	7.0	15.7	8.4	<0.1	1.0	1.6	1.7	0.00		4.6	3.2								
11	8.1	15.1					7.0	15.3	8.3			1.6	1.5	0.00											
12	8.4	15.3					7.0	15.1	8.6			1.6	1.5	0.00											
13	8.5	16.0		64			7.0	15.6	8.8		0.0	1.0	1.2	0.00											
14	8.4	16.0		66			7.1	16.0	8.7		0.7	1.3	2.0	0.00	<1.8			10:45	6.9	14.4	10.4	11:00	6.9	14.9	9.5
15	7.8	15.9		52			7.0	15.9	8.8		0.0	0.8	0.8	0.00											
16	8.2	16.7		64			7.1	16.5	8.5		1.7	1.7	2.7	0.00											
17	7.4	15.2	22	42	340	250	7.2	16.7	8.7	<0.1	1.4	1.9	2.7	0.00		5.4	3.6								
18	8.3	16.0					7.2	16.1	8.2			1.7	2.9	0.00											
19	8.0	15.8					7.2	15.9	8.3			2.0	2.6	0.00											
20	8.2	16.1		64			7.3	16.3	9.3		1.9	1.7	2.8	0.00	<1.8										
21	7.7	16.0		40			7.2	16.7	8.7		1.7	1.8	2.8	0.00				2:00	7.3	14.9	11	2:10	7.2	15.2	11.1
22	7.4	15.6		36			7.2	16.9	8.7		1.7	1.7	2.9	0.00											
23	8.2	16.7		52			7.3	17.4	8.0		1.4	1.7	2.0	0.00											
24	8.3	16.2	22	44	340	320	7.3	16.3	9.8	<0.1	1.0	1.7	2.2	0.00		4.7	2.4								
25	7.5	15.7					7.3	17.3	12.8			2.2	0.9	0.00											
26	8.5	17.1					7.3	17.6	10.9			1.4	1.8	0.00											
27	7.8	16.8		50			7.5	18.2	10.9		0.3	1.5	1.2	0.00											
28	7.4	16.2		32			7.3	18.2	8.9		1.4	1.7	2.2	0.00	<1.8			8:00	7.5	15	9.9	8:10	7.4	15.5	9.7
29	7.5	16.2		32										No Discharge											
30	7.5	19.0		44			7.0	19.3	6.9		0.1	1.4	0.8	Land Discharge											
															MEDIAN										
Average	8.0	15.8	25	50	338	263	7.1	16.0	8.7	<0.1	1.1	1.5	1.9	0.0	<1.8	5.0	3.0	.	7.3	13.5	11.4		7.3	14.2	10.6
Maximum	8.5	19.0	35	66	360	320	7.5	19.3	12.8	<0.1	2.1	2.2	2.9	0.0	<1.8	5.4	3.6		7.6	15.0	13.9		7.5	15.5	11.9
Minimum	7.4	13.9	20	32	310	230	6.9	13.7	6.4	<0.1	0.0	0.8	0.8	0.0	<1.8	4.6	2.4		6.9	10.8	9.9		6.9	11.5	9.5

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

MAY 2020

	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	7.5	16.4	25	42	320	290	7.2	17.6	7.6	<0.1	0.0	1.4	0.8	N/A		3.8	3								
2	8.5	17.2					7.1	18.4	7.3			1.1	1.4	N/A											
3	8.5	17.1					7.0	17.4	6.9			0.9	2.3	N/A											
4	8.3	17.2		66			7.2	17.0	8.5		0.0	0.9	2.5	N/A	<1.8			14:00	7.4	17.6	10	14:15	7.5	17.7	9.8
5	7.8	17.7		54			7.2	18.6	8.1		0.0	0.7	2.1	N/A											
6	8.3	19.2		70			7.2	17.7	8.3		0.0	0.7	2.5	N/A											
7	7.9	17.2		48			7.1	17.9	7.6		0.0	0.8	2.7	N/A											
8	7.7	16.9	22	36	330	270	6.9	17.8	6.9	<0.1	0.0	1.0	2.7	N/A		6.2	1.8								
9	8.3	17.5					7.1	18.0	6.9			0.9	2.5	N/A											
10	7.6	17.2					7.1	18.1	6.7			1.0	2.7	N/A											
11	7.8	17.6		52			7.2	18.9	8.2		0.0	1.0	2.3	N/A	<1.8										
12	8.2	16.5		64			6.9	18.0	5.7		0.0	1.3	2.6	N/A				9:50	7	17	9.8	10:00	7.1	17.4	9.5
13	8.2	16.5		58			7.0	17.6	6.5		0.0	1.5	2.5	N/A											
14	8.3	17.6		60			7.1	14.7	7.2		0.0	1.6	2.1	N/A											
15	7.8	17.6	16	32	310	240	6.9	18.1	6.3	<0.1	0.0	1.3	1.7	N/A		5.3	2.4								
16	7.6	16.9					7.2	17.7	6.6			1.2	1.9	N/A											
17	8.1	17.0					7.2	18.0	6.1			1.1	1.8	N/A											
18	7.9	17.9		54			7.3	17.6	7.2		0.0	1.1	1.6	N/A	12.0										
19	7.8	17.0		42			7.0	17.4	7.2		0.0	1.3	2.7	N/A				11:20	6.9	16.4	10.1	11:30	6.9	16.6	10
20	7.9	17.5		46			7.1	17.8	7.2		0.0	1.1	2.9	N/A											
21	8.2	18.2		72			7.0	18.1	7.7		0.0	1.0	2.8	N/A											
22	7.4	16.3	24	34	250	230	6.9	17.8	7.7	<0.1	0.0	1.3	2.5	N/A		5	1.8								
23	8.4	17.6					7.1	17.9	7.6			1.0	2.7	N/A											
24	8.1	17.2					7.1	18.1	7.7			1.0	2.7	N/A											
25	8.3	17.6					7.1	18.2	7.0			1.2	2.2	N/A											
26	7.9	19.0		54			7.0	18.9	7.4		0.0	1.1	2.5	N/A	<1.8			8:35	7	16.8	11.1	8:45	7.1	16.9	10.2
27	8.3	18.2		72			7.0	18.4	7.3		0.0	1.1	1.7	N/A											
28	8.0	17.7		56			6.9	19.0	7.2		0.0	1.1	3.2	N/A											
29	8.0	18.9	38	50	540	440	6.9	19.5	6.2	<0.1	0.0	1.0	2.0	N/A		6	1.6								
30	7.9	17.1					6.9	18.4	6.2			1.2	2.0	N/A											
31	8.2	17.6					6.9	17.8	5.5			1.1	1.8	N/A											
															MEDIAN										
Average	8.0	17.5	25	53	350	294	7.1	17.9	7.1	<0.1	0.0	1.1	2.3	0.0	<1.8	5.3	2.1	.	7.1	17.0	10.3		7.2	17.2	9.9
Maximum	8.5	19.2	38	72	540	440	7.3	19.5	8.5	<0.1	0.0	1.6	3.2	0.0	12	6.2	3.0		7.4	17.6	11.1		7.5	17.7	10.2
Minimum	7.4	16.3	16	32	250	230	6.9	14.7	5.5	<0.1	0.0	0.7	0.8	0.0	<1.8	3.8	1.6		6.9	16.4	9.8		6.9	16.6	9.5

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

JUNE 2020

	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	18.1		64			7.0	18.6	6.2		0.1	1.0	2.1	N/A	<1.8			13:20	7	18.2	9.8	13:30	7.2	17.6	10
2	8.2	17.8		54			7.0	19.3	7.1		0.2	0.9	2.0	N/A											
3	7.8	18.3		50			7.0	18.9	6.8		0.0	0.8	3.8	N/A											
4	8.2	18.1		72			7.0	18.7	7.0		0.0	1.0	2.5	N/A											
5	8.2	17.1	24	66	280	220	7.2	18.8	7.7	<.01	0.0	0.9	2.7	N/A		6.7	1.4								
6	8.3	18.0					6.9	18.9	5.8			0.9	3.2	N/A											
7	8.4	18.1					7.0	18.5	5.8			1.0	2.6	N/A											
8	8.1	19.1		72			7.0	18.9	7.2		0.0	1.0	2.4	N/A	<1.8										
9	8.4	18.2		78			7.1	18.6	6.0		0.0	1.0	2.4	N/A				16:20	7.2	18.1	11	16:30	7.2	17.9	10.8
10	7.7	15.3		46			7.1	19.9	7.7		0.0	0.9	2.4	N/A											
11	8.1	19.7		70			7.1	20.3	6.3		0.0	1.0	2.3	N/A											
12	8.0	18.1	17	54	340	230	7.2	19.5	7.9	<0.1	0.0	0.9	2.3	N/A		5.3	1.6								
13	8.4	18.5					7.0	19.2	5.7			0.9	2.9	N/A											
14	8.1	19.1					7.0	19.1	5.3			0.9	2.5	N/A											
15	7.8	19.5		52			6.9	19.8	6.6		0.0	0.8	2.5	N/A	<1.8										
16	8.1	20.2		76			6.9	19.5	6.0		0.0	0.7	2.3	N/A				13:20	7.4	19.4	10.7	13:40	7.4	18.7	10.5
17	8.1	19.1		62			6.9	19.6	6.6		0.0	0.8	2.4	N/A											
18	7.7	18.7		56			6.9	19.6	6.1		0.0	1.0	2.4	N/A											
19	8.1	19.3	22	36	280	330	6.8	20.1	5.1	<0.1	0.0	0.7	2.2	N/A		4.9	1								
20	8.2	18.8					7.0	19.1	4.6			1.1	2.6	N/A											
21	7.4	18.1					6.8	19.1	4.8			1.1	2.4	N/A											
22	8.2	19.5		74			7.0	19.8	7.0		0.0	1.2	2.5	N/A	<1.8										
23	8.0	20.6		58			6.9	20.8	5.7		0.0	1.0	1.6	N/A				14:45	7.4	19.8	11.1	14:55	7.5	19.5	11
24	7.5	18.3		38			6.9	20.5	5.5		0.0	1.0	1.9	N/A											
25	7.8	19.6		60			7.0	20.7	5.9		0.0	0.9	2.3	N/A											
26	8.2	19.9	34	64	280	150	7.1	19.9	7.1	<0.1	0.0	1.1	2.2	N/A		6.2	1								
27	8.0	18.9					7.0	19.9	5.4			1.2	1.9	N/A											
28	8.3	18.8					7.1	19.9	4.6			1.9	1.5	N/A											
29	8.0	19.1		60			7.0	20.0	5.5		0.0	2.1	2.4	N/A	<1.8										
30	7.5	20.2		46			7.1	19.6	6.2		0.0	1.8	1.5	N/A				16:15	7.5	18.4	11	13:25	7.4	17.9	10.4
															MEDIAN										
Average	8.0	18.7	24	59	295	233	7.0	19.5	6.2	<0.1	0.0	1.1	2.4	N/A	<1.8	5.8	1.3	.	7.3	18.8	10.7		7.3	18.3	10.5
Maximum	8.4	20.6	34	78	340	330	7.2	20.8	7.9	<0.1	0.2	2.1	3.8	0.0	<1.8	6.7	1.6		7.5	19.8	11.1		7.5	19.5	11.0
Minimum	7.4	15.3	17	36	280	150	6.8	18.5	4.6	<0.1	0.0	0.7	1.5	0.0	<1.8	4.9	1.0		7.0	18.1	9.8		7.2	17.6	10.0

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

JULY 2020

	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	7.5	18.9		54			6.9	19.4	4.4		0.0	1.7	1.2	N/A											
2	7.8	18.2	29	70	270	170	7.0	19.2	6.8	<0.1	0.0	1.8	1.8	N/A		6.2	1.2								
3	7.4	18.4					7.1	19.4	4.0			1.6	1.9	N/A											
4	7.7	18.4					7.1	19.5	4.4			1.6	1.5	N/A											
5	7.6	18.4					7.0	19.3	3.9			1.4	1.6	N/A											
6	7.8	18.3		62			7.2	18.7	6.6		0.1	1.5	1.9	N/A	<1.8			15:00	7.6	18.7	9.6	15:10	9	21	11.4
7	7.9	18.9		76			7.2	18.7	6.5		0.0	1.6	3.1	N/A											
8	7.7	18.7		58			7.3	18.7	6.1		0.0	1.5	3.2	N/A											
9	7.6	18.7		60			7.1	19.0	6.4		0.0	1.3	3.4	N/A											
10	7.9	18.4	23	66	490	330	7.2	19.2	5.9	<0.1	0.0	1.1	3.3	N/A		6.4	1								
11	7.4	18.5					7.1	19.4	4.6			0.8	1.9	N/A											
12	7.5	18.9					7.1	19.6	4.6			0.7	1.6	N/A											
13	7.7	18.7		58			7.2	19.2	6.6		0.0	0.6	1.7	N/A	<1.8										
14	7.8	18.3		62			7.3	18.4	5.9		0.0	0.7	3.4	N/A				1130	7.1	19.5	9.3	1140	7.7	20	9.3
15	7.5	19.0		50			7.1	19.4	6.0		0.0	0.7	2.7	N/A											
16	7.7	18.6		66			7.2	19.1	6.7		0.0	0.8	2.7	N/A											
17	7.5	19.0	19	48	540	310	7.2	19.8	6.4	<0.1	0.0	0.5	2.8	N/A		6.2	1.4								
18	7.5	19.1					7.1	20.2	4.4			0.4	2.5	N/A											
19	7.5	19.1					7.1	20.2	4.4			0.4	2.4	N/A											
20	7.9	19.2		72			7.2	19.0	5.3		0.0	0.5	2.6	N/A	<1.8										
21	7.6	18.7		38			7.1	19.5	5.7		0.0	0.5	3.3	N/A				1425	7.2	19.1	10.2	1440	7.6	20.8	9
22	7.7	19.1		54			7.2	19.6	7.5		0.0	0.7	2.6	N/A											
23	7.7	19.2		60			7.1	19.7	5.2		0.0	0.4	2.4	N/A											
24	7.8	19.2	9	42	280	250	7.1	19.8	4.8	<0.1	0.0	0.3	2.3	N/A		6.3	0								
25	7.4	19.1					7.0	19.6	4.0			0.4	3.0	N/A											
26	7.4	19.1					7.0	19.7	3.8			0.4	3.0	N/A											
27	7.6	18.3		60			7.1	18.6	7.2		0.0	0.4	2.8	N/A	<1.8										
28	7.8	19.3		66			7.3	19.1	7.7		0.0	0.5	3.0	N/A				1110	7.5	19.8	9.5	1120	7.7	18.8	8.9
29	7.5	19.2		44			7.0	19.9	4.0		0.0	0.4	2.8	N/A											
30	7.6	19.1		44			7.1	19.6	5.8		0.0	0.4	2.7	N/A											
31	7.5	19.2	12	38	420	350	7.0	19.8	5.1	<0.1	0.0	0.7	2.5	N/A		9.7	1.4								
															MEDIAN										
Average	7.6	18.8	18	57	400	282	7.1	19.4	5.5	<0.1	0.0	0.8	2.5	0.0	<1.8	7.0	1.0	.	7.4	19.3	9.7		8.0	20.2	9.7
Maximum	7.9	19.3	29	76	540	350	7.3	20.2	7.7	<0.1	0.1	1.8	3.4	0.0	<1.8	9.7	1.4		7.6	19.8	10.2		9.0	21.0	11.4
Minimum	7.4	18.2	9	38	270	170	6.9	18.4	3.8	<0.1	0.0	0.3	1.2	0.0	<1.8	6.2	0.0		7.1	18.7	9.3		7.6	18.8	8.9

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

AUGUST 2020

	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	7.5	19.3					7.0	19.9	3.8			0.5	2.0												
2	7.6	19.4					7.0	19.9	4.6			0.5	2.0												
3	7.8	20.0		64			7.2	19.6	6.2		0.0	0.5	1.7		2			15:20	8.3	22.8	11.6	15:30	8.6	22.6	10.9
4	7.6	19.6		64			7.1	19.7	5.7		0.0	0.5	2.7												
5	7.6	19.5		50			7.1	19.7	5.3		0.0	0.5	3.1												
6	7.6	19.7		64			7.0	19.6	5.6		0.0	0.5	2.8												
7	7.7	19.8	4	36	390	250	7.1	19.9	3.9	<0.1	0.0	0.6	3.0			8.5	1.2								
8	7.3	19.8					7.1	19.4	4.6			0.5	2.3												
9	7.4	19.9					7.1	19.0	3.9			0.5	2.5												
10	7.8	19.9		62			7.1	18.3	5.0		0.0	0.5	2.5		<1.8										
11	7.7	19.4		62									Shut Down to Clean CCB					10:20	7.6	19.5	9.9	10:30	8.3	19.6	9.4
12	7.8	19.6		66			6.9	19.7	7.8		0.0	0.8	4.1												
13	7.7	19.5		58			7.1	18.8	5.1		0.0	0.5	5.8												
14	7.9	20.2	17	38	330	240	7.2	19.6	3.3	<0.1	0.0	0.7	2.8			6.9	1.2								
15	7.4	20.6					7.0	20.0	4.6			0.4	4.7												
16	7.4	20.5					7.0	20.3	5.6			0.4	4.2												
17	7.7	20.2		70			7.0	19.3	4.8		0.0	0.5	4.0		<1.8										
18	7.7	19.7		52			7.0	19.3	5.4		0.0	0.5	4.3					14:40	7.6	22.2	8.6	14:50	8.7	22.3	11.4
19	7.9	19.8		66			7.1	19.1	5.6		0.0	0.7	3.8												
20	7.8	20.1		60			7.1	19.3	5.4		0.0	0.6	3.3												
21	7.5	20.6	20	40	380	310	6.9	20.0	4.1	<0.1	0.0	0.6	3.2			6.1	1.6								
22	7.4	20.3					6.9	19.8	4.3			0.5	4.1												
23	7.5	19.9					7.0	19.5	3.9			0.5	3.7												
24	8.0	19.7		72			7.2	19.0	5.4		0.0	0.6	3.3		<1.8										
25	7.6	19.7		44			7.0	19.0	4.0		0.0	0.8	4.1												
26	7.7	19.8		60			7.0	18.9	4.3		0.0	0.7	3.4					10:30	7.6	19.6	8.3	10:40	7.8	18.5	8.8
27	7.8	19.6		54			6.9	18.9	3.4		0.0	0.8	3.6												
28	7.9	20.7	19	46	370	280	7.1	18.8	4.1	<0.1	0.0	0.7	2.7			5.3	1.8								
29	7.7	19.6					7.1	18.5	3.3			0.5	2.8												
30	7.6	19.6					7.1	18.5	3.3			0.6	2.4												
31	8.0	20.5		70			7.2	18.5	4.7		0.0	0.4	2.7												
															MEDIAN										
Average	7.7	19.9	15	57	368	270	7.1	19.3	4.7	<0.1	0.0	0.6	3.3	0.0	<1.8	6.7	1.5	.	7.8	21.0	9.6		8.4	20.8	10.1
Maximum	8.0	20.7	20	72	390	310	7.2	20.3	7.8	<0.1	0.0	0.8	5.8	0.0	2	8.5	1.8		8.3	22.8	11.6		8.7	22.6	11.4
Minimum	7.3	19.3	4	36	330	240	6.9	18.3	3.3	<0.1	0.0	0.4	1.7	0.0	<1.8	5.3	1.2		7.6	19.5	8.3		7.8	18.5	8.8

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

SEPTEMBER 2020

	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	19.2		70			7.2	17.9	5.1		0.0	0.4	3.0	N/A				14:30	7.6	19.9	9	14:45	8	19.9	10.4
2	7.9	19.7		68			7.1	18.2	5.6		0.0	0.5	2.8	N/A											
3	7.9	19.7		70			7.1	18.1	4.8		0.0	0.5	3.0	N/A											
4	7.7	19.8	21	42	360	300	7.0	18.3	3.8	<0.1	0.0	0.6	2.5	N/A		4.9	1.2								
5	7.6	19.8					7.1	18.1	4.8			0.6	0.7	N/A											
6	7.4	20.0					7.1	17.7	2.9			0.5	4.7	N/A											
7	7.6	19.9					7.2	17.6	3.2			0.5	4.6	N/A											
8	7.9	19.9		72			7.2	17.2	4.7		0.0	0.4	4.9	N/A	<1.8										
9	7.9	18.7		68			7.3	18.3	4.4		0.1	0.5	3.2	N/A				8:20	7.1	17.8	8.5	8:30	7.2	17	7.5
10	8.0	19.9		64			7.2	18.1	4.9		0.0	0.5	3.6	N/A											
11	7.8	19.5	30	54	380	300	7.1	17.6	3.0	<0.1	0.0	0.5	3.3	N/A		7.3	1.4								
12	7.6	19.5					7.1	17.1	3.1			0.5	3.3	N/A											
13	7.6	19.2					7.2	16.7	3.3			0.5	2.7	N/A											
14	7.8	19.5		68			7.2	16.8	5.0		0.0	0.4	3.0	N/A	<1.8										
15	7.9	20.2		66			7.2	17.8	4.3		0.0	0.4	2.9	N/A											
16	7.7	21.8		64			7.0	19.6	4.4		0.0	0.4	2.7	N/A				14:00	7.5	22.6	9.3	14:10	8	22.7	10.4
17	7.7	20.4		64			7.0	18.8	4.9		0.0	0.4	2.8	N/A											
18	7.7	20.0	12	52	380	340	6.7	15.5	2.6	<0.1	0.0	1.6	1.1	N/A		4.5	3								
19	7.4	19.8					7.0	18.4	4.0			0.6	0.9	N/A											
20	7.4	19.7					7.0	18.4	4.5			0.6	0.7	N/A											
21	7.8	20.2		72			7.1	18.8	4.8		0.0	0.7	1.6	N/A	<1.8										
22	7.9	20.6		64			6.9	18.6	4.3		0.0	0.9	1.4	N/A				8:20	7.5	19.6	8.2	8:30	7.4	19.1	6.8
23	7.8	19.9		64			7.0	19.1	5.1		0.0	1.3	1.2	N/A											
24	7.8	21.3		62			6.9	19.7	4.9		0.0	2.4	1.1	N/A											
25	7.7	19.5	22	70	390	270	7.1	19.1	5.5	<0.1	0.0	1.0	3.1	N/A		4.9	1								
26	7.4	20.1					7.0	19.2	4.3			0.9	3.2	N/A											
27	7.6	19.9					7.1	19.0	3.6			0.8	3.1	N/A											
28	8.0	20.9		64			7.1	19.2	3.7		0.0	0.9	4.1	N/A	<1.8										
29	7.8	20.2		56			7.0	18.5	5.6		0.0	0.7	3.7	N/A				15:10	7.4	19.2	9.5	15:20	7.5	19.7	8.5
30	7.9	20.7		62			7.2	19.0	5.2		0.0	0.7	4.5	N/A											
															MEDIAN										
Average	7.7	20.0	21	64	378	303	7.1	18.2	4.3	<0.1	0.0	0.7	2.8	0.0	<1.8	5.4	1.7	.	7.4	19.8	8.9		7.6	19.7	8.7
Maximum	8.0	21.8	30	72	390	340	7.3	19.7	5.6	<0.1	0.1	2.4	4.9	0.0	<1.8	7.3	3.0		7.6	22.6	9.5		8.0	22.7	10.4
Minimum	7.4	18.7	12	42	360	270	6.7	15.5	2.6	<0.1	0.0	0.4	0.7	0.0	<1.8	4.5	1.0		7.1	17.8	8.2		7.2	17.0	6.8

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

OCTOBER 2020

	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	19.8		68			7.3	17.8	6.0		0.0	0.8	3.2	N/A											
2	7.8	19.8	25	46	340	310	6.9	17.8	4.5	<0.1	0.0	0.8	3.0	N/A		4.1	1.2								
3	7.7	19.3					7.2	18.0	4.2			0.7	3.1	N/A											
4	7.7	19.3					7.2	17.8	4.6			0.6	3.3	N/A											
5	7.5	18.9		62			7.3	17.3	6.8		0.0	0.6	3.4	N/A	<1.8			1530	7.6	21.3	8.5	1540	7.3	19.9	9.4
6	7.9	19.2		60			7.3	17.2	4.8		0.0	0.5	3.1	N/A											
7	7.8	19.3		58			7.2	17.5	5.2		0.0	0.5	3.2	N/A											
8	7.9	19.5		64			7.2	17.2	4.3		0.0	0.5	3.4	N/A											
9	7.9	19.3	22	40	260	320	7.0	17.2	4.2	<0.1	0.0	0.6	2.8	N/A		8	1								
10	7.6	19.6					7.2	17.8	4.4			0.7	2.8	N/A											
11	7.5	16.6					7.0	17.1	3.8			0.8	2.5	N/A											
12	7.8	19.6					7.2	17.7	3.9			0.7	3.2	N/A											
13	7.9	19.5		56			7.2	17.8	5.6		0.0	0.7	2.6	N/A	<1.8			1340	7.5	20.2	8.9	1350	8.5	20.7	13.2
14	8.0	19.9		70			7.2	17.7	4.3		0.0	0.8	2.1	N/A											
15	7.9	19.4		68			7.1	17.3	5.2		0.0	0.9	2.0	N/A											
16	7.8	19.2	21	42	470	280	7.2	17.0	3.9	<0.1	0.0	0.8	2.4	N/A		6	1.2								
17	7.8	19.1					7.1	17.2	3.6			0.5	0.8	N/A											
18	7.8	19.0					7.0	16.8	3.6			0.4	3.6	N/A											
19	7.9	18.4		58			7.0	16.8	6.4		0.0	0.4	3.3	N/A	<1.8										
20	8.0	18.6		60			7.2	16.1	5.7		0.0	0.3	2.5	N/A											
21	8.0	19.2		72			7.2	16.7	5.8		0.0	0.4	3.1	N/A				830	7.3	16.4	8.6	840	7.2	15.4	7.1
22	7.9	18.7		60			7.3	16.3	5.5		0.0	0.2	2.9	N/A											
23	7.9	18.2	22	48	380	300	7.3	15.5	5.2	<0.1	0.0	0.2	2.9	N/A		5.4	1								
24	7.7	18.7					7.1	16.1	4.2			0.2	3.2	N/A											
25	7.9	18.3					7.1	15.7	4.5			0.3	3.0	N/A											
26	8.0	18.0		64			7.3	15.3	7.4		0.0	0.2	2.9	N/A	<1.8										
27	7.9	18.6		64			7.3	15.2	6.1		0.0	0.2	2.4	N/A				1520	7.2	16.8	10.1	1530	7.7	17	10.7
28	8.0	18.2		60			7.2	15.1	6.6		0.0	0.2	2.2	N/A											
29	8.0	18.8		74			7.2	15.1	5.4		0.0	0.2	3.0	N/A											
30	7.8	18.0	21	46	340	280	7.2	14.9	4.9	<0.1	0.0	0.4	2.8	N/A		5.9	1								
31	7.5	17.5					7.2	14.7	5.7			0.3	2.7	N/A											
															MEDIAN										
Average	7.8	18.9	22	59	358	298	7.2	16.7	5.0	<0.1	0.0	0.5	2.8	0.0	<1.8	5.9	1.1	.	7.4	18.7	9.0		7.7	18.3	10.1
Maximum	8	19.9	25	74	470	320	7.3	18.0	7.4	<0.1	0.0	0.9	3.6	0.0	<1.8	8.0	1.2		7.6	21.3	10.1		8.5	20.7	13.2
Minimum	7.5	16.6	21	40	260	280	6.9	14.7	3.6	<0.1	0.0	0.2	0.8	0.0	<1.8	4.1	ND		7.2	16.4	8.5		7.2	15.4	7.1

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

NOVEMBER 2020

	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	7.5	17.5					7.2	14.4	5.7			0.4	2.5												
2	7.6	15.2		76			7.2	13.6	6.9		0.0	0.3	2.2		<1.8			13:35	6.9	14.9	10.7	13:50	7	13.7	10.5
3	8.0	18.6		68										No Discharge											
4	8.0	19.3		64			7.0	16.5	5.9		0.0	0.6	2.7												
5	7.9	18.5		78			7.0	14.9	6.0		0.0	0.3	2.8												
6	8.0	18.3	19	40	330	310	7.0	15.1	5.1	<0.1	0.0	0.5	2.6			6.3	1.2								
7	7.5	16.7					7.3	14.2	5.8			0.9	2.4												
8	7.5	16.8					7.3	13.7	4.9			0.4	2.6												
9	8.0	17.9		70			7.3	13.7	7.5		0.0	0.3	1.7		<1.8										
10	8.0	17.9		64			7.3	13.1	7.5		0.0	0.3	1.7					11:10	6.9	13.4	11	11:20	7.4	13	10.4
11	7.9	17.1					7.2	13.1	6.1			0.3	1.7												
12	8.1	17.8		72			7.3	14.1	7.4		0.0	0.4	1.7												
13	7.9	17.3	20	38	360	290	7.3	13.4	6.2	<0.1	0.0	0.4	1.7			4.9	1								
14	7.6	17.3					7.1	13.3	6.1			0.4	2.0												
15	7.7	17.4					7.3	13.4	6.5			0.4	1.8												
16	7.8	14.0		54			7.2	14.0	7.5		0.0	0.5	1.6		<1.8										
17	7.9	17.8		58			7.2	14.5	6.9		0.0	0.4	1.8					15:30	7.2	15.4	10.1	15:40	7.3	14.9	9.7
18	8.1	17.5		66			7.3	15.3	7.9		0.0	0.4	1.7												
19	7.9	17.6		58			7.2	14.2	7.3		0.0	0.4	1.4												
20	7.9	16.7	20	42	270	290	7.2	13.0	7.1	<0.1	0.0	0.3	1.4			3.1	ND								
21	7.7	17.0					7.2	13.2	6.2			0.3	2.3												
22	7.6	17.0					7.2	13.2	6.3			0.3	2.2												
23	7.9	16.3		72			7.1	13.1	6.5		0.0	0.3	2.1		<1.8										
24	7.8	16.8		80			7.2	12.2	6.3		0.0	0.6	1.0					11:27	6.8	10.9	11.4	11:44	6.9	10.3	10.5
25	7.6	15.2	20	48	370	320	7.1	11.9	6.4	<0.1	0.0	0.6	1.0			4.9	1.4								
26	7.7	16.9					7.3	11.8	6.6			0.7	1.2												
27	7.7	16.9					7.3	12.0	6.5			0.5	1.2												
28	7.8	16.9					7.2	11.9	6.6			0.6	1.0												
29	7.6	16.6					7.3	11.6	6.8			0.4	1.8												
30	8.2	16.8		76			7.3	11.9	8.0		0.0	0.5	1.8												
															MEDIAN										
Average	7.8	17.2	20	62	333	303	7.2	13.5	6.6	<0.1	0.0	0.4	1.8	0.0	<1.8	4.8	1.2	.	7.0	13.7	10.8		7.2	13.0	10.3
Maximum	8.2	19.3	20	80	370	320	7.3	16.5	8.0	<0.1	0.0	0.9	2.8	0.0	<1.8	6.3	1.4		7.2	15.4	11.4		7.4	14.9	10.5
Minimum	7.5	14.0	19	38	270	290	7.0	11.6	4.9	<0.1	0.0	0.3	1.0	0.0	<1.8	3.1	1.0		6.8	10.9	10.1		6.9	10.3	9.7

McKinleyville Community Services District Wastewater Management Facility Influent & Effluent Testing

DECEMBER 2020

	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	16.0		64			7.2	12.3	7.4		0.0	0.4	2.1					15:00	6.6	11.5	11.3	15:10	6.7	10.9	11.2
2	7.7	15.9		48			7.1	11.6	6.2		0.0	0.3	1.9												
3	8.1	16.0		76			7.2	12.0	7.2		0.0	0.6	2.0												
4	7.8	15.8	19	58	420	380	7.2	11.4	6.5	<0.1	0.0	0.6	2.0			5	1.6								
5	8.0	16.0					7.0	11.9	5.9			0.8	2.1												
6	7.7	16.2					7.0	12.2	5.5			0.6	2.3												
7	8.1	16.1		74			7.2	12.2	7.6		0.0	0.6	2.0		<1.8										
8	7.9	16.6		48			7.2	12.1	8.4		0.0	0.6	1.4					11:30	6.8	12.7	11.2	11:40	7	11.6	11
9	8.0	16.3		70			7.3	13.0	7.5		0.0	0.6	1.4												
10	7.9	16.1		72			7.3	12.1	6.9		0.0	0.6	1.4												
11	7.8	15.9	19	44	420	310	7.1	11.7	6.6	<0.1	0.0	0.6	1.3			6.2	1.6								
12	7.8	15.4					7.1	12.3	6.7			0.6	3.6												
13	7.9	15.7					7.1	12.9	6.4			0.5	3.5												
14	7.9	15.5		62			7.2	12.3	6.2		0.0	0.5	2.9		<1.8										
15	7.9	15.7		56			7.2	13.2	7.5		0.0	0.5	2.7					15:40	6.6	12.6	11.3	15:50	6.8	11.8	11.2
16	7.9	15.4		58			7.1	12.3	5.6		0.0	0.5	2.7												
17	7.9	15.5		52			7.3	12.6	6.2		0.0	0.5	2.5												
18	7.8	15.4	17	44	340	270	7.1	12.0	6.0	<0.1	0.0	0.5	3.4			0	1.4								
19	8.2	15.1					7.0	12.4	5.3			0.6	3.6												
20	7.6	15.7					6.9	13.7	5.4			0.5	3.4												
21	7.6	15.7		38			7.1	13.4	6.5		0.4	0.4	1.7		<1.8										
22	8.0	16.1		56			7.1	13.4	6.9		0.9	0.7	3.3					11:30	6.6	12.6	11.4	11:40	6.7	12	10.5
23	8.0	15.7	14	40	350	230	7.1	11.9	6.1	<0.1	1.1	0.9	3.0			5.1	1.6								
24	7.4	15.0					7.2	11.3	6.2			1.0	3.3												
25	7.7	15.4					7.0	12.2	5.9			0.9	3.6												
26	8.2	15.5					7.1	12.4	6.7			1.0	3.6												
27	8.5	14.9					7.1	11.5	7.1			1.1	3.6												
28	8.0	14.5		70			7.1	10.8	7.6		1.6	0.9	3.6		<1.8			15:00	6.6	11.5	11.6	15:10	6.9	10.6	11.7
29	7.5	14.5		38			7.2	11.4	7.8		2.0	0.9	2.3												
30	8.0	15.3	18	46	400	260	7.1	11.0	6.8	<0.1	0.8	1.0	2.5			6.7	1.6								
31	7.9	15.7					7.2	11.9	5.8			1.0	2.9												
															MEDIAN										
Average	7.9	15.6	17	56	386	290	7.1	12.2	6.6	<0.1	0.3	0.7	2.6	0.0	<1.8	4.6	1.6	.	6.6	12.2	11.4		6.8	11.4	11.1
Maximum	8.5	16.6	19	76	420	380	7.3	13.7	8.4	<0.1	2.0	1.1	3.6	0.0	<1.8	6.7	1.6		6.8	12.7	11.6		7.0	12.0	11.7
Minimum	7.4	14.5	14	38	340	230	6.9	10.8	5.3	<0.1	0.0	0.3	1.3	0.0	<1.8	0.0	1.4		6.6	11.5	11.2		6.7	10.6	10.5

McKinleyville CSD
Waste Water Management Facility 30 Day Average
BOD & TSS Work Sheet 2020

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	
1/3/2020	0.952	1.175	240	4.3	200	1.4	4	42	98	1	14	99	
1/10/2020	1.020	1.233	250	2.1	180	3.2	2	22	99	3	33	98	
1/17/2020	1.154	1.528	280	4.8	190	1.8	5	61	98	2	23	99	
1/24/2020	1.060	1.216	250	4.8	180	2.6	5	49	98	3	26	99	
1/31/2020	1.141	1.294	250	7.2	180	2.0	7	78	97	2	22	99	
							5	50	98	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	
2/7/2020	1.032	1.228	270	6.0	190	2.0	6	61	98	2	20	99	
2/14/2020	0.967	1.177	250	4.6	190	1.2	5	45	98	1	12	99	
2/21/2020	0.920	1.225	300	6.9	190	1.0	7	70	98	1	10	99	
2/28/2020	0.901	1.119	270	5.8	210	2.0	6	54	98	2	19	99	
							6	58	98	2	15	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	
3/6/2020	0.890	1.063	260	3.2	190	2.6	3	28	99	3	23	99	
3/13/2020	0.870	0.403	270	7.2	200	4.2	7	24	97	4	14	98	
3/20/2020	0.926	1.054	290	2.4	320	4.2	2	21	99	4	37	99	
3/27/2020	0.926	1.081	220	4.7	160	3.2	5	42	98	3	29	98	
							4	29	98	4	26	98	**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	
4/3/2020	0.935	1.023	360	5.3	250	2.8	5	45	99	3	24	99	
4/10/2020	0.979	1.111	310	4.6	230	3.2	5	43	99	3	30	99	
4/17/2020	0.927	1.069	340	5.4	250	3.6	5	48	98	4	32	99	
4/24/2020	0.897	0.916	340	4.7	320	2.4	5	36	99	2	18	99	
							5	43	99	3	26	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	
5/1/2020	0.882	0.745	320	3.8	290	3.0	4	24	99	3	19	99	
5/8/2020	0.877	0.804	330	6.2	270	1.8	6	42	98	2	12	99	
5/15/2020	0.874	0.742	310	5.3	240	2.4	5	33	98	2	15	99	
5/22/2020	0.920	0.886	250	5.0	230	1.8	5	37	98	2	13	99	
5/29/2020	0.902	0.964	540	6.0	440	1.6	5	34	98	2	15	99	
							5	34	98	2	15	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	
6/5/2020	0.905	0.94	280	6.7	220	1.4	7	53	98	1	11	99	
6/12/2020	0.891	1.074	340	5.3	230	1.6	5	47	98	2	14	99	
6/19/2020	0.874	1.218	280	4.9	330	1.0	5	50	98	1	10	100	
6/26/2020	0.862	0.936	280	6.2	150	1.0	6	48	98	1	8	99	
							6	50	98	1	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	
7/2/2020	0.852	0.851	270	6.2	170	1.2	6	44	98	1	9	99	
7/10/2020	0.844	0.813	490	6.4	330	1.0	6	43	99	1	7	100	
7/17/2020	0.851	0.800	540	6.2	310	1.4	6	41	99	1	9	100	
7/24/2020	0.821	0.710	280	6.3	250	0.0	6	37	98	0	0	100	
7/31/2020	0.830	0.601	420	9.7	350	1.4	10	49	98	1	7	100	
							7	43	98	1	6	100	**Monthly Avg.**

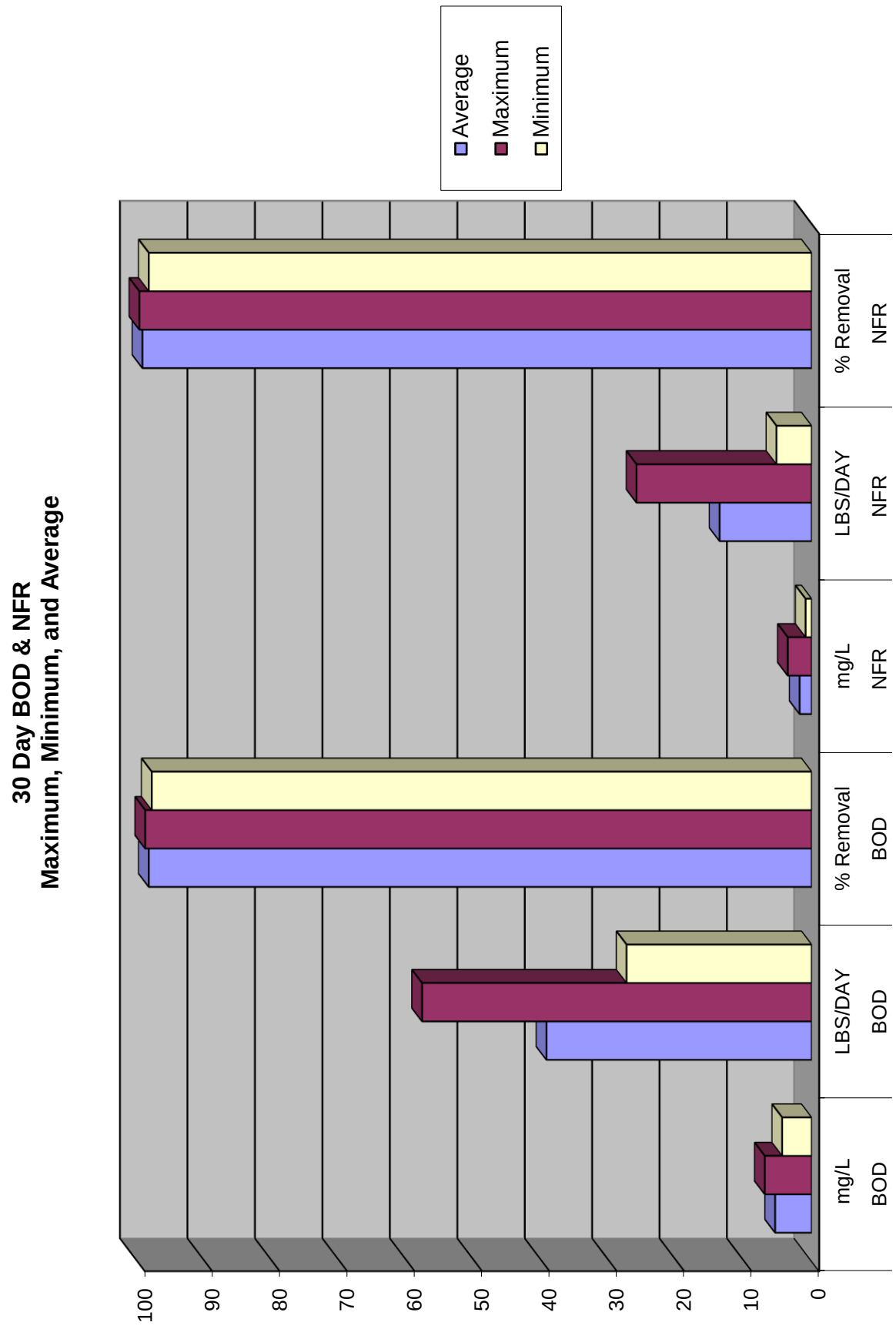
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
8/7/2020	0.827	0.683	390	8.5	250	1.2	9	48	98	1	7	100	
8/14/2020	0.821	0.607	330	6.9	240	1.2	7	35	98	1	6	100	
8/21/2020	0.840	0.655	380	6.1	310	1.6	6	33	98	2	9	99	
8/28/2020	0.816	0.665	370	5.3	280	1.8	5	29	99	2	10	99	
							7	37	98	1	8	99	**Monthly Avg.**

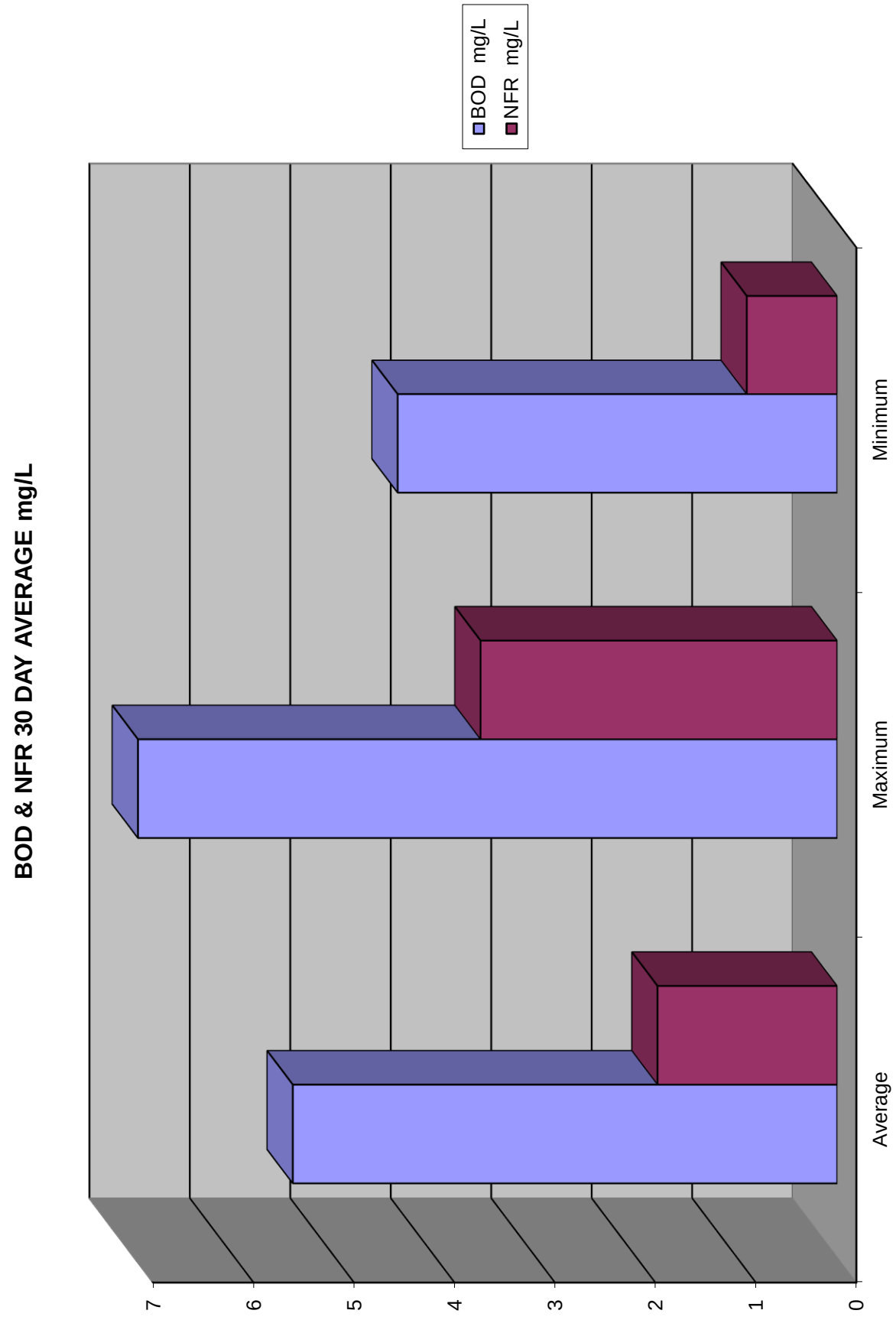
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
9/4/2020	0.851	0.668	360	4.9	300	1.2	5	27	99	1	7	100	
9/11/2020	0.832	0.571	380	7.3	300	1.4	7	35	98	1	7	100	
9/18/2020	0.814	0.763	380	4.5	340	3.0	5	29	99	3	19	99	
9/25/2020	0.818	0.790	390	4.9	270	1.0	5	32	99	1	7	100	
							5	31	99	2	10	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	
10/2/2020	0.857	0.716	340	4.1	310	1.2	4	24	99	1	7	100	
10/9/2020	0.851	0.809	260	8.0	320	1.0	8	54	97	1	7	100	
10/16/2020	0.846	0.691	470	6.0	280	1.2	6	35	99	1	7	100	
10/23/2020	0.849	0.700	380	5.4	300	1.0	5	32	99	1	6	100	
10/30/2020	0.847	0.686	340	5.9	280	1.0	6	34	98	1	6	100	
							6	36	98	1	7	100	**Monthly Avg.**

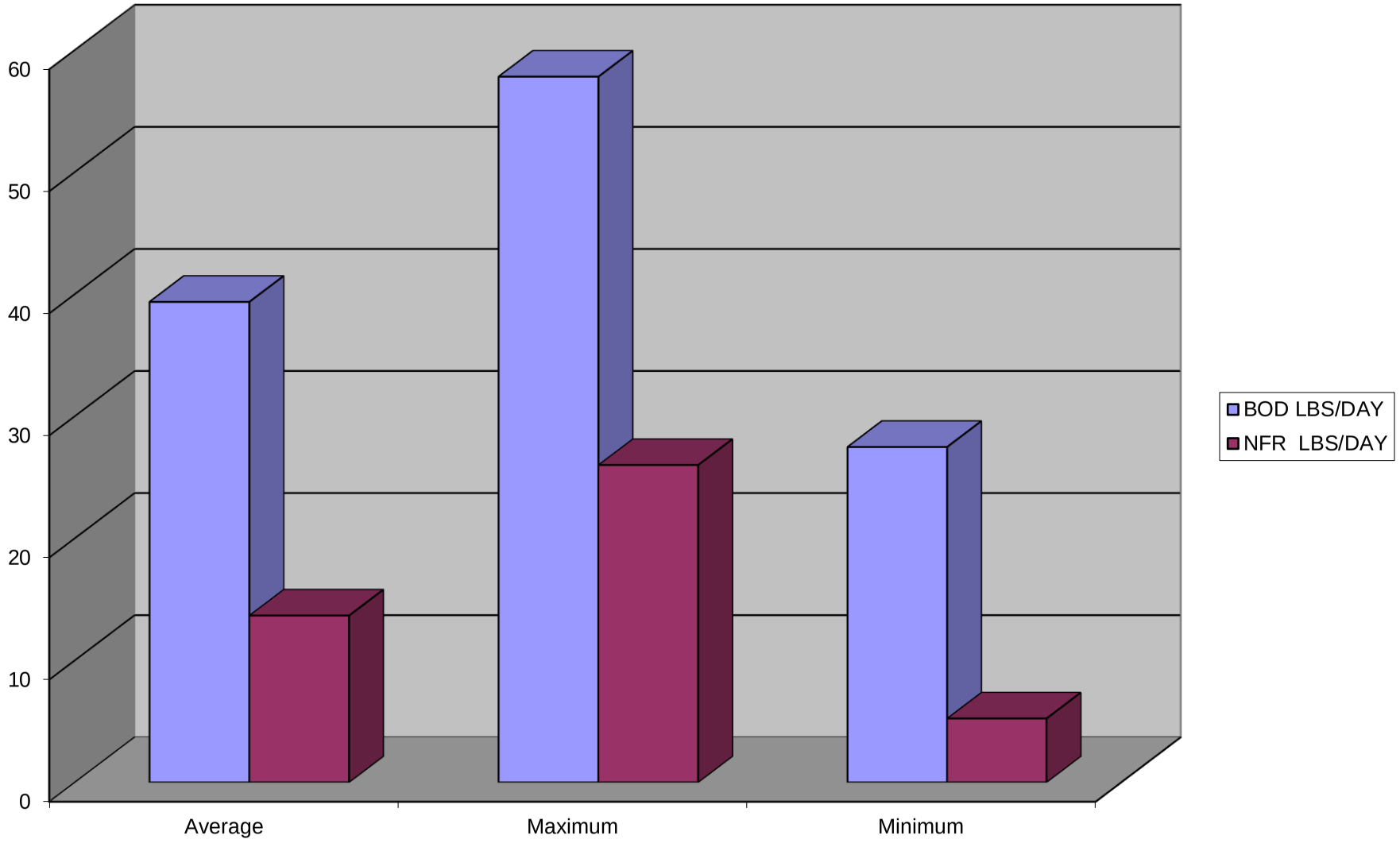
DATE	Influent	Effluent	INF BOD	EFF BOD	INF TSS	EFF TSS	BOD mg/L	BOD lbs/day	BOD % Removal	TSS mg/L	TSS lbs/day	TSS % Removal	
11/6/2020	0.881	0.738	330	6.3	310	1.2	6	39	98	1	7	100	
11/13/2020	0.861	0.687	360	4.9	290	1.0	5	28	99	1	6	100	
11/20/2020	0.863	0.607	270	3.1	290	0.0	3	16	99	0	0	100	
11/25/2020	0.920	0.669	370	4.9	320	1.4	5	27	99	1	8	100	
							5	27	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	
12/4/2020	0.841	0.763	420	5.0	380	1.6	5	32	99	2	10	100	
12/11/2020	0.855	0.825	420	6.2	310	1.6	6	43	99	2	11	99	
12/18/2020	0.916	0.991	340	0.0	270	1.4	0	0	100	1	12	99	
12/23/2020	0.863	0.967	350	5.1	230	1.6	5	41	99	2	13	99	
12/30/2020	0.868	1.079	400	6.7	260	1.6	7	60	98	2	14	99	
							5	35	99	2	12	99	**Monthly Avg.**


30 Day BOD & NFR
Maximum, Minimum, and Average
Average
Maximum
Minimum
100
90
80
70
60
50
40
30
20
10
0
mg/L BOD
LBS/DAY BOD
% Removal BOD
mg/L NFR
LBS/DAY NFR
% Removal NFR


BOD & NFR 30 DAY AVERAGE mg/L
BOD mg/L
NFR mg/L
0
1
2
3
4
5
6
7
Average
Maximum
Minimum

BOD & NFR 30 DAY AVERAGE LBS/DAY

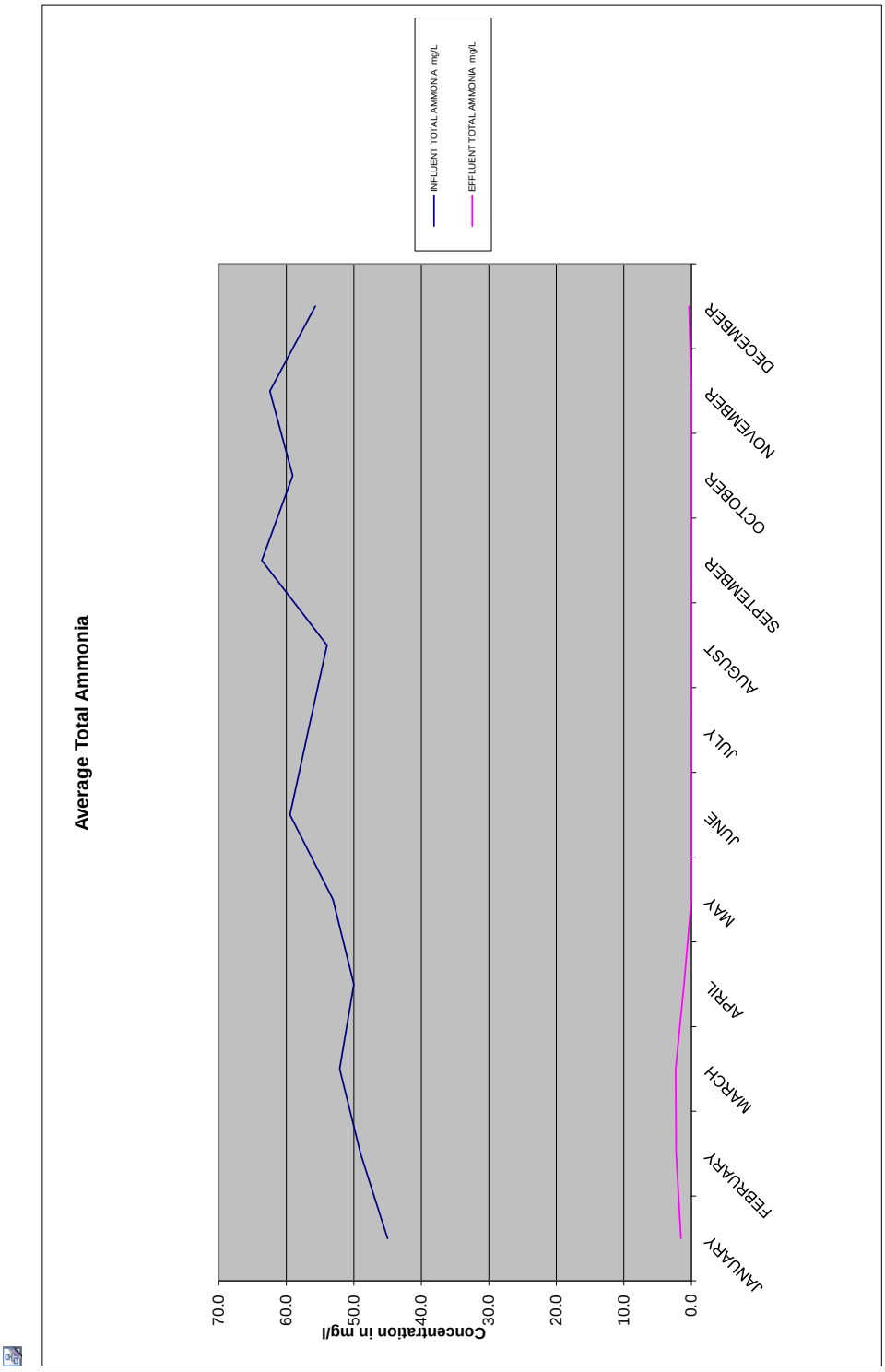


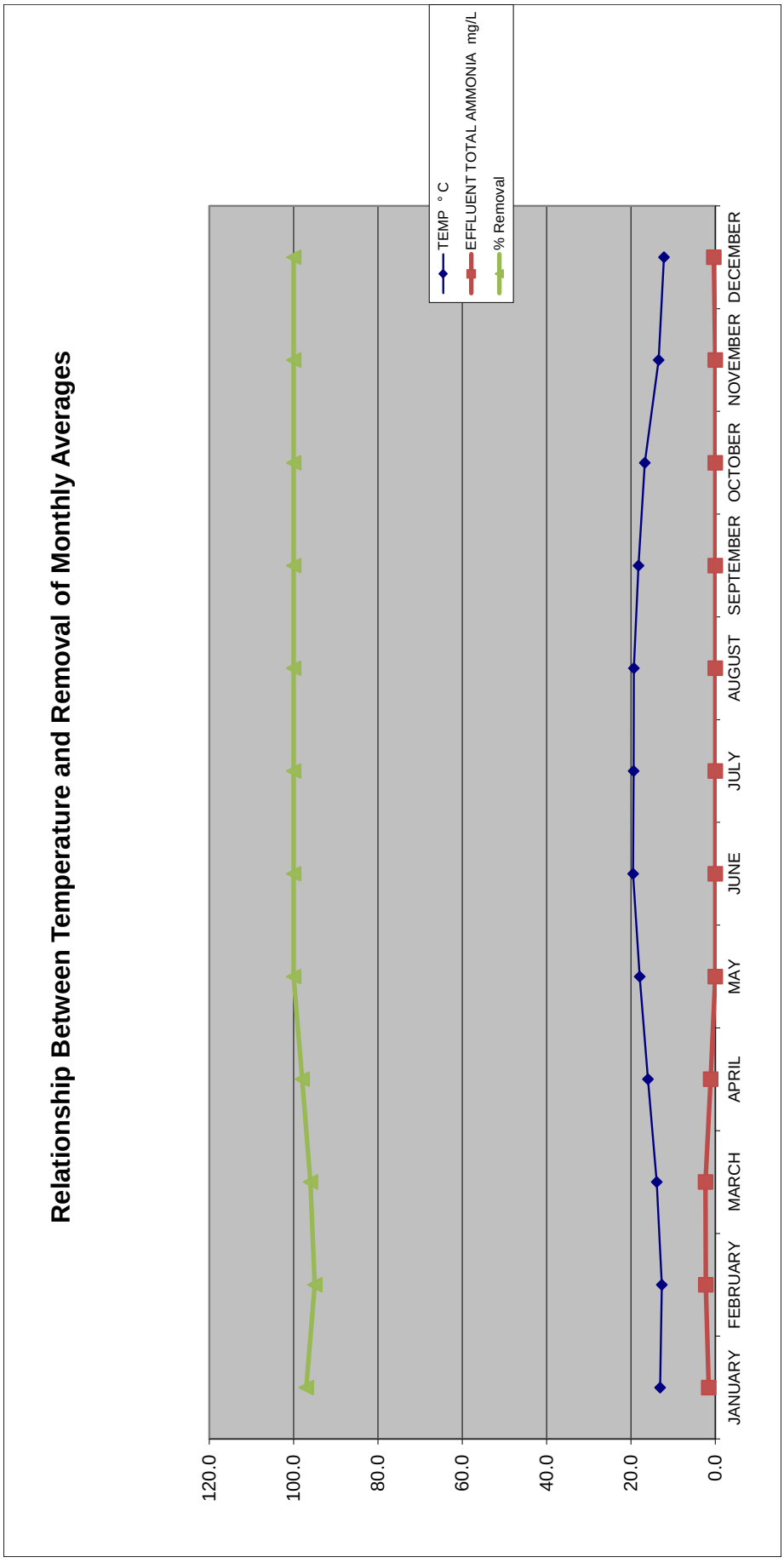
McKinleyville Community Services District
Wastewater Management Facility
2020 Influent, Terminal Pond, and Effluent BOD

MONTH		INFLUENT	EFFLUENT	Terminal Pond	SE
		BOD	BOD	BOD	BOD
January	1/3/2020	240	4.3	ND	8.5
	1/10/2020	250	2.1	ND	6.5
	1/17/2020	280	4.8	2.2	5.1
	1/24/2020	250	4.8	ND	3.3
	1/31/2020	250	7.2	2.4	9.2
February	2/7/2020	270	6.0	3.6	6.5
	2/14/2020	250	4.6	ND	6.2
	2/21/2020	300	6.9	2.7	16.0
	2/28/2020	270	5.8	ND	11.0
March	3/6/2020	260	3.2	ND	14.0
	3/13/2020	270	7.2	ND	14.0
	3/20/2020	290	2.4	2.0	21.0
	3/27/2020	220	4.7	2.8	10.0
April	4/3/2020	360	5.3	2.5	5.4
	4/10/2020	310	4.6	2.5	13.0
	4/17/2020	340	5.4	4.9	6.2
	4/24/2020	340	4.7	3.8	4.8
May	5/1/2020	320	3.8	3.8	6.8
	5/8/2020	330	6.2	6.1	4.5
	5/15/2020	310	5.3	2.0	6.0
	5/22/2020	250	5.0	2.1	5.1
	5/29/2020	540	6.0	4.5	5.1
June	6/5/2020	280	6.7	3.6	2.9
	6/12/2020	340	5.3	3.8	6.8
	6/19/2020	280	4.9	2.7	6.2
	6/26/2020	280	6.2	3.4	ND
July	7/2/2020	270	6.2	2.9	ND
	7/10/2020	490	6.4	2.2	ND
	7/17/2020	540	6.2	3.0	2.2
	7/24/2020	280	6.3	6.2	3.1
	7/31/2020	420	9.7	4.5	ND
August	8/7/2020	390	8.5	8.7	ND
	8/14/2020	330	6.9	6.6	ND
	8/21/2020	380	6.1	5.2	ND
	8/28/2020	370	5.3	5.8	ND
September	9/4/2020	360	4.9	2.1	ND
	9/11/2020	380	7.3	14	3.0
	9/18/2020	380	4.5	31	3.5
	9/25/2020	390	4.9	20	ND
October	10/2/2020	340	4.1	6.6	2.3
	10/9/2020	260	8	10	ND
	10/16/2020	470	6	58	2.2
	10/23/2020	380	5.4	28	ND
	10/30/2020	340	5.9	2.8	ND
November	11/6/2020	330	6.3	21	ND
	11/13/2020	360	4.9	2.6	2.8
	11/20/2020	270	3.1	3.2	2.2
	11/25/2020	370	4.9	2.5	3.0
December	12/4/2020	420	5	2.8	2.8
	12/11/2020	420	6.2	3.5	2.4
	12/18/2020	340	ND	2	ND
	12/23/2020	350	5.1	2.4	4.3
	12/30/2020	400	6.7	3.0	3.9
Average		334	6	7	6
Maximum		540	9.7	58	21
Minimum		220	2.1	2	2

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITIES INFLUENT & EFFLUENT
AVERAGE AMMONIA, TEMPERATURE, pH,
ANNUAL MONTHLY AVERAGE 2020

DATE	INFLUENT pH	INFLUENT TEMP ° C	INFLUENT TOTAL AMMONIA mg/L		EFFLUENT pH	EFFLUENT TEMP ° C	EFFLUENT TOTAL AMMONIA mg/L	% Removal
JANUARY	8.0	14.9	45.0		6.9	13.1	1.55	97
FEBRUARY	8.0	14.4	49.0		7.0	12.7	2.24	95
MARCH	8.0	15.1	52.1		7.1	13.7	2.32	96
APRIL	8.0	15.8	50.0		7.1	16.0	1.10	98
MAY	8.0	17.5	53.1		7.1	17.9	0.01	100
JUNE	8.0	18.7	59.5		7.0	19.5	0.02	100
JULY	7.6	18.8	56.7		7.1	19.4	0.00	100
AUGUST	7.7	19.9	57.0		7.1	19.3	0.00	100
SEPTEMBER	7.7	20.0	63.6		7.1	18.2	0.00	100
OCTOBER	7.8	18.9	59.0		7.2	16.7	0.00	100
NOVEMBER	7.8	17.2	62.4		7.2	13.5	0.01	100
DECEMBER	7.9	15.6	55.7		7.1	12.2	0.35	100
AVERAGE	7.9	17.2	55.3		7.1	16.0	0.63	
MAXIMUM	8.0	20.0	63.6		7.2	19.5	2.32	
MINIMUM	7.6	14.4	45.0		6.9	12.2	0.00	


Average Total Ammonia
INFLUENT TOTAL AMMONIA mg/L
EFFLUENT TOTAL AMMONIA mg/L
Concentration in mg/l
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
NOVEMBER
DECEMBER


Relationship Between Temperature and Removal of Monthly Averages
TEMP ° C
EFFLUENT TOTAL AMMONIA mg/L
% Removal
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

Monitoring Well Levels

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
1/7/2020	GW-001	63.61	23.75	39.86	478.32
1/7/2020	GW-002	61.40	19.00	42.40	508.80
1/7/2020	GW-006	15.70	6.65	9.05	108.60
1/7/2020	GW-007	44.36	25.60	18.76	225.12
1/7/2020	GW-009	37.65	25.83	11.82	141.84
1/7/2020	GW-019	16.08	7.40	8.68	104.16

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
4/2/2020	GW-001	63.61	23.2	40.41	484.92
4/2/2020	GW-002	61.4	17.4	44.00	528.00
4/2/2020	GW-006	15.7	7	8.70	104.40
4/2/2020	GW-007	44.36	26.7	17.66	211.92
4/2/2020	GW-009	37.65	27	10.65	127.80
4/2/2020	GW-019	16.08	7.4	8.68	104.16

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
7/16/2020	GW-001	63.61	18.1	45.51	546.12
7/16/2020	GW-002	61.4	23.4	38	456.00
7/16/2020	GW-006	15.7	7	8.7	104.40
7/16/2020	GW-007	44.36	18.6	25.76	309.12
7/16/2020	GW-009	37.65	17.6	20.05	240.60
7/16/2020	GW-019	16.08	8.2	7.88	94.56

Date	Well ID	T.O.C. Elevation	Depth of GW	G.W. elev. above sea level/ft	inches
10/6/2020	GW-001	63.61	23	40.61	487.32
10/6/2020	GW-002	61.4	18.7	42.7	512.40
10/6/2020	GW-006	15.7	7.9	7.8	93.60
10/6/2020	GW-007	44.36	22.3	22.06	264.72
10/6/2020	GW-009	37.65	24.7	12.95	155.40
10/6/2020	GW-019	16.08	8.45	7.63	91.56

McKinleyville Community Services District
River Monitoring 2020

Upstream RSW-001

Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/2/2020	10:00	1230	9.7	7.0	11.6	15.1	116.0	ND	59	81
February	2/3/2020	9:30	1810	9.3	7.1	12.2	25.1	94.7	ND	56	74
March	03/02/20	10:00	284	9.0	7.2	11.6	1.4	117	ND	76	100
April	04/02/20	13:15	1560	12.3	7.6	11.8	29.5	78	ND	53	84
May	5/4/2020	14:00	233	17.6	7.4	10.0	2.4	151.0	ND	74	81
June	6/1/2020	13:20	757	18.2	7.0	9.8	8	36.8	ND	66	93
July	07/06/20	15:00	109	18.7	7.6	9.6	0.4	190.0	ND	99	120
August	8/3/2020	15:30	41	22.8	8.3	11.6	0.3	200.0	ND	120	160
September	9/1/2020	14:30	35	19.9	7.6	9.0	0.3	212.0	ND	120	100
October	10/5/2020	15:45	24	21.3	7.6	8.5	0.07	162.0	ND	120	140
November	11/2/2020	13:35	40	14.9	6.9	10.7	0.5	206.0	ND	110	130
December	12/01/20	15:00	143	11.5	6.6	11.3	0.10	132.0	ND	87	99
Average				15.4	7.3	10.6	6.9	141.3	ND	87	105
Maximum				22.8	8.3	12.2	29.5	212.0	ND	120	160
Minimum				9.0	6.6	8.5	0.1	36.8	ND	53	74

Downstream RSW-002

Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS	VISUAL IMPACT ON RIVER
January	1/2/2020	10:08	1230	9.2	6.9	11.5	15.5	105.0	ND	60	83	No evidence of our discharge
February	2/3/2020	9:38	1810	8.9	7.1	11.9	24.6	100.0	ND	58	79	No evidence of our discharge
March	03/02/20	10:10	284	10.2	7.2	9.9	1.5	165	0.35	78	150	No evidence of our discharge
April	4/2/2020	13:25	1560	11.5	7.5	11.9	30.4	99.0	ND	53	84	No evidence of our discharge
May	05/04/20	14:15	233	17.7	7.5	9.8	3.3	148.0	ND	73	89	Not discharging to river
June	6/1/2020	13:30	757	17.6	7.2	10	8.9	33.1	ND	65	96	Not discharging to river
July	07/06/20	15:10	109	21.0	9.0	11.4	0.7	221.0	ND	99	140	Not discharging to river
August	8/3/2020	15:20	41	22.6	8.6	10.9	1.2	720.0	ND	310	1,400	Not discharging to river
September	9/1/2020	14:40	35	19.9	8.0	10.4	0.5	570.00	ND	460	2,300	Not discharging to river
October	10/5/2020	15:50	24	19.9	7.3	9.4	1.4	1394.0	ND	1300	8300	Not discharging to river
November	11/2/2020	13:50	40	13.7	7.0	10.5	0.60	1250.0	ND	910	5200	Not discharging to river
December	12/01/20	15:10	143	10.9	6.7	11.2	0.20	146.0	ND	89	110	Not discharging to river
Average				15.3	7.5	10.7	7.4	412.6	0.35	296	1503	
Maximum				22.6	9.0	11.9	30.4	1394.0	0.35	1300	8300	
Minimum				8.9	6.7	9.4	0.2	33.1	0.35	53	79	

WWMF EFF-001

Month	Date	Time	CFS	Temp	pH	D.O.	NTU	Conductivity	Ammonia	Hardness	TDS
January	1/2/2020	9:15	1230	11.9	7.1	6.1	1.3	364.0	2.1	110	
February	2/3/2020	10:00	1810	13.3	7.0	7.5	1.2	322.0	1.5	91	
March	03/02/20	10:30	284	11.8	7.1	7.7	1.6	382	1.6	87	
April	4/2/2020	11:00	1560	13.8	7.0	8.9	1.7	381.0	1.4	89	240
May	5/4/2020	14:25	233	17.0	7.2	8.5	0.9	362.0	ND		230
June	6/1/2020	13:40	757	18.6	7.0	6.1	1.0	105.0	ND		240
July	07/06/20	13:45	109	18.7	7.2	6.6	1.5	367.0	ND		250
August	8/3/2020	15:00	41	19.6	7.2	6.2	0.5	385.0	ND		290
September	9/1/2020	13:40	35	17.9	7.2	5.1	0.4	424.0	ND		260
October	10/5/2020	15:30	24	17.3	7.3	6.8	0.6	444.0	ND		270
November	11/2/2020	08:15	40	13.6	7.2	6.9	0.3	375.0	ND		280
December	12/01/20	14:45	143	12.3	7.2	7.4	0.4	253.0	ND		260
Average				15.5	7.1	7.0	1.0	347.0	2	0	258
Maximum				19.6	7.3	8.9	1.7	444.0	2	110	290
Minimum				11.8	7.0	5.1	0.3	105.0	1	87	230

McKinleyville Community Services District
Wastewater Management Facility
Pond Ammonia Levels in mg/L
Annual Averages 2020

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5
January		1.00	0.29	0.13	0.53	0.60
February		0.64	0.14	0.12	0.30	0.17
March		0.22	0.12	0.16	0.27	0.40
April		0.13	0.04	0.08	0.25	0.31
May		0.06	0.04	0.27	0.16	0.58
June		0.21	0.02	0.08	0.15	0.11
July		0.03	0.06	0.13	0.08	0.07
August		0.01	0.03	0.05	0.12	0.13
September		0.02	0.02	0.08	0.13	0.12
October		0.11	0.06	0.18	Empty	Empty
November		0.11	0.24	0.30	0.03	Empty
December		0.23	0.19	0.45	0.08	Empty
Average		0.23	0.10	0.17	0.19	0.28
Minimum		0.01	0.02	0.05	0.03	0.07
Maximum		1.00	0.29	0.45	0.53	0.60

McKinleyville Community Services District
Wastewater Management Facility
Pond Temperatures in C
Annual Averages 2020

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond Temp.
January		11.7	11.7	11.6	11.6	11.1	11.5
February		12.9	12.9	12.8	12.5	11.0	12.4
March		13.7	13.8	13.7	13.2	11.3	13.1
April		16.9	17.0	17.2	15.7	12.0	15.8
May		18.5	18.6	18.5	17.9	15.4	17.8
June		20.3	20.4	19.8	18.2	16.4	19.0
July		19.8	19.8	19.0	17.5	16.7	18.6
August		19.4	19.3	18.9	18.0	17.2	18.6
September		18.3	18.0	17.6	17.3	15.7	17.4
October		15.9	15.9	15.6	Empty	Empty	15.8
November		12.9	12.6	12.5	12.1	Empty	12.5
December		11.2	10.7	10.7	10.2	Empty	10.7
Average		15.9	15.9	15.6	14.9	14.1	
Minimum		11.2	10.7	10.7	10.2	11.0	
Maximum		20.3	20.4	19.8	18.2	17.2	

McKinleyville Community Services District
Wastewater Management Facility
Pond pH
Annual Averages 2020

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond pH
January		7.1	7.4	7.6	7.0	6.3	7.1
February		7.4	7.7	7.8	7.3	6.3	7.3
March		7.3	8.0	8.1	7.1	6.3	7.4
April		7.9	9.1	9.8	7.7	6.3	8.6
May		8.1	8.8	9.1	7.2	6.5	8.4
June		8.3	9.5	8.6	7.0	6.2	7.9
July		9.4	9.3	8.4	7.1	6.3	8.5
August		8.3	7.9	7.3	6.1	5.4	7.5
September		7.8	8.4	7.5	6.9	6.4	7.5
October		7.3	7.8	7.4	Empty	Empty	7.5
November		7.5	7.6	7.8	7.2	Empty	7.5
December		7.2	7.5	7.7	7.1	Empty	7.4
Average		7.8	8.3	8.1	7.1	6.2	
Minimum		7.1	7.4	7.3	6.1	5.4	
Maximum		9.4	9.5	9.8	7.7	6.5	

McKinleyville Community Services District
Wastewater Management Facility
Pond Dissolved Oxygen in mg/L
Annual Averages 2020

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond D.O.
January		7.5	9.4	9.9	5.4	3.9	7.2
February		8.5	10.4	10.5	8.1	4.8	8.5
March		8.5	11.4	10.6	6.7	3.9	8.2
April		10.5	12.6	13.9	11.9	3.0	10.4
May		10.5	9.3	9.1	6.9	2.5	7.6
June		9.4	12.2	5.7	3.5	3.0	6.8
July		11.9	10.6	3.4	3.2	3.7	6.6
August		8.2	6.6	2.9	2.5	2.6	4.6
September		8.1	6.3	2.1	2.4	2.8	4.3
October		6.2	6.1	2.7	Empty	Empty	5.0
November		7.7	7.2	7.2	6.6	Empty	7.1
December		6.2	7.7	7.8	5.7	Empty	6.8
Average		8.6	9.1	7.1	5.7	3.4	
Minimum		6.2	6.1	2.1	2.4	2.5	
Maximum		11.9	12.6	13.9	11.9	4.8	

McKinleyville Community Services District
Wastewater Management Facility
Pond Depths, Elevation in Feet Above Sea Level
Annual Averages 2020

Date		Pond 1	Pond 2	Pond 3	Pond 4	Pond 5	Average Pond Depth
January		61.8	61.6	61.6	61.7	61.7	61.7
February		61.2	61.1	61.1	61.2	61.2	61.1
March		60.7	60.4	60.4	60.5	60.5	60.5
April		60.4	60.1	60.0	60.3	60.3	60.2
May		60.8	60.5	60.5	60.4	60.4	60.5
June		60.9	60.6	60.6	60.6	60.6	60.7
July		59.7	59.6	59.4	60.0	60.0	59.7
August		60.3	60.0	59.9	60.3	60.3	60.0
September		60.6	60.5	60.4	60.5	60.3	60.5
October		60.8	60.7	60.7	Empty	Empty	60.7
November		61.7	61.3	61.2	61.4	Empty	61.4
December		62.5	61.7	61.7	61.8	Empty	61.9
Average		61.0	60.7	60.6	60.8	60.6	
Minimum		59.7	59.6	59.4	60.0	60.0	
Maximum		62.5	61.7	61.7	61.8	61.7	

MCKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
ELECTRIC, CL_2, $SO_{2,\ WATER}$ and RAIN DATA
ANNUAL 2020

DATE	PG&E kw Hours	CL_2 USAGE lbs.	SO2 USAGE lbs.	RAIN inches
JANUARY	1775	46	39	0.31
FEBRUARY	1749	37	35	0.04
MARCH	1765	28	27	0.07
APRIL	1915	31	28	0.08
MAY	2447	71	0	0.19
JUNE	2368	90	0	0.03
JULY	2059	77	0	0.00
AUGUST	2085	68	0	0.00
SEPTEMBER	2117	71	0	0.02
OCTOBER	2034	73	0	0.02
NOVEMBER	1946	53	0	0.11
DECEMBER	2013	64	0	0.17

AVERAGE	2023	59	11	0.09
MAXIMUM	2447	90	39	0.31
MINIMUM	1749	28	0	0.00

WWMF WATER METER			
DATE	LOW	HIGH	CU.FT.
START	56125	142155	
END	02645	00204	

New meter installed

Month		Year	2020	McKinleyville WWMF Annual Averages																																								
	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
January	1.117	1.301	0.042	80	270	290	2.4	1.7	2200	2202	2159	1958	4512	609	25	91	2697	2513	28700	1739	26	282	33	0.047	8.0	6.9	6.9	6.7	6.7	6.7	6.8	308	117	117	110	45	0.07	0.07	1.16	1.55	4.5	7.7	5.5	5.0	0.8	1.2
February	1.015	1.202	0.042	80	255	283	3.6	1.6	2215.1	2237.2	2157	1959.8	4474	470	23	91	2331	2158	59411	1567	36	218	37	0.041	8.0	7.0	7.0	6.9	6.7	6.8	6.9	297	113	111	101	49	0.17	0.17	1.43	2.24	3.6	8.4	5.3	4.8	1.1	1.5
March	0.939	1.082	0.042	80	275	279	4.8	3.2	2139	2183	2099	1907	4626	541	25	91	2139	2156	57714	1620	41	258	35	0.042	8.0	7.0	7.1	6.9	6.8	6.8	6.9	302	117	116	103	52	0.11	0.14	1.47	2.32	4.5	9.5	6.5	5.4	1.7	2.1
April	0.957	0.974	0.0418	80	334	278	3.5	2.3	2088	2132	2126	1946	4616	449	25	92	2192	2669	56317	1607	26	210	35	0.051	8.0	6.9	7.1	6.9	6.9	6.9	6.9	310	120	119	112	50	0.08	0.06	0.81	1.10	2.9	4.9	4.0	3.6	1.2	1.5
May	0.928	0.828	0.0286	80	297	293	4.5	1.2	1879	1914	1907	1758	3873	288	25	92	2235	2299	50610	945	32	151	56	0.049	8.0	6.9	7.1	6.9	6.8	6.8	6.9	308	114	117	111	53	0.07	0.07	0.03	0.01	6.3	8.7	8.0	4.3	1.7	1.1
June	0.903	0.994	0.020	80	329	318	2.1	0.8	2209	2274	2231	2031	4943	274	24	91	2382	2486	59825	826	16	122	77	0.046	8.0	7.0	7.0	6.9	6.9	6.9	6.9	342	122	129	121	59	0.09	0.07	0.03	0.02	3.0	4.9	4.3	3.4	0.7	1.0
July	0.851	0.841	0.029	80	291	346	2.3	1.0	2538	2495	2484	2228	6638	375	18	90	2449	2064	67197	1605	17	151	42	0.035	7.6	7.1	7.1	7.1	7.0	7.0	7.1	320	142	141	140	57	0.03	0.05	0.02	0.00	1.1	2.3	2.2	1.6	0.5	0.8
August	0.840	0.665	0.0283	80	366	328	1.9	0.9	2532	2496	2466	2177	6539	394	15	88	2083	2528	61209	1407	10	160	44	0.044	7.7	7.2	7.1	7.1	7.1	7.0	7.1	340	148	154	152	57	0.04	0.06	0.02	0.00	1.0	1.5	1.6	1.1	0.5	0.6
September	0.855	0.757	0.026	80	367	373	1.6	0.6	2779	2801	2730	2358	6815	430	21	86	2635	2618	74458	1478	11	158	51	0.042	7.7	7.2	7.1	7.1	7.1	7.0	7.1	375	163	166	164	64	0.03	0.03	0.02	0.00	1.0	1.1	1.2	0.9	0.5	0.7
October	0.869	0.787	0.0314	80	362	330	1.7	0.5	2775	2737	2778	2376	6919	491	22	86	2360	2621	73558	1791	12	177	42	0.041	7.8	7.0	7.2	7.1	7.1	7.0	7.1	358	151	160	156	59	0.02	0.02	0.01	0.00	1.2	3.0	2.5	1.5	0.3	0.5
November	0.887	0.722	0.034	80	337	318	1.4	0.5	2700	2696	2613	2268	7076	438	20	87	2325	2490	71996	2006	7	168	36	0.041	7.8	7.2	7.2	7.1	7.0	7.0	7.1	356	149	157	146	62	0.03	0.02	0.01	0.01	1.8	4.1	3.5	2.1	0.3	0.4
December	0.873	0.945	0.0351	80	384	257	1.6	0.8	2767	2807	2695	2348	7220	501	17	87	1815	2738	74376	2109	13	186	35	0.044	7.9	7.1	7.1	7.0	7.0	6.9	7.0	304	140	143	137	56	0.03	0.03	0.42	0.35	1.2	2.6	2.5	2.2	0.3	0.7
Minimum	0.840	0.665	0.020	80	255	257	1.4	0.5	1879	1914	1907	1758	3873	274	15	86	1815	2064	28700	826	7	122	33	0.035	7.6	6.9	6.9	6.7	6.7	6.7	6.8	297	113	111	101	45	0.02	0.02	0.01	0.00	1.0	1.1	1.2	0.9	0.3	0.4
Maximum	1.117	1.301	0.042	80	384	373	4.8	3.2	2779	2807	2778	2376	7220	609	25	92	2697	2738	74458	2109	41	282	77	0.051	8.0	7.2	7.2	7.1	7.1	7.0	7.1	375	163	166	164	64	0.17	0.17	1.47	2.32	6.3	9.5	8.0	5.4	1.7	2.1
Average	0.919	0.925	0.033	80	322	308	2.6	1.3	2402	2415	2370	2109	5688	438	22	89	2304	2445	61281	1558	21	187	44	0.044	7.9	7.0	7.1	7.0	6.9	6.9	7.0	327	133	136	129	55	0.07	0.07	0.45	0.63	2.7	4.9	3.9	3.0	0.8	1.0
Normal Range																																													

Month	January	Year	2020		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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	Rain	0.992	1.236	0.042	80	367													3036								7.6		7.0																								0.8/0.8		
2	Clear	0.985	1.196	0.042	80	367	219	0.6	1.8	2158	2192	2181	1972	5436	640		90	1799	3015	58046	1904	6	293	30	0.057	7.9	6.8	7.1	6.8	6.8	6.8	6.8	260	140	120	120	48	0.01	0.00	1.48	2.67	2.8	6.3	4.5	3.5	0.7	1.3								0.8/0.8	8'/2.5'	10'/2.5'
3	Clear	0.953	1.175	0.042	80	240	276	3.0	2.0	2260	2219	2246	2021	4512	700	25	90	2194	1908	59768	1580	29	312	37	0.035	8.1	7.0	7.0	6.9	6.9	6.9	7.0	340	140	140	140	56	0.00	0.00	2.57	2.53	3.1	6.6	4.1	3.9	1.5	1.2	8.5	4.3	51.0	3.1	2.7	0.8/0.8	7.5'/2.5'	7'/2'
4	Rain	1.045	1.297	0.042	80	240													2092								8.0		6.9																								0.8/0.8		
5	Rain	1.069	1.171	0.042	80	240													2140								8.2		6.9																								0.8/0.8		
6	cloudy	0.969	1.189	0.042	80	240	111	2.4	1.4	2118	2132	2113	1880	5198	630		89	897	1940	56712	1821	24	298	31	0.039	7.6	7.0	7.0	6.9	6.8	6.8	6.9	220	140	140	120	28	0.00	0.00	1.19	1.60	2.7	6.1	3.9	4.2	0.8	1.2								0.8/0.8	8'/2.5'	7.5'/2.5'
7	overcast	0.952	1.109	0.042	80	240	216	2.2	1.8	2115	2119	2079	1874	5216	650		90	1715	1906	56498	1827	20	313	31	0.038	8.0	6.9	7.0	6.8	6.7	6.8	6.8	260	120	120	120	44	0.00	0.07	1.31	1.60	3.7	7.4	4.7	4.7	0.8	1.3								0.8/0.8	6.5'/2.5'	8'/3'
8	Rain	1.023	1.213	0.042	80	240	208	3.6	2.4	2207	2185	2145	1933	5682	650		90	1775	2048	58607	1990	36	303	29	0.040	8.1	6.9	7.0	6.8	6.8	6.7	7.0	300	140	120	120	52	0.00	0.00	1.26	1.82	4.5	8.1	5.7	5.1	0.8	1.3								0.8/0.8	7'/2.5'	7.5'/2.5'
9	Cloudy	1.073	1.376	0.042	80	240	110	2.6	2.0	2104	2140	2084	1883	5448	640		90	984	2148	56632	1908	30	307	29	0.043	7.5	6.9	6.9	6.8	6.7	6.8	6.9	180	140	120	120	20	0.00	0.00	1.08	1.72	5.1	8.5	6.3	5.7	0.7	1.3								0.8/0.8	7'/2'	8'/3'
10	overcast	1.020	1.233	0.042	80	250	445	0.8	1.0	2067	2112	2053	1927	5014	630	33	94	3786	2127	55765	1756	8	307	32	0.041	8.4	6.7	6.9	6.6	6.6	6.6	6.6	400	120	120	100	68	0.02	0.02	1.07	1.41	5.7	9.8	6.7	5.9	0.6	1.2	6.5	2.1	53.0	2.4	2.0	0.8/0.8	7'/3'	7.5'/2.5'
11	Rain	1.127	1.332	0.042	80	250													2350								8.5		6.8																								0.8/0.8		
12	Rain	1.170	1.229	0.042	80	250													2439								8.3		6.9																								0.8/0.8		
13	Rain	1.123	1.315	0.042	80	250	243	2.4	1.0	2249	2212	2152	1956	4812	680		91	2276	2341	59528	1686	26	316	35	0.045	7.8	6.9	6.9	6.8	6.7	6.8	6.8	380	120	120	100	44	0.02	0.05	0.65	0.83	5.3	8.7	6.5	5.6	0.6	0.8								0.8/0.8	7.5'/3'	8'/3'
14	rain	1.112	1.318	0.042	80	250	228	2.2	2.0	2186	2139	2102	1899	5360	660		90	2114	2319	57713	1878	24	314	30	0.046	8.1	6.8	7.0	6.7	6.7	6.7	6.7	280	120	100	100	50	0.05	0.04	1.07	1.85	5.1	7.7	5.7	5.3	0.7	1.1								0.8/0.8	7.5'/3'	7.5'/3'
15	overcast	1.105	1.245	0.042	80	250	310	2.2	1.0	2224	2266	2174	1965	4792	660		90	2857	2304	59915	1679	23	304	35	0.044	7.7	6.9	6.9	6.7	6.7	6.7	6.8	380	120	120	120	40	0.00	0.00	1.34	1.17	5.9	9.1	6.3	5.5	0.7	0.8								0.8/0.8	8'/3'	7.5'/2.5'
16	Rain	1.375	1.207	0.042	80	250	361	2.2	1.6	2235	2225	2133	1938	4690	680		91	4140	2867	59514	1643	22	319	36	0.055	7.7	6.8	6.9	6.7	6.7	6.7	6.7	340	100	100	100	48	0.04	0.10	0.92	1.21	5.9	8.7	6.7	5.4	0.5	0.8								0.8/0.8	9.5'/3'	10'/3'
17	overcast	1.154	1.528	0.042	80	280	196	1.4	2.2	2218	2220	2127	1929	4994	670	18	91	1886	2695	59221	1749	18	315	34	0.052	7.8	6.8	6.8	6.7	6.7	6.7	6.7	380	100	100	100	24	0.00	0.01	1.05	0.84	6.5	8.9	6.8	6.2	0.7	1.2	5.1	4.8	47.0	2.1	1.6	0.8/0.8	7'/3'	7'/3'
18	Clear	1.192	1.384	0.042	80	280													2784								7.7		7.0																								0.8/0.8		
19	overcast	1.174	1.261	0.042	80	280													2742								8.0		7.0																								0.8/0.8		
20	overcast	1.169	1.307	0.042	80	280													2730								7.6		7.0																								0.8/0.8		
21	overcast	1.148	1.409	0.042	80	280	275	2.0	0.6	2237	2252	2223	2027	4806	650		91	2633	2681	59901	1683	24	292	35	0.050	8.0	6.7	6.9	6.6	6.6	6.6	6.6	320	100	120	120	44	0.10	0.07	1.00	1.24	4.2	7.6	5.5	5.2	0.6	1.2								0.8/0.8	7'/3'	7'/3'
22	overcast	1.113	1.309	0.042	80	280	419	2.2	2.2	2247	2209	2129	1942	4968	600		91	3889	2599	59461	1740	24	282	34	0.050	8.2	6.7	6.8	6.7	6.7	6.6	6.7	400	120	120	120	60	0.04	0.00	1.03	1.70	3.7	6.8	5.4	5.0	0.6	1.3								0.8/0.8	6'/3'	6.5'/3'
23	overcast	1.085	1.357	0.042	80	280	326	2.0	1.2	2242	2245	2285	2071	4614	600		91	2950	2534	59875	1616	23	263	37	0.046	7.9	6.8	6.8	6.7	6.6	6.7	6.6	280	100	120	100	44	0.04	0.15	0.80	1.43	4.3	7.2	5.7	5.3	0.5	1.1								0.8/0.8	5.5'/3'	6'/3'
24	overcast	1.060	1.216	0.042	80	250	410	1.8	0.8	2220	2278	2224	2027	4844	600	24	91	3625	2210	60021	1697	18	270	35	0.041	8.1	6.7	6.7	6.8	6.7	6.7	6.8	300	100	120	100	52	0.19	0.13	0.00	0.05	5.3	8.4	5.9	5.3	0.3	0.7	3.3	4.8	40.0	1.1	ND	0.8/0.8	5.5'/2.5'	6'/3'
25	Rain	1.185	1.257	0.042	80	250													2471								8.3		6.7																								0.8/0.8		
26	overcast	1.353	1.339	0.042	80	250													2821								8.0		6.7																								0.8/0.8		
27	Rain	1.209	1.448	0.042	80	250	254	2.2	1.8	2259	2267	2158	1959	4950	530		91	2561	2521	60395	1734	27	246	34	0.048	8.0	7.0	6.8	6.6	6.6	6.6	6.7	300	120	140	120	46	0.08	0.09	1.10	1.26	4.0	7.2	4.6	4.4	0.9	1.0								0.8/0.8	6'/2.5'	5.5'/3'
28	Rain	1.241	1.550	0.042	80	250	354	7.4	2.4	2250	2184	2173	1967	5014	540		91	3664	2587	59167	1756	96	249	32	0.049	7.5	6.9	6.8	6.8	6.8	6.7	6.8	260	100	120	100	34	0.08	0.26	0.91	1.27	3.6	6.4	4.6	4.6	0.7	1.1								0.8/0.8	5.5'/2.5'	5.5'/2.5'
29	overcast	1.120	1.390	0.042	80	250	238	2.8	2.2	2109	2137	2138	1945	4578	490		91	2223	2335	56659	1604	32	229	35	0.045	8.0	6.8	6.9	6.8	6.7	6.7	6.8	280	120	100	100	40	0.15	0.26	1.46	2.19	4.1	7.2	5.5	5.0	1.1	1.4								0.8/0.8	6'/3'	5.5'/3'
30	overcast	1.188	1.439	0.042	80	250	320	0.4	1.4	2280	2281	2224	2024	4738	450		91	3171	2477	60862	1660	5	202	37	0.046	8.1	7.0	6.9	6.7	6.6	6.7	6.9	300	100	100	100	54	0.18	0.14	1.51	2.04	4.1	7.4	5.2	5.1	1.2	1.3								0.8/0.8	5'/2.5'	5'/2'
31	clear	1.141	1.294	0.042	80	250	578	3.4	2.2	2221	2225	2190	1988	4614	430	25	91	5500	2379	58447	1616	37	196	35	0.045	7.9	6.9	6.8	6.7	6.6	6.7	6.8	300	100	100	100	48	0.37	0.14	1.50	2.09	5.0	8.0	5.8	5.1	1.2	1.3	9.2	7.2				0.8/0.8	5'/2.5'	5'/2'
Minimum		0.952	1.109	0.042	80	240	110	0.4	0.6	2067	2112	2053	1874	4512	430	18	89	897	1906	55765	1580	5	196	29	0.035	7.5	6.7	6.7	6.6	6.6	6.6	6.6	180	100	100	100	20	0.00	0.00	0.00	0.05	2.7	6.1	3.9	3.5	0.3	0.7	3.3	2.1	40.0	1.1	1.6			
Maximum		1.375	1.550	0.042	80	367	578	7.4	2.4	2280	2281	2285	2071	4512	700	33	94	5500	3036	60862	1990	96	319	37	0.057	8.5	7.0	7.1	6.9	6.9	6.9	7.0	400	140	140	140	68	0.37	0.26	2.57	2.67	6.5	9.8	6.8	6.2	1.5	2.0	9.2	7.2	53.0	3.1	2.7			
Average		1.117	1.301	0.042	80	262	290	2.4	1.7	2200	2202	2159	1958	4512	609	25	91	2697	2437	58700	1739	26	282	33	0.045	8.0	6.9	6.9	6.7	6.7	6.7	6.8	308	117	117	110	45	0.07	0.07	1.16	1.55	4.5	7.7	5.5	5.0	0.8	1.2	6.5	4.6	47.8	2.2	2.1			

Month	February	Year	2020	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	overcast	1.168	1.328	0.042	80	250													2435								7.6		7.0																			1.5							0.8/0.8		
2	clear	1.225	1.246	0.042	80	250													2554								8.0		7.0																			1.6							0.8/0.8		
3	clear	1.140	1.313	0.042	80	250	323	3.4	0.6	2280	2247	2132	1928	4616	430		90	3071	2377	60408	1617	37	202	37	0.046	8.1	7.0	7.0	6.9	6.8	6.8	6.8	280	100	100	100	54	0.10	0.13	1.40	2.24	2.9	6.1	3.8	4.0	1.0	1.2							0.8/0.8	5.5'/2'	5'/2'
4	clear	1.084	1.274	0.042	80	250	351	0.8	0.8	2218	2187	2116	1909	4604	490		90	3173	2260	58780	1613	9	232	36	0.044	8.3	7.0	7.0	6.8	6.7	6.8	6.8	320	120	100	100	50	0.13	0.12	1.12	1.69	3.0	6.7	3.7	3.9	0.9	1.2							0.8/0.8	5'/3'	5'/2.5'
5	clear	1.079	1.328	0.042	80	250	313	2.4	2.4	2264	2267	2157	1948	4262	490		90	2817	2250	60462	1493	27	227	40	0.043	7.5	6.9	7.0	6.8	6.7	6.7	6.8	300	100	100	100	62	0.34	0.27	1.20	1.42	4.1	8.2	5.4	4.8	0.9	1.2							0.8/0.8	5'/3'	5.5'/3'
6	clear	1.049	1.179	0.042	80	250	222	2.0	0.4	2278	2292	2253	2050	4398	490		91	1942	2187	60982	1541	20	217	39	0.040	8.0	7.1	7.0	6.8	6.7	6.7	6.8	260	100	100	100	36	0.26	0.16	1.80	2.65	4.1	9.3	6.1	5.2	1.1	1.6							0.8/0.8	6'/2.5'	5'/2'
7	overcast	1.032	1.228	0.042	80	270	164	1.8	0.8	2275	2255	2160	1955	4806	470	23	91	1412	2324	60448	1683	18	218	36	0.045	8.1	6.9	7.0	6.9	6.7	6.7	6.8	320	100	100	100	34	0.09	0.27	1.68	2.20	3.3	9.5	6.4	5.9	1.1	1.2	6.5	6.0					0.8/0.8	5'/2.5'	6'/2.5'
8	clear	1.071	1.215	0.042	80	270													2412								8.1		7.0																			1.6							0.8/0.8		
9	clear	1.112	1.115	0.042	80	270													2504								8.2		7.0																			1.5							0.8/0.8		
10	clear	1.028	1.172	0.042	80	270	226	2.0	0.6	2271	2270	2132	1929	4544	500		90	1938	2315	60595	1592	20	235	38	0.045	8.1	7.0	7.1	6.9	6.8	6.8	7.1	280	100	100	100	50	0.06	0.02	0.48	0.90	4.6	8.6	5.9	5.3	0.6	1.2							0.8/0.8	6'/2.5'	6'/2'
11	clear	1.002	1.279	0.042	80	270	385	2.0	2.2	2240	2304	2128	1925	4624	470		90	3217	2256	60635	1620	21	221	37	0.044	8.2	6.9	7.1	6.9	6.7	6.8	6.9	320	100	120	100	56	0.18	0.11	1.59	2.75	4.3	8.5	5.6	5.1	1.1	1.3							0.8/0.8	6'/2.5'	5'/2'
12	clear	1.008	1.197	0.042	80	270	148	2.2	1.8	2167	2262	2187	1977	4522	490		90	1244	2270	59101	1584	22	224	37	0.043	7.7	7.0	7.1	6.8	6.7	6.8	6.8	240	120	120	100	36	0.20	0.14	1.33	2.49	4.5	8.8	3.9	4.8	0.8	1.5							0.8/0.8	5'/2'	5.5'/2'
13	overcast	0.979	1.251	0.042	80	270	194	2.8	1.6	2172	2236	2158	1950	4456	480		90	1584	2205	58820	1561	29	222	37	0.042	8.0	7.0	7.0	6.8	6.8	6.8	6.9	260	120	120	120	48	0.22	0.15	1.54	2.33	4.7	8.8	6.1	5.3	0.8	1.3							0.8/0.8	5'/2.5'	5'/2'
14	clear	0.967	1.177	0.042	80	250	363	2.8	2.8	2220	2265	2222	2014	4262	490	24	91	2928	2016	59848	1493	27	221	39	0.038	8.2	6.9	7.0	7.0	6.7	6.7	6.9	320	120	120	100	56	0.31	0.37	1.46	1.78	4.9	9.1	6.5	5.9	0.9	1.5	6.2	4.6					0.8/0.8	5'/2'	5'/2'
15	Cloudy	0.999	1.230	0.042	80	250													2083								7.7		7.0																			1.7							0.8/0.8		
16	Rain	1.051	1.198	0.042	80	250													2191								8.3		6.9																			1.7							0.8/0.8		
17	Foggy	1.041	1.269	0.042	80	250													2170								7.5		6.9																			1.4							0.8/0.8		
18	clear	0.986	1.160	0.042	80	250	144	2.0	0.6	2289	2225	2171	1970	4420	460		91	1184	2056	60235	1548	19	212	38	0.039	7.6	7.0	7.1	6.8	6.8	6.8	7.0	240	100	100	100	36	0.00	0.00	1.14	1.84	2.9	8.4	4.9	4.4	0.7	1.1							0.8/0.8	5'/2'	5'/2'
19	clear	0.969	1.228	0.042	80	250	241	2.0	0.8	2108	2155	2030	1852	4172	470		91	1948	2020	56885	1461	20	232	38	0.041	8.1	7.0	7.0	6.8	6.7	6.8	6.9	280	120	120	100	46	0.05	0.05	1.74	2.62	3.0	8.4	4.9	4.3	1.0	1.6							0.8/0.8	5'/2'	6'/2'
20	Cloudy	0.933	1.159	0.042	80	250	259	2.6	3.4	2152	2276	2230	2034	4386	490		91	2015	1945	59087	1536	25	220	38	0.036	8.1	7.0	7.0	6.8	6.7	6.8	6.9	300	120	120	100	22	0.04	0.00	1.85	2.32	3.6	9.0	5.4	4.7	1.1	1.5							0.8/0.8	6'/2'	5'/2'
21	clear	0.919	1.225	0.042	80	300	380	10.8	1.6	2199	2267	2153	1963	4654	450	16	91	2912	2299	59594	1630	110	209	34	0.044	8.4	7.1	7.0	6.8	6.7	6.7	6.9	380	120	120	100	74	0.04	0.00	1.76	2.73	3.8	9.3	6.2	4.9	1.6	1.5	16.0	6.9					0.8/0.8	5'/2'	5'/2.5'
22	clear	0.961	1.121	0.042	80	300													2404								7.9		6.9																			1.9							0.8/0.8		
23	overcast	1.027	1.191	0.042	80	300													2570								7.5		6.9																			1.9							0.8/0.8		
24	clear	0.941	1.109	0.042	80	300	380	2.4	0.8	2241	2205	2081	1934	4530	450		93	2982	2354	59327	1587	22	216	37	0.046	8.4	7.0	7.0	6.8	6.8	6.8	6.9	380	120	120	100	70	0.34	0.33	0.35	0.82	2.5	8.1	5.0	4.5	0.9	1.1							0.8/0.8	5'/2'	6'/2.5'
25	clear	0.943	1.179	0.042	80	300	286	3.4	1.8	2278	2237	2146	1950	4342	450		91	2249	2359	60248	1521	33	210	39	0.045	8.2	7.0	7.1	6.9	6.8	6.8	6.9	300	120	120	100	46	0.17	0.36	1.61	2.76	3.1	8.0	4.8	4.4	1.5	1.8							0.8/0.8	5'/2.5'	5'/2'
26	clear	0.936	1.108	0.042	80	300	454	4.6	2.2	2124	2126	2160	1972	4414	440		91	3544	2342	56712	1546	43	204	36	0.044	8.3	6.9	7.0	6.9	6.8	6.8	6.8	300	120	100	100	58	0.12	0.18	1.69	3.44	2.8	8.2	5.0	4.4	1.4	2.0							0.8/0.8	4'/1.5'	5'/1.5'
27	foggy	0.930	1.169	0.042	80	300	177	15.8	2.6	2093	2194	2183	1992	4430	450		91	1373	2327	57206	1552	154	206	34	0.044	7.6	7.0	7.0	6.9	6.8	6.8	6.8	240	120	100	100	38	0.41	0.35	1.72	2.84	3.0	8.0	5.2	4.4	2.8	1.8							0.8/0.8	6'/1.5'	6'/2'
28	Foggy	0.901	1.119	0.042	80	270	367	3.0	2.4	2218	2236	2178	1985	4564	470	28	91	2758	2029	59434	1599	28	216	37	0.038	8.1	7.1	7.0	6.9	6.8	6.8	6.9	320	120	120	100	58	0.17	0.21	1.62	2.72	3.6	8.0	5.1	4.6	1.2	1.8	11.0	5.8					0.8/0.8	5'/2.5'	5'/2'
29	clear	0.949	1.085	0.042	80	270													2137								8.1		7.0																			2.3							0.8/0.8		
Minimum		0.901	1.085	0.042	80	250	144	0.8	0.4	2093	2126	2030	1852	4172	430	16	90	1184	1945	56712	1461	9	202	34	0.039	7.5	6.9	6.9	6.8	6.7	6.7	6.8	240	100	100	100	22	0.00	0.00	0.35	0.82	2.5	6.1	3.7	3.9	0.6	1.1	6.2	4.6	0.0	0.0	0.0			
Maximum		1.225	1.328	0.042	80	300	454	15.8	3.4	2289	2304	2253	2050	4806	500	28	93	3544	2570	60982	1683	154	235	40	0.047	8.4	7.1	7.1	7.0	6.8	6.8	7.1	380	120	120	120	74	0.41	0.37	1.85	3.44	4.9	9.5	6.5	5.9	2.8	2.3	16.0	6.9	0.0	0.0	0.0			
Average		1.015	1.202	0.042	80	268	283	3.6	1.6	2215	2237	2157	1960	4474	470	23	91	2331	2264	59411	1567	36	218	37	0.043	8.0	7.0	7.0	6.9	6.7	6.8	6.9	297	113	111	101	49	0.17	0.17	1.43	2.24	3.6	8.4	5.3	4.8	1.1	1.5	9.9	5.8	#DIV/0!	#DIV/0!	#DIV/0!			

Month	March	Year	2020	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	clear	1.017	1.161	0.042	80	270										
2	clear	0.934	1.086	0.042	80	270	271	4.8	1.8	2170	2246	2082	1898	4448	490	
3	foggy	0.915	1.162	0.042	80	270	196	3.2	2.8	2121	2178	2138	1952	4358	540	
4	overcast	0.931	1.088	0.042	80	270	408	4.2	3.2	2103	2165	2139	1950	4018	460	
5	overcast	0.904	1.141	0.042	80	270	339	3.2	1.8	2101	2168	2088	1900	4556	470	
6	overcast	0.890	1.063	0.042	80	260	235	3.2	2.8	2117	2155	2084	1901	4212	550	19
7	overcast	0.954	1.125	0.042	80	260										
8	overcast	0.976	1.026	0.042	80	260										
9	cloudy	0.909	1.076	0.042	80	260	234	3.2	4.0	2170	2209	2072	1884	4490	560	
10	cloudy	0.904	1.063	0.042	80	260	337	3.2	3.2	2132	2139	2066	1872	4676	520	
11	foggy	0.891	1.052	0.042	80	260	316	3.2	3.0	2093	2139	2047	1858	4448	550	
12	foggy	0.890	1.049	0.042	80	260	427	4.2	3.8	2112	2199	2071	1867	4382	560	
13	overcast	0.870		0.042	80	260	511	3.6	3.0	2131	2203	2132	1933	4142	550	28
14		0.950		0.042	80	270										
15		1.031		0.042	80	270										
16	clear	0.953		0.042	80	270	214	1.2		2101	2145	2025	1843	5040	560	
17	overcast	0.934	0.716	0.042	80	270	385	3.8	2.8	2143	2167	2032	1848	4870	580	
18	cloudy	0.918	1.111	0.042	80	270	262	6.4	2.6	2135	2162	2138	1935	5230	560	
19	clear	0.919	1.143	0.042	80	270	359	4.8	2.4	2137	2132	2070	1875	4928	580	
20	clear	0.926	1.054	0.042	80	290	99	12.4	4.0	2161	2225	2084	1887	4828	540	20
21	clear	0.946	1.04	0.042	80	290										
22	clear	0.975	1.109	0.042	80	290										
23	overcast	0.927	1.062	0.042	80	290	210	4.8	5.4	2193	2227	2153	1953	5350	600	
24	rain	0.939	1.102	0.042	80	290	274	15.4	3.0	2224	2264	2110	1916	4982	610	
25	overcast	0.974	1.173	0.042	80	290	285	6.4	4.6	2141	2214	2089	1892	4308	490	
26	clear	0.937	1.056	0.042	80	290	65	3.0	3.2	2092	2139	2092	1897	4760	550	
27	overcast	0.926	1.081	0.042	80	290	280	5.2	3.2	2164	2160	2111	1908	4270	520	32
28	rain	0.942	1.045	0.042	80	290										
29	overcast	0.967	1.078	0.042	80	290										
30	rain	0.941	1.147	0.042	80	290	227	3.2	4.2	2174	2211	2153	1969	3894	540	
31	rain	1.009	1.212	0.042	80	290	200	2.2	2.2	2150	2182	2195	2008	5582	530	
Minimum		0.870	0.716	0.042	80	260	65	1.2	1.8	2092	2132	2025	1843	3894	460	19
Maximum		1.031	1.212	0.042	80	290	511	15.4	5.4	2224	2264	2195	2008	5582	610	32
Average		0.939	1.082	0.042	80	275	279	4.8	3.2	2139	2183	2099	1907	4626	541	25

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	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity	Influent Ammonia mg/L
1			2290							8.5		7.0									
2	91	2111	2103	58927	1558	43	235	37	0.042	8.2	7.0	7.1	6.8	6.7	6.7	6.9	260	120	120	100	54
3	91	1496	2060	57366	1527	31	253	37	0.040	7.8	7.1	7.0	6.9	6.8	6.8	6.9	240	120	120	100	40
4	91	3168	2096	56952	1407	38	215	39	0.040	8.4	7.0	7.1	6.8	6.7	6.8	6.9	380	120	120	100	76
5	91	2556	2036	56966	1596	30	225	35	0.040	7.9	7.1	7.0	6.8	6.8	6.8	6.9	300	120	120	100	16
6	91	1744	1930	57006	1475	28	264	38	0.038	7.9	7.1	7.1	6.9	6.8	6.8	6.9	300	120	100	100	48
7			2069							8.1		7.0									
8			2116							8.1		7.0									
9	91	1774	1971	58433	1573	29	270	36	0.039	8.3	7.2	7.2	7.0	6.9	6.9	6.9	320	120	120	100	58
10	91	2541	1960	56992	1638	28	252	34	0.039	8.3	7.2	7.1	7.0	6.8	6.9	6.9	320	120	120	100	62
11	91	2348	1932	56472	1558	28	269	36	0.039	8.0	7.1	7.0	6.9	6.8	6.9	6.9	300	120	120	100	56
12	90	3169	1930	57526	1535	37	270	37	0.039	8.0	7.0	7.0	6.8	6.7	6.8	6.8	320	120	120	100	60
13	91	3708	1887	57833	1451	0	258	40	0.037	8.0	7.0	7.1	7.0	6.8	6.8	6.9	320	120	120	100	66
14			2139																		
15			2322																		
16	91	1701	2146	56659	1765	0	277	32	0.044	7.8	7.1		6.9	6.9	6.8	6.9	260	120	120	100	40
17	91	2999	2103	57513	1706	23	285	33	0.043	8.4	7.1	6.9	6.9	6.8	6.8	6.9	360	100	120	100	80
18	91	2006	2067	57339	1832	59	262	30	0.040	8.3	7.0	7.0	6.8	6.7	6.8	6.9	340	120	120	100	48
19	91	2752	2069	56966	1726	46	280	32	0.041	8.5	7.1	7.2	6.9	6.8	6.8	7.0	360	120	120	100	70
20	91	765	2240	58527	1691	109	259	33	0.044	7.5	7.0	7.0	6.8	6.7	6.7	6.9	200	120	120	100	32
21			2288							8.5		7.1									
22			2358							7.5		7.0									
23	91	1624	2242	58980	1874	43	279	31	0.043	8.1	7.0	7.0	6.9	6.8	6.8	6.9	300	100	100	100	56
24	91	2146	2271	59888	1745	142	289	32	0.044	8.2	7.1	7.1	6.9	6.8	6.9	7.0	320	120	120	100	62
25	91	2315	2356	58113	1509	63	235	37	0.047	8.1	7.0	7.1	6.8	6.8	6.8	6.8	360	120	120	120	60
26	91	508	2266	56458	1667	26	263	33	0.045	7.5	7.0	7.1	6.8	6.8	6.8	7.0	180	120	100	120	34
27	90	2162	2240	57699	1496	47	246	37	0.044	8.3	6.8	7.1	6.8	6.8	6.7	6.9	360	120	120	120	40
28			2278							7.3		7.1									
29			2339							8.5		7.1									
30	91	1781	2276	58513	1364	31	251	42	0.043	7.8	6.9	7.1	6.8	6.8	6.8	6.9	300	100	100	100	50
31	91	1683	2440	58580	1955	22	241	30	0.046	7.5	6.9	7.1	6.9	6.9	6.8	6.9	240	120	120	100	38
Minimum	90	508	1887	56458	1364	0	215	30	0.038	7.3	6.8	6.9	6.8	6.7	6.7	6.8	180	100	100	100	16
Maximum	91	3708	2440	59888	1955	142	289	42	0.046	8.5	7.2	7.2	7.0	6.9	6.9	7.0	380	120	120	120	80
Average	91	2139	2156	57714	1620	41	258	35	0.042	8.0	7.0	7.1	6.9	6.8	6.8	6.9	302	117	116	103	52

Day	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket fee Total/Solid	#2 Clarifier Blanket feet Total/Solid
1										2.3						0.8/0.8		
2	0.15	0.31	0.95	1.70	4.5	7.7	5.7	4.1	1.7	1.6						0.8/0.8	5'/2.5'	5'/2'
3	0.09	0.49	1.60	2.94	4.4	7.1	5.5	4.5	1.9	2.1						0.8/0.8	5'/2'	6'/2'
4	0.39	0.33	1.85	3.28	3.4	6.8	5.3	4.4	1.6	2.1						0.8/0.8	5'/2'	5'/2.5'
5	0.32	0.59	1.52	2.50	3.6	6.5	5.1	5.0	1.5	1.4						0.8/0.8	5'/2.5	6'/2.5
6	0.27	0.59	1.51	3.10	3.7	7.3	5.0	4.2	1.4	1.9	14.0	3.2				0.8/0.8	5'/2'	6'/2'
7										2.4						0.8/0.8		
8										2.2						0.8/0.8		
9	0.10	0.04	1.66	3.22	2.7	8.5	5.2	4.2	1.3	2.2						0.8/0.8	6'/2'	6'/2'
10	0.14	0.12	0.31	2.62	3.1	8.4	5.1	4.4	1.5	2.1						0.8/0.8	5'/2.5'	5'/2'
11	0.02	0.02	1.51	2.36	3.8	9.6	5.7	5.1	1.3	2.0						0.8/0.8	4.5'/2'	5'/2'
12	0.05	0.04	1.64	2.16	4.6	10.1	6.6	6.0	1.4	1.9						0.8/0.8	5'/2.5'	5.5'/2'
13	0.07	0.06	2.35	3.06	3.8	9.5	6.6	5.2	1.1	2.5	14.0	7.2				0.8/0.8	5.5'/2'	5'/2.5'
14																0.8/0.8		
15																0.8/0.8		
16	0.03	0.02	0.04		5.3	9.5	6.8		0.8							0.8/0.8	5'/2.5'	6'/3'
17	0.10	0.02	1.84	1.25	5.4	10.6	7.0	6.7	2.3	1.6						0.8/0.8	6'/2.5'	5'/2.5'
18	0.03	0.03	1.69	2.34	6.2	11.2	7.8	6.2	1.9	2.1						0.8/0.8	5'/2.5'	6'/3'
19	0.04	0.06	1.64	2.30	5.3	10.8	7.0	5.9	2.1	2.2						0.8/0.8	5'/3'	5'/3'
20	0.01	0.03	2.23	2.18	5.7	10.8	7.7	6.3	2.6	2.1	21.0	2.4				0.8/0.8	5'/2.5'	5'/3'
21										2.6						0.8/0.8		
22										2.6						0.8/0.8		
23	0.03	0.00	1.50	2.08	3.5	8.7	6.4	5.2	2.4	2.6						0.8/0.8	5'/2.5'	5'/2'
24	0.01	0.03	1.67	2.12	4.0	8.5	6.1	5.1	3.1	2.2						0.8/0.8	5'/3'	6'/3'
25	0.21	0.04	1.53	2.03	4.5	10.3	6.9	5.4	2.0	2.2						0.8/0.8	5'/2.5'	6'/3'
26	0.03	0.02	1.42	2.05	5.4	11.5	7.1	5.2	1.6	2.2						0.8/0.8	5'/2.5'	5'/3'
27	0.07	0.09	1.27	1.63	6.1	12.2	8.4	7.4	1.4	2.3	10.0	4.7				0.8/0.8	6'/2.5'	5'/2.5
28										2.2						0.8/0.8		
29										2.1						0.8/0.8		
30	0.10	0.07	1.47	2.16	5.6	11.6	7.9	6.2	1.7	2.0						0.8/0.8	6'/3'	6'/2.5'
31	0.21	0.00	1.05	1.72	4.7	11.0	7.5	6.6	1.1	1.9						0.8/0.8	5.5'/2'	6'/3'
Minimum	0.01	0.00	0.04	1.25	2.7	6.5	5.0	4.1	0.8	1.4	10.0	2.4	0.0	0.0	0.0			
Maximum	0.39	0.59	2.35	3.28	6.2	12.2	8.4	7.4	3.1	2.6	21.0	7.2	0.0	0.0	0.0			
Average	0.11	0.14	1.47	2.32	4.5	9.5	6.5	5.4	1.7	2.1	14.8	4.4	#DIV/0!	#DIV/0!	#DIV/0!			

Month	April	Year	2020	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	Clear	0.974	1.089	0.042	80	290	200	3.4	1.6	2110	2115	2136	1940	4600	520	
2	Clear	0.950	1.120	0.042	80	290	356	1.4	1.4	2093	2143	2167	1974	5396	540	
3	Clear	0.935	1.023	0.042	80	360	296	2.0	2.4	2115	2167	2202	2006	4046	530	20
4	Rain	0.996	1.040	0.042	80	360										
5	Rain	1.190	1.114	0.042	80	360										
6	Clear	1.078	1.184	0.042	80	360	215	3.0	1.4	2167	2147	2130	1953	4730	490	
7	Clear	1.019	1.197	0.042	80	360	230	3.2	2.0	2203	2143	2142	1958	4908	520	
8	Clear	1.012	1.146	0.042	80	360	330	2.6	3.0	2118	2134	2223	2023	4054	530	
9	Overcast	0.984	1.182	0.042	80	360	493	4.4	2.6	2153	2221	2221	2037	5160	520	
10	Overcast	0.979	1.111	0.042	80	310	258	6.4	3.4	2137	2215	2126	1939	5060	520	35
11	Overcast	1.010	1.140	0.042	80	310										
12	Overcast	0.996	1.077	0.042	80	310										
13	Clear	0.974	1.100	0.042	80	310	343	2.0	0.6	2116	2184	2238	2052	5276	500	
14	Clear	0.942	1.053	0.042	80	310	220	1.6	1.6	2104	2106	2198	2014	4676	490	
15	Overcast	0.937	1.083	0.042	80	310	304	0.8	1.2	2071	2085	2092	1914	4812	480	
16	Clear	0.932	1.089	0.042	80	310	312	4.0	3.2	2102	2181	2162	1980	4548	450	
17	Overcast	0.927	1.069	0.042	80	340	245	4.6	3.2	2146	2136	2105	1925	4564	430	22
18	Overcast	0.923	1.030	0.042	80	340										
19	Overcast	0.966	0.987	0.042	80	340										
20	Overcast	0.927	1.010	0.042	80	340	321	2.8	3.0	2174	2207	2198	2008	4864	420	
21	Clear	0.907	1.050	0.042	80	340	171	4.0	3.0	2100	2177	2092	1924	4154	390	
22	Rain	0.911	1.075	0.042	80	340	206	4.8	3.2	2065	2120	2104	1930	4566	390	
23	Overcast	0.921	1.081	0.042	80	340	290	2.4	3.0	1965	2062	2143	1957	3690	380	
24	Clear	0.897	0.916	0.042	80	340	288	3.0	2.8	2079	2179	2021	1848	5154	370	22
25	Overcast	0.925	0.759	0.042	80	340										
26	Overcast	0.940	0.760	0.042	80	340										
27	Overcast	0.898	0.799	0.042	80	340	234	3.4	0.4	1996	2046	2050	1886	3826	360	
28	Clear	0.873	0.464	0.040	80	340	198	6.0	1.6	2020	2071	2033	1879	4498	350	
29	Clear	0.890	0.000	0.040	80	340	222	4.6		1962	2052	1996	1838	4618	350	
30	Clear	0.884	0.467	0.040	80	340	390	6.0	2.8	1948	2014	1993	1833	4358	340	
Minimum		0.873	0.000	0.040	80	290	171	0.8	0.4	1948	2014	1993	1833	3690	340	20
Maximum		1.190	1.197	0.042	80	360	493	6.4	3.4	2203	2221	2238	2052	5396	540	35
Average		0.957	0.974	0.042	80	334	278	3.5	2.3	2088	2132	2126	1946	4616	449	25

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	Influent Alkalinity mg/L	Sec. Eff. Alkalinity mg/L	AB1 Alkalinity	AB2 Alkalinity
1	91	1625	2356	56378	1611	31	243	34	0.045	7.9	6.9	7.0	6.9	6.9	6.8	6.9	280	120	120	100
2	91	2821	2298	56525	1890	13	249	30	0.044	8.4	6.9	6.8	6.8	6.8	6.8	6.8	340	120	120	100
3	91	2308	2807	57139	1417	17	241	40	0.052	7.4	6.9	7.0	6.8	6.8	6.8	6.9	280	120	120	100
4			2990							8.4										
5			3573							8.2										
6	92	1933	3237	57566	1657	30	230	34	0.062	7.7	6.9	7.0	6.8	6.8	6.8	6.8	260	120	120	100
7	91	1955	3059	57993	1719	32	243	33	0.059	8.4	6.8	7.1	6.8	6.8	6.8	6.8	360	120	120	100
8	91	2785	3038	56739	1420	25	238	39	0.056	7.9	6.9	7.0	6.8	6.8	6.8	6.8	360	120	120	100
9	92	4046	2954	58367	1807	43	234	32	0.054	8.1	6.9	6.9	6.9	6.8	6.8	6.9	380	120	120	100
10	91	2107	2531	58073	1772	59	245	32	0.049	7.5	6.9	7.0	6.8	6.8	6.8	6.8	280	120	120	120
11			2611							8.1		7.0								
12			2575							8.4		7.0								
13	92	2786	2518	57379	1848	18	223	31	0.046	8.5	6.9	7.0	6.9	6.9	6.9	6.9	360	120	120	120
14	92	1728	2435	56178	1638	14	223	34	0.045	8.4	6.9	7.0	6.9	6.9	6.8	6.9	360	120	120	120
15	91	2376	2423	55458	1686	7	229	33	0.047	7.8	6.9	7.0	6.9	6.9	6.9	6.9	300	120	120	120
16	92	2425	2410	57152	1593	36	208	35	0.046	8.2	6.9	7.1	6.8	6.8	6.8	6.8	320	120	120	120
17	91	1894	2629	57139	1599	41	204	35	0.051	7.4	6.9	7.2	6.9	6.9	6.9	6.9	320	120	120	120
18			2617							8.3		7.2								
19			2739							8.0		7.2								
20	91	2482	2629	58460	1704	24	191	34	0.049	8.2	6.9	7.3	6.9	6.9	6.9	6.9	320	120	120	120
21	92	1294	2572	57072	1455	35	186	38	0.050	7.7	6.9	7.2	6.9	6.9	6.9	6.9	340	120	120	120
22	92	1565	2583	55845	1599	43	185	34	0.050	7.4	7.0	7.2	6.9	6.9	6.9	6.9	240	120	120	120
23	91	2228	2612	53736	1293	22	177	41	0.050	8.2	7.0	7.3	6.9	6.9	6.9	6.9	340	120	120	120
24	91	2155	2544	56819	1805	23	183	31	0.052	8.2	7.1	7.3	7.0	7.0	7.0	7.0	280	120	120	120
25			2623							7.5		7.3								
26			2665							8.5		7.3								
27	92	1753	2546	53936	1340	23	176	40	0.051	7.8	6.9	7.5	6.8	6.8	6.8	6.8	300	100	100	100
28	92	1442	2475	54590	1501	23	172	36	0.049	7.4	7.0	7.3	6.9	6.9	6.9	6.9	260	140	120	120
29	92	1648	2524	53563	1541	0	175	35	0.051	7.5	6.9		6.9	6.9	6.9	6.9	240	120	120	120
30	92	2875	2507	52869	1454	23	171	36	0.051	7.5	6.9	7.0	6.9	6.9	6.9	6.9	300	120	120	100
Minimum	91	1294	2298	52869	1293	0	171	30	0.047	7.4	6.8	6.8	6.8	6.8	6.8	6.8	240	100	100	100
Maximum	92	4046	3573	58460	1890	59	249	41	0.065	8.5	7.1	7.5	7.0	7.0	7.0	7.0	380	140	120	120
Average	92	2192	2669	56317	1607	26	210	35	0.051	8.0	6.9	7.1	6.9	6.9	6.9	6.9	310	120	119	112

Day	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	52	0.00	0.00	1.15	1.88	4.6	10.4	7.1	5.7	1.2	1.7						0.8/0.8	6'/3'	5.5'/2'
2	64	0.22	0.05	1.19	2.10	5.1	11.1	7.4	5.6	1.2	1.7						0.8/0.8	6'/2'	6'/2.5'
3	42	0.02	0.04	0.75	1.84	5.6	11.4	7.9	5.8	0.7	1.6	5.4	5.3				0.8/0.8	6'/3'	6'/2.5'
4											1.3						0.8/0.8		
5											0.9						0.8/0.8		
6	42	0.02	0.02	0.55	0.72	4.2	10.1	6.7	5.9	0.8	0.9						0.8/0.8	5'/1.5'	5.5'/2'
7	58	0.02	0.02	0.43	0.70	3.7	9.7	6.3	5.4	1.1	1.4						0.8/0.8	5'/2'	5.5'/2'
8	54	0.22	0.10	0.75	0.82	2.9	7.2	5.0	4.5	0.9	1.2						0.8/0.8	5'/1.5'	5'/2'
9	66	0.03	0.05	0.64	0.86	2.2	4.2	3.8	3.8	0.9	1.4						0.8/0.8	5'/1.5'	5.5'/2'
10	40	0.00	0.01	1.43	0.95	2.0	3.2	3.0	3.4	1.7	1.6	13.0	4.6				0.8/0.8	5'/2'	4.5'/2'
11											1.6						0.8/0.8		
12											1.6						0.8/0.8		
13	64	0.02	0.02	0.33	0.04	1.1	0.9	1.3	2.1	1.1	1.0						0.8/0.8	4.5'/1.5'	5'/2'
14	66	0.05	0.09	0.42	0.69	1.2	1.0	1.4	2.2	0.7	1.3						0.8/0.8	4'/2'	4.5'/1.5'
15	52	0.03	0.02	0.11	0.04	1.0	1.2	1.6	2.0	0.5	0.8						0.8/0.8	4'/2'	4.5'/2'
16	64	0.18	0.00	1.05	1.74	1.3	1.8	1.5	2.4	1.2	1.7						0.8/0.8	4'/2'	4'/1.5'
17	42	0.06	0.07	0.93	1.29	1.1	1.3	1.7	2.8	1.1	1.9	6.2	5.4				0.8/0.8	3.5'/2'	4'/2'
18											1.7						0.8/0.8		
19											2.0						0.8/0.8		
20	64	0.07	0.21	2.05	1.87	1.4	1.7	2.2	2.5	1.3	1.7						0.8/0.8	3.5'/2'	4'/2'
21	40	0.30	0.31	1.02	1.74	1.1	1.4	1.8	2.5	1.2	1.8						0.8/0.8	3'/1'	3.5'/1.5'
22	36	0.06	0.07	1.16	1.68	2.0	2.3	2.4	2.5	1.3	1.7						0.8/0.8	3'/0.5'	3'/1'
23	52	0.07	0.06	0.75	1.36	3.2	3.2	3.1	2.8	0.9	1.7						0.8/0.8	3'/1'	3'/1'
24	44	0.10	0.09	0.66	0.95	2.8	3.2	3.7	3.5	0.9	1.7						0.8/0.8	3'/1.5'	3.5'/1'
25											2.2						0.8/0.8		
26											1.4						0.8/0.8		
27	50	0.11	0.02	0.69	0.28	3.7	5.2	4.7	2.5	1.7	1.5						0.8/0.8	3'/1'	3'/1'
28	32	0.04	0.03	1.64	1.38	4.0	5.3	4.4	3.0	2.0	1.7						0.8/0.8	3'/1'	3'/1'
29	32	0.03	0.01	0.08		3.7	5.7	5.3		2.1							0.8/0.8	3'/1'	3'/1'
30	44	0.04	0.03	0.07	0.09	5.3	7.3	5.3	4.3	2.0	1.4						0.8/0.8	2.5'/1.5'	2'/1.5'
Minimum	32	0.00	0.00	0.07	0.04	1.0	0.9	1.3	2.0	0.5	0.8	5.4	4.6	0.0	0.0	0.0			
Maximum	66	0.30	0.31	2.05	2.10	5.6	11.4	7.9	5.9	2.1	2.2	13.0	5.4	0.0	0.0	0.0			
Average	50	0.08	0.06	0.81	1.10	2.9	4.9	4.0	3.6	1.2	1.5	8.2	5.1	#DIV/0!	#DIV/0!	#DIV/0!			

Month	May	Year	2020	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier blanket feet Total/Solid	#2 Clarifier blanket feet Total/Solid
1	clear	0.882	0.746	0.042	80	320	300	6.2	1.2	1866	1963	1911	1753	3922	340	25	92	2207	2354	51094	1374	39	178	36	0.050	7.5	7.0	7.2	6.9	6.9	6.9	6.9	100	120	120	120	42	0.05	0.02	0.03	0.11	4.6	6.6	5.8	4.6	1.8	1.4	6.8	3.8				0.8/0.8	2.5'/1.5'	3'/1.5'
2	overcast	0.913	0.737	0.038	80	320													2437								8.5		7.1																	1.1						0.8/0.8		
3	clear	0.949	0.736	0.038	80	320													2533								8.5		7.0																	0.9						0.8/0.8		
4	clear	0.885	0.662	0.037	80	320	276	4.8	1.0	1883	1917	1871	1713	3882	320		92	2037	2362	50707	1198	27	171	41	0.052	8.3	6.8	7.2	6.8	6.8	6.8	6.8	400	120	120	100	66	0.02	0.04	0.05	0.00	5.4	7.4	7.1	3.9	1.4	0.9						0.8/0.8	2'/1'	2.5'/1.5'
5	clear	0.869	0.652	0.036	80	320	308	2.0	1.2	1901	1996	1924	1766	4244	330		92	2232	2319	52002	1274	11	172	40	0.049	7.8	6.9	7.2	6.9	6.9	6.9	6.9	280	120	120	120	54	0.00	0.02	0.00	0.00	5.5	7.1	7.0	3.2	0.9	0.7						0.8/0.8	2.5'/1.5'	2'/1.5'
6	clear	0.872	0.766	0.036	80	320	327	4.0	0.6	1866	1913	1997	1840	3502	330		92	2378	2327	50427	1051	26	165	47	0.047	8.3	6.9	7.2	6.9	6.9	6.9	6.9	360	120	120	120	70	0.06	0.06	0.03	0.01	5.2	7.5	7.1	3.2	1.5	0.7						0.8/0.8	3'/1.5'	2.5'/1.5'
7	clear	0.874	0.836	0.036	80	320	296	4.4	0.6	1923	1975	1849	1703	3534	300		92	2158	2333	52015	1061	31	162	48	0.051	7.9	6.9	7.1	6.9	6.9	6.9	6.9	340	120	120	120	48	0.10	0.12	0.03	0.00	5.1	7.4	7.4	4.1	1.4	0.8						0.8/0.8	1'/1'	1.5'/1'
8	clear	0.878	0.804	0.036	80	330	298	2.6	1.0	1862	1969	1912	1756	3972	310	22	92	2182	2416	51121	1193	17	162	42	0.052	7.7	6.9	6.9	6.9	6.9	6.9	6.9	320	120	120	120	36	0.08	0.03	0.03	0.00	5.5	8.1	7.4	4.7	1.1	1.0	4.5	6.2				0.8/0.8	1.5'/1	1.5'/1.5'
9	overcast	0.903	0.775	0.036	80	330													2485								8.3		7.1																	0.9						0.8/0.8		
10	overcast	0.923	0.768	0.036	80	330													2540								7.6		7.1																	1.0						0.8/0.8		
11	overcast	0.894	0.850	0.036	80	330	246	4.2	0.6	1908	2006	1996	1832	3946	320		92	1834	2460	52228	1185	30	160	43	0.050	7.8	6.9	7.2	6.8	6.8	6.8	6.8	300	120	120	120	52	0.04	0.02	0.04	0.00	5.1	8.1	7.0	4.4	1.6	1.0						0.8/0.8	2.5'/1.5'	2'/1'
12	overcast	0.893	0.900	0.034	80	330	352	4.4	1.6	1830	1831	1914	1768	3770	290		92	2622	2458	48852	1069	33	152	44	0.052	8.2	6.9	6.9	6.9	6.9	6.9	6.9	360	100	120	100	64	0.05	0.06	0.00	0.00	6.1	8.8	8.0	4.7	1.9	1.3						0.8/0.8	2'/1'	1.5'/1.5'
13	rain	0.903	0.906	0.034	80	330	246	5.6	1.2	1859	1900	1940	1796	3968	290		93	1853	2485	50160	1125	42	149	43	0.052	8.2	6.9	7.0	6.9	6.9	6.9	6.9	340	100	100	100	58	0.04	0.01	0.02	0.00	5.6	8.0	7.4	4.9	1.9	1.5						0.8/0.8	3'/1.5'	2.5'/1.5'
14	rain	0.904	0.905	0.032	80	330	365	8.2	2.6	1890	1988	1954	1800	4186	290		92	2752	2488	51748	1117	62	148	44	0.052	8.3	7.1	7.1	6.9	6.8	6.8	6.9	300	100	120	100	60	0.01	0.01	0.00	0.00	7.4	9.7	8.0	4.9	2.4	1.6						0.8/0.8	3'/1'	2'/1'
15	overcast	0.874	0.742	0.031	80	310	286	6.2	2.2	1864	1839	1810	1672	3584	280	16	92	2085	2260	49413	927	38	155	51	0.051	7.8	6.9	6.9	6.9	6.9	6.9	6.9	300	100	100	100	32	0.25	0.16	0.03	0.03	5.8	8.5	8.6	4.3	1.6	1.3	5.3	6.0				0.8/0.8	2'/1'	2.5'/1.5'
16	overcast	0.921	0.597	0.030	80	310													2381								7.6		7.2																	1.2						0.8/0.8		
17	rain	1.026	0.589	0.030	80	310													2653								8.1		7.2																	1.1						0.8/0.8		
18	rain	1.068	0.806	0.029	80	310	268	6.8	0.2	1908	1962	1937	1784	4132	280		92	2387	2761	51641	999	46	145	49	0.058	7.9	6.7	7.3	6.7	6.7	6.7	6.7	280	120	120	120	54	0.10	0.17	0.07	0.00	11.1	13.1	10.6	2.3	3.9	1.1						0.8/0.8	3'/1'	2.5'/1.5
19	overcast	1.036	0.921	0.026	80	310	271	8.2	1.6	1705	1829	1824	1691	3934	270		93	2342	2678	47158	853	63	148	51	0.059	7.8	6.8	7.0	6.8	6.8	6.8	6.8	260	100	120	100	42	0.03	0.03	0.03	0.01	7.8	10.0	9.7	4.7	2.2	1.3						0.8/0.8	3'/1.5'	3'/1'
20	overcast	0.976	0.911	0.024	80	310	247	4.6	1.8	1910	1848	1858	1711	3374	280		92	2011	2523	50147	675	35	151	71	0.055	7.9	6.9	7.1	6.9	6.9	6.9	6.9	320	120	120	120	46	0.03	0.03	0.02	0.00	7.0	9.3	9.2	4.0	1.9	1.1						0.8/0.8	2'/1'	2'/1'
21	clear	0.964	0.905	0.024	80	310	420	3.6	1.4	1857	1861	1841	1702	3654	270		92	3377	2492	49613	731	27	147	65	0.055	8.2	6.8	7.0	6.8	6.8	6.8	6.8	340	120	120	120	72	0.12	0.14	0.04	0.02	6.0	8.1	8.2	4.4	1.7	1.0						0.8/0.8	2'/1'	2'/0.5'
22	clear	0.920	0.886	0.022	80	250	219	2.6	0.8	1908	1881	1877	1729	3906	270	24	92	1680	1918	50560	717	19	144	69	0.042	7.4	6.8	6.9	6.8	6.8	6.8	6.8	280	100	100	100	34	0.20	0.09	0.03	0.02	6.9	9.6	8.5	4.4	1.5	1.3	5.1	5.0				0.8/0.8	2'/1'	2'/1'
23	clear	0.927	0.854	0.020	80	250													1933																													1.0						0.8/0.8		
24	clear	0.903	0.854	0.020	80	250													1883																													1.0						0.8/0.8		
25	clear	0.952	0.848	0.020	80	250													1985																													1.2						0.8/0.8		
26	overcast	0.920	0.909	0.020	80	250	253	4.4	0.8	2004	1899	1961	1815	3706	270		93	1941	1918	52082	618	33	138	80	0.040	7.9	7.0	7.0	6.9	6.9	6.9	6.9	280	120	120	120	54	0.02	0.10	0.05	0.02	6.8	9.4	8.9	5.0	1.6	1.1						0.8/0.8	2'/1'	2.5'/1.5'
27	overcast	0.906	0.983	0.019	80	250	401	2.2	0.8	1825	1845	1845	1707	3968	230		93	3030	1889	48972	629	18	125	76	0.041	8.3	6.9	7.0	6.8	6.8	6.8	6.8	380	120	120	120	72	0.04	0.08	0.00	0.00	5.6	8.3	7.6	4.8	1.2	1.1						0.8/0.8	2'/0.5'	2'/0.5'
28	clear	0.900	0.987	0.016	80	250	222	3.6	1.4	1928	1983	1964	1815	4066	250		92	1666	1877	52188	543	30	127	91	0.039	8.0	6.9	6.9	6.8	6.8	6.8	6.8	300	120	120	100	56	0.07	0.04	0.01	0.00	6.2	9.1	7.8	4.6	1.0	1.1						0.8/0.8	2'/1'	2'/0.5'
29	clear	0.902	0.964	0.016	80	540	257	2.2	1.0	1880	1873	1951	1798	4204	240	38	92	1933	4062	50080	561	18	123	87	0.085	8.0	6.8	6.9	6.8	6.8	6.8	6.8	320	120	120	100	50	0.11	0.18	0.07	0.04	6.8	9.0	8.0	4.7	1.3	1.0	5.1	6.0				0.8/0.8	2.5'/1.5'	2'/1'
30	rain	0.995	0.940	0.016	80	540													4481								7.9		6.9																	1.2						0.8/0.8		
31	overcast	1.044	0.931	0.016	80	540													4702								8.2		6.9																	1.1						0.8/0.8		
Minimum		0.869	0.589	0.016	80	250	219	2.0	0.2	1705	1829	1810	1672	3374	230	16	92	1666	1877	47158	543	11	123	36	0.042	7.4	6.7	6.9	6.7	6.7	6.7	6.7	100	100	100	100	32	0.00	0.01	0.00	0.00	4.6	6.6	5.8	2.3	0.9	0.7	4.5	3.8	0.0	0.0	0.0			
Maximum		1.068	0.987	0.042	80	540	420	8.2	2.6	2004	2006	1997	1840	4244	340	38	93	3377	4702	52228	1374	63	178	91	0.096	8.5	7.1	7.3	6.9	6.9	6.9	6.9	400	120	120	120	72	0.25	0.18	0.07	0.11	11.1	13.1	10.6	5.0	3.9	1.6	6.8	6.2	0.0	0.0	0.0			
Average		0.928	0.828	0.029	80	325	293	4.5	1.2	1879	1914	1907	1758	3873	288	25	92	2235	2529	50610	945	32	151	56	0.054	8.0	6.9	7.1	6.9	6.8	6.8	6.9	308	114	117	111	53	0.07	0.07	0.03	0.01	6.3	8.7	8.0	4.3	1.7	1.1	5.4	5.4	#DIV/0!	#DIV/0!	#DIV/0!			

Month June Year 2020 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	Clear	0.982	0.692	0.016	80	540	304	2.2	1.0	2002	2063	1983	1835	4110	240	
2	Clear	0.941	0.468	0.016	80	540	247	1.8	1.4	1965	2007	1928	1780	4078	220	
3	Clear	0.934	0.895	0.016	80	540	288	2.8	1.2	2102	2067	2088	1917	4038	230	
4	Clear	0.922	0.880	0.016	80	540	217	2.8	0.4	2025	2094	2055	1885	4256	240	
5	Overcast	0.905	0.940	0.016	80	280	248	3.6	0.4	2022	2156	2190	2012	4098	240	24
6	Clear	0.929	1.032	0.016	80	280										
7	Rain	0.975	1.023	0.016	80	280										
8	Clear	0.930	0.934	0.016	80	280	389	1.2	0.4	2125	2227	2118	1940	4552	250	
9	Clear	0.918	0.837	0.016	80	280	227	6.0	1.0	1902	2030	2002	1838	4712	240	
10	Clear	0.919	0.850	0.016	80	280	266	3.4	0.8	2067	2214	2190	2005	4294	240	
11	Overcast	0.912	0.849	0.016	80	280	361	1.0	0.2	2116	2262	2253	2075	4390	250	
12	Rain	0.891	1.074	0.016	80	340	290	4.2	3.8	2237	2272	2144	1953	4936	250	17
13	Clear	0.911	1.250	0.016	80	340										
14	Clear	0.926	1.236	0.016	80	340										
15	Rain	0.900	1.134	0.016	80	340	288	2.0	2.2	2298	2400	2296	2080	5004	270	
16	Clear	0.883	1.087	0.016	80	340	411	0.6	0.2	2243	2417	2174	1984	5016	270	
17	Clear	0.884	1.103	0.018	80	340	362	2.4	0.4	2378	2276	2205	2004	5728	280	
18	Clear	0.882	1.064	0.020	80	340	220	3.2	0.2	2312	2328	2276	2054	5356	280	
19	Clear	0.874	1.218	0.021	80	280	296	2.4	0.8	2299	2470	2460	2214	5100	290	22
20	Clear	0.863	1.351	0.022	80	280										
21	Overcast	0.901	1.321	0.022	80	280										
22	Clear	0.915	1.187	0.024	80	280	437	0.8	1.2	2376	2512	2425	2186	5163	310	
23	Clear	0.885	0.936	0.026	80	280	425	0.4	0.2	2411	2454	2396	2145	5402	310	
24	Clear	0.881	0.957	0.026	80	280	139	0.4	0.2	2265	2400	2309	2087	5072	310	
25	Clear	0.877	0.946	0.026	80	280	431	0.8	0.4	2294	2299	2416	2203	5526	320	
26	foggy	0.862	0.936	0.026	80	280	547	0.2	0.2	2394	2321	2344	2113	5742	320	34
27	Overcast	0.874	0.971	0.026	80	280										
28	Clear	0.903	0.963	0.026	80	280										
29	Clear	0.862	0.909	0.026	80	280	321	2.2	1.0	2401	2471	2418	2179	5474	330	
30	Clear	0.846	0.791	0.026	80	280	279	1.4	0.6	2367	2291	2419	2193	6702	330	
Minimum		0.846	0.468	0.016	80	280	139	0.2	0.2	1902	2007	1928	1780	4038	220	17
Maximum		0.982	1.351	0.026	80	540	547	6.0	3.8	2411	2512	2460	2214	6702	330	34
Average		0.903	0.994	0.020	80	329	318	2.1	0.8	2209	2274	2231	2031	4943	274	24

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	93	2490	4423	54243	548	13	121	97	0.090	7.9	6.8	7.0	6.8	6.8	6.8	6.8
2	92	1938	4238	53002	544	7	114	96	0.089	8.2	6.9	7.0	6.8	6.8	6.8	6.9
3	92	2243	4206	55631	539	21	110	99	0.082	7.8	7.0	7.0	6.9	6.9	6.8	6.9
4	92	1669	4152	54964	568	21	117	93	0.083	8.2	7.0	7.0	6.9	6.9	6.9	6.9
5	92	1872	2113	55751	547	28	110	97	0.039	8.2	6.9	7.2	6.9	6.9	6.9	6.9
6			2169							8.3		6.9				
7			2277							8.4		7.0				
8	92	3017	2172	58073	607	9	118	94	0.042	8.1	6.9	7.0	6.8	6.8	6.8	6.8
9	92	1738	2144	52469	629	42	120	78	0.044	8.4	6.9	7.1	6.9	6.8	6.8	6.8
10	92	2039	2146	57126	573	24	110	96	0.040	7.7	6.9	7.1	6.8	6.8	6.8	6.8
11	92	2746	2130	58420	586	7	111	99	0.038	8.1	7.0	7.1	6.9	6.9	6.9	6.9
12	91	2155	2527	60168	659	38	117	86	0.048	8.0	6.9	7.2	6.9	6.9	6.9	7.0
13			2583							8.4		7.0				
14			2626							8.1		7.0				
15	91	2162	2552	62690	668	19	118	91	0.046	7.8	6.9	6.9	6.9	6.9	6.9	6.9
16	91	3027	2504	62183	669	5	124	92	0.047	8.1	7.0	6.9	7.0	7.0	7.0	7.0
17	91	2669	2507	62103	860	22	127	70	0.047	8.1	6.9	6.9	6.9	6.9	6.9	6.9
18	90	1618	2501	61916	893	28	123	67	0.046	7.7	6.9	6.9	6.9	6.9	6.9	6.9
19	90	2158	2041	63638	893	24	118	69	0.035	8.1	7.0	6.8	6.9	6.9	6.9	6.9
20			2015							8.2		7.0				
21			2104							7.4		6.8				
22	90	3335	2137	65225	1033	8	128	63	0.037	8.2	6.9	7.0	6.9	6.9	6.9	6.9
23	90	3137	2067	64919	1171	3	129	55	0.036	8.0	7.0	6.9	6.9	6.9	6.9	6.9
24	90	1021	2057	62250	1100	3	134	56	0.037	7.5	7.0	6.9	7.0	7.0	7.0	7.0
25	91	3152	2048	61289	1198	6	132	51	0.035	7.8	7.1	7.0	7.0	7.0	7.0	7.0
26	90	3932	2013	62917	1245	2	137	50	0.036	8.2	7.1	7.1	7.0	7.0	6.9	7.0
27			2041							8.0		7.0				
28			2109							8.3		7.1				
29	90	2308	2013	65012	1187	17	136	54	0.035	8.0	7.0	7.0	7.0	7.0	7.0	7.0
30	91	1969	1976	62156	1453	9	136	43	0.034	7.5	7.1	7.1	7.0	7.0	7.0	7.0
Minimum	90	1021	1976	52469	539	2	110	43	0.042	7.4	6.8	6.8	6.8	6.8	6.8	6.8
Maximum	93	3932	4423	65225	1453	42	137	99	0.075	8.4	7.1	7.2	7.0	7.0	7.0	7.0
Average	91	2382	2486	59825	826	16	122	77	0.046	8.0	7.0	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
1	320	100	120	100	64	0.18	0.10	0.09	0.07	5.9	9.3	8.4	4.4	0.7	1.0
2	300	100	120	100	54	0.14	0.29	0.11	0.15	5.9	8.8	8.2	4.2	0.9	0.9
3	320	100	120	100	50	0.05	0.07	0.05	0.02	6.7	9.4	8.2	4.4	1.1	0.8
4	380	100	120	100	72	0.09	0.04	0.03	0.00	7.0	9.8	8.5	4.3	0.7	1.0
5	400	100	100	100	66	0.06	0.04	0.02	0.01	6.0	9.1	8.1	4.7	0.9	0.9
6															0.9
7															1.0
8	400	100	120	100	72	0.07	0.04	0.03	0.02	5.4	8.6	7.4	4.6	0.6	1.0
9	340	100	120	100	78	0.15	0.04	0.04	0.00	5.2	7.6	7.1	3.9	1.1	1.0
10	360	120	120	120	46	0.03	0.04	0.02	0.03	4.2	7.4	6.5	4.5	1.2	0.9
11	380	120	120	120	70	0.02	0.02	0.00	0.00	2.7	5.9	5.3	4.3	0.7	1.0
12	280	120	120	120	54	0.15	0.14	0.01	0.00	2.6	5.6	4.7	3.8	0.9	0.9
13															0.9
14															0.9
15	340	120	120	120	52	0.00	0.02	0.00	0.00	0.8	2.3	1.4	2.7	0.9	0.8
16	340	120	140	120	76	0.00	0.00	0.01	0.00	1.0	2.5	1.7	3.2	0.3	0.7
17	360	140	140	140	62	0.09	0.03	0.00	0.00	1.3	2.2	2.0	3.3	1.1	0.8
18	300	120	140	120	56	0.02	0.02	0.02	0.02	2.6	1.8	2.8	2.7	0.7	1.0
19	300	140	140	140	36	0.00	0.01	0.00	0.00	1.1	2.6	2.0	3.9	0.9	0.7
20															1.1
21															1.1
22	320	140	140	140	74	0.00	0.00	0.05	0.00	0.8	1.9	1.8	2.4	0.3	1.2
23	380	140	140	120	58	0.16	0.05	0.02	0.02	1.4	2.0	1.9	2.5	0.3	1.0
24	300	140	140	140	38	0.02	0.00	0.02	0.00	1.4	1.8	1.5	2.5	0.8	1.0
25	320	140	140	140	60	0.23	0.00	0.01	0.00	1.4	2.4	1.6	2.3	0.2	0.9
26	400	140	140	140	64	0.30	0.34	0.06	0.04	1.0	2.2	1.9	1.8	0.3	1.1
27															1.2
28															1.9
29	360	140	140	140	60	0.31	0.24	0.01	0.00	1.4	2.4	2.0	2.1	0.9	2.0
30	320	140	140	140	46	0.01	0.00	0.05	0.00	0.8	2.5	2.3	2.3	0.4	1.8
Minimum	280	100	100	100	36	0.00	0.00	0.00	0.00	0.8	1.8	1.4	1.8	0.2	0.7
Maximum	400	140	140	140	78	0.31	0.34	0.11	0.15	7.0	9.8	8.5	4.7	1.2	2.0
Average	342	122	129	121	59	0.09	0.07	0.03	0.02	3.0	4.9	4.3	3.4	0.7	1.0

Day	Sec. Eff BOD	Final Eff. BOD	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1						0.8/0.8	2.5'/1'	2'/1'
2						0.8/0.8	2'/1'	3'/0.5'
3						0.8/0.8	2'/1.5'	2.5'/1'
4						0.8/0.8	2'/1'	2.5'/0.5'
5	2.9	6.7				0.8/0.8	2'/1'	2.5'/1'
6						0.8/0.8		
7						0.8/0.8		
8						0.8/0.8	2.5'/1'	2'/0.5'
9						0.8/0.8	2.5'/1.5'	2'/1'
10						0.8/0.8	2'/1'	2.5'/1'
11						0.8/0.8	1.5'/0.5'	1'/0.5'
12	6.8	5.3				0.8/0.8	3'/1.5'	3'/1'
13						0.8/0.8		
14						0.8/0.8		
15						0.8/0.8	2.5'/1.5'	2'/1'
16						0.8/0.8	3'/1'	2.5'/1.5'
17						0.8/0.8	3'/1.5'	2.5'/1.5'
18						0.8/0.8	3'/1.5'	3'/1'
19	6.2	4.9				0.8/0.8	3'/1'	3.5'/1.5'
20						0.8/0.8		
21						0.8/0.8		
22						0.8/0.8	3'/1.5'	3'/1.5'
23						0.8/0.8	3.5'/2'	3'/2'
24						0.8/0.8	3'/1.5'	3'/2'
25						0.8/0.8	3'/2'	3.5'/2'
26	0.0	6.2				0.8/0.8	3'/1.5'	1.5'/0.5'
27						0.8/0.8		
28						0.8/0.8		
29						0.8/0.8	4'/2'	3.5'/0.5'
30						0.8/0.8	3'/1'	2.5'/1'
Minimum	0.0	4.9	0.0	0.0	0.0			
Maximum	6.8	6.7	0.0	0.0	0.0			
Average	4.0	5.8	#DIV/0!	#DIV/0!	#DIV/0!			

Month	July	Year	2020	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	Clear	0.846	0.851	0.026	80	280	277	2.0	0.2	2377	2535	2316	2088	6904	330	
2	Clear	0.852	0.885	0.026	80	270	440	0.8	0.6	2544	2319	2435	2190	6394	350	29
3	Overcast	0.844	0.792	0.026	80	270										
4	Clear	0.822	0.786	0.026	80	270										
5	Overcast	0.882	0.786	0.026	80	270										
6	Clear	0.886	0.916	0.026	80	270	335	1.6	0.2	2540	2383	2427	2188	6944	350	
7	Clear	0.863	1.049	0.026	80	270	386	3.0	2.4	2554	2294	2201	1988	5872	330	
8	Overcast	0.853	1.071	0.026	80	270	290	4.0	2.8	2649	2561	2522	2265	7286	360	
9	Overcast	0.850	1.069	0.028	80	270	355	2.6	0.4	2612	2574	2454	2204	6580	360	
10	Overcast	0.845	0.813	0.030	80	290	369	6.6	3.0	2540	2563	2347	2112	5594	350	23
11	Overcast	0.850	0.629	0.030	80	290										
12	Clear	0.888	0.627	0.030	80	290										
13	Overcast	0.863	0.837	0.030	80	290	327	1.4	0.6	2567	2555	2423	2194	7018	390	
14	Overcast	0.843	0.944	0.030	80	290	971	0.8	0.4	2541	2396	2401	2158	7370	350	
15	Clear	0.858	0.949	0.030	80	290	174	2.6	0.4	2528	2604	2555	2283	6712	370	
16	Overcast	0.853	0.895	0.030	80	290	462	2.6	1.2	2549	2525	2511	2250	6338	380	
17	Overcast	0.851	0.800	0.030	80	310	381	1.0	0.4	2528	2605	2538	2284	6666	360	19
18	Clear	0.856	0.756	0.030	80	310										
19	Clear	0.894	0.75	0.030	80	310										
20	Overcast	0.857	0.863	0.030	80	310	381	0.4	0.4	2660	2515	2483	2241	6740	380	
21	Clear	0.840	1.085	0.030	80	310	247	1.4	0.4	2529	2457	2509	2241	6868	380	
22	Overcast	0.839	0.877	0.030	80	310	244	2.2	0.6	2559	2522	2565	2295	6046	390	
23	Overcast	0.828	0.781	0.030	80	310	241	2.8	2.8	2418	2515	2706	2424	6972	400	
24	Overcast	0.822	0.710	0.030	80	280	257	2.8	1.6	2527	2551	2575	2300	6366	390	9
25	Overcast	0.833	0.777	0.030	80	280										
26	Overcast	0.874	0.775	0.030	80	280										
27	Overcast	0.853	0.845	0.030	80	280	288	1.6	0.2	2525	2514	2356	2105	6924	380	
28	Overcast	0.835	0.899	0.030	80	280	415	2.2	0.4	2625	2495	2583	2310	6378	390	
29	Overcast	0.843	0.822	0.030	80	280	300	0.8	0.4	2490	2375	2454	2186	6702	400	
30	Overcast	0.828	0.817	0.030	80	280	198	5.8	1.6	2458	2473	2713	2413	6334	420	
31	Overcast	0.83	0.601	0.030	80	420	280	2.4	1.6	2511	2560	2568	2289	7030	430	12
Minimum		0.822	0.601	0.026	80	270	174	0.4	0.2	2377	2294	2201	1988	5594	330	9
Maximum		0.894	1.085	0.030	80	420	971	6.6	3.0	2660	2605	2713	2424	7370	430	29
Average		0.851	0.841	0.029	80	291	346	2.3	1.0	2538	2495	2484	2228	6638	375	18

	% 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
1	90	1954	1976	65546	1497	14	142	43	0.035	7.5	6.9	6.9	6.9	6.9	6.9	6.9	300	140	140	140
2	90	3126	1919	64892	1386	6	144	47	0.033	7.8	7.2	7.0	7.1	7.0	7.0	7.1	360	140	140	140
3			1901							7.4		7.1								
4			1851							7.7		7.1								
5			1986							7.6		7.0								
6	90	2475	1995	65693	1506	12	144	43	0.034	7.8	7.2	7.2	7.1	7.0	6.9	7.1	340	140	140	140
7	90	2778	1943	64692	1273	26	150	50	0.037	7.9	7.1	7.2	7.1	7.1	7.0	7.0	360	140	140	140
8	90	2063	1921	69522	1580	36	143	43	0.032	7.7	7.0	7.3	7.1	7.0	7.0	7.2	340	140	140	140
9	90	2517	1914	69202	1537	23	147	44	0.033	7.6	7.2	7.1	7.1	7.0	7.0	7.0	320	140	140	140
10	90	2600	2044	68094	1400	45	149	47	0.036	7.9	7.3	7.2	7.0	7.0	7.0	7.1	360	140	140	140
11			2056							7.4		7.1								
12			2148							7.5		7.1								
13	91	2354	2087	68348	1756	10	161	39	0.036	7.7	7.2	7.2	7.1	7.1	7.0	7.1	340	140	140	140
14	90	6827	2039	65879	1844	6	146	36	0.035	7.8	7.2	7.3	7.1	7.1	6.9	7.1	360	140	140	140
15	89	1245	2075	68481	1679	21	145	40	0.034	7.5	7.3	7.1	7.1	7.1	7.0	7.0	320	140	140	120
16	90	3287	2063	67707	1586	19	151	42	0.034	7.7	7.2	7.2	7.1	7.1	7.0	7.1	340	140	140	140
17	90	2704	2200	68495	1668	7	142	41	0.036	7.5	7.1	7.2	7.1	7.1	7.0	7.2	240	140	140	140
18			2213							7.5		7.1								
19			2311							7.5		7.1								
20	90	2723	2216	69055	1686	3	153	41	0.037	7.9	7.2	7.2	7.0	7.0	7.0	7.0	360	140	140	140
21	89	1730	2172	66533	1718	13	151	38	0.036	7.6	7.1	7.1	7.1	7.1	7.0	7.1	280	140	140	140
22	89	1707	2169	67801	1513	16	152	44	0.035	7.7	6.9	7.2	7.1	7.0	6.9	7.1	300	140	140	140
23	90	1664	2141	65826	1744	18	148	37	0.033	7.7	7.2	7.1	7.1	7.1	6.9	7.1	320	140	140	140
24	89	1762	1920	67761	1593	17	151	42	0.031	7.8	7.1	7.1	7.0	7.0	7.0	7.0	280	140	140	140
25			1945							7.4		7.0								
26			2041							7.4		7.0								
27	89	2049	1992	67240	1732	11	161	39	0.035	7.6	7.2	7.1	7.0	7.0	6.9	7.2	320	140	140	140
28	89	2890	1950	68321	1596	16	151	42	0.032	7.8	7.3	7.3	7.0	7.0	7.0	7.1	340	140	140	140
29	89	2109	1969	64919	1677	5	163	39	0.034	7.5	7.1	7.0	7.0	7.0	6.9	7.0	300	160	160	160
30	89	1367	1934	65799	1585	40	155	41	0.030	7.6	7.1	7.1	7.0	7.0	7.0	7.1	280	160	140	140
31	89	1938	2907	68535	1759	12	167	39	0.048	7.5	7.1	7.0	7.1	7.1	6.9	7.1	280	140	140	140
Minimum	89	1245	1851	64692	1273	3	142	36	0.035	7.4	6.9	6.9	6.9	6.9	6.9	6.9	240	140	140	120
Maximum	91	6827	2907	69522	1844	45	167	50	0.045	7.9	7.3	7.3	7.1	7.1	7.0	7.2	360	160	160	160
Average	90	2449	2064	67197	1605	17	151	42	0.035	7.6	7.1	7.1	7.1	7.0	7.0	7.1	320	142	141	140

	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	TKN Inf. grab	TKN Eff. grab	SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket fee Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	54	0.04	0.00	0.00	0.00	1.1	2.2	2.2	2.1	0.5	1.7						0.8/0.8	2'/0.5'	1.5'/0.5'
2	70	0.18	0.38	0.00	0.00	1.0	2.0	2.1	1.8	0.3	1.8	0.0	6.2				0.8/0.8	3'/1.5'	3'/1'
3											1.6						0.8/0.8		
4											1.6						0.8/0.8		
5											1.4						0.8/0.8		
6	62	0.07	0.15	0.05	0.05	1.4	3.3	2.8	1.8	0.9	1.5						0.8/0.8	2'/0.5'	3'/1'
7	76	0.02	0.05	0.00	0.00	1.2	2.8	2.8	1.6	0.4	1.6						0.8/0.8	3'/1'	3'/2'
8	58	0.00	0.00	0.00	0.00	1.2	3.2	2.5	1.7	0.5	1.5						0.8/0.8	3'/1'	4'/2'
9	60	0.00	0.02	0.01	0.00	1.3	3.4	2.7	1.7	0.6	1.3						0.8/0.8	4'/2'	3'/1'
10	66	0.07	0.09	0.04	0.00	1.2	3.5	3.1	1.7	0.8	1.1	0.0	6.4				0.8/0.8	3'/1.5'	4'/2'
11											0.8						0.8/0.8		
12											0.7						0.8/0.8		
13	58	0.06	0.03	0.03	0.00	0.8	1.9	2.0	1.7	0.6	0.6						0.8/0.8	4'/2'	2.5'/1'
14	62	0.06	0.08	0.04	0.00	1.2	2.0	1.6	1.1	0.5	0.7						0.8/0.8	3'/1'	3'/1'
15	50	0.07	0.09	0.03	0.00	0.8	1.6	1.7	1.2	0.4	0.7						0.8/0.8	3'/1'	3'/1'
16	66	0.02	0.00	0.00	0.00	1.5	2.1	1.8	1.3	0.6	0.8						0.8/0.8	3'/1'	3'/1.5
17	48	0.02	0.05	0.03	0.02	0.9	2.2	2.0	1.5	0.9	0.5	2.2	6.2				0.8/0.8	3'/2'	3'/1'
18											0.4						0.8/0.8		
19											0.4						0.8/0.8		
20	72	0.03	0.02	0.02	0.00	1.0	1.3	1.5	1.1	0.4	0.5						0.8/0.8	3'/1.5'	3'/1'
21	38	0.00	0.02	0.02	0.00	1.2	1.4	2.7	1.7	0.4	0.5						0.8/0.8	3'/2'	3'/2'
22	54	0.00	0.01	0.02	0.00	1.2	2.2	2.3	1.2	0.4	0.7						0.8/0.8	3'/1.5'	3'/2'
23	60	0.00	0.00	0.04	0.00	1.2	2.3	1.9	1.5	0.8	0.4						0.8/0.8	4'/1.5	3'/1'
24	42	0.05	0.00	0.00	0.00	1.2	2.3	2.0	1.8	0.6	0.3	3.1	6.3				0.8/0.8	4'/2'	4'/2'
25											0.4						0.8/0.8		
26											0.4						0.8/0.8		
27	60	0.01	0.01	0.00	0.00	1.0	1.7	1.8	1.2	0.5	0.4						0.8/0.8	4'/2'	3'/1'
28	66	0.02	0.04	0.00	0.00	0.8	1.6	1.5	1.6	0.5	0.5						0.8/0.8	4'/1.5'	3'/1.5'
29	44	0.00	0.00	0.05	0.00	0.8	1.8	2.3	2.0	0.3	0.4						0.8/0.8	4'/2'	3'/1.5'
30	44	0.03	0.00	0.03	0.00	1.1	2.2	1.8	1.5	0.5	0.4						0.8/0.8	4'/1.5'	4'/2'
31	38	0.00	0.00	0.00	0.00	1.1	2.5	2.4	1.9	0.4	0.7	0.0	9.7				0.8/0.8	4'/2'	4'/2'
Minimum	38	0.00	0.00	0.00	0.00	0.8	1.3	1.5	1.1	0.3	0.3	0.0	6.2	0.0	0.0	0.0	0.8/0.8		
Maximum	76	0.18	0.38	0.05	0.05	1.5	3.5	3.1	2.1	0.9	1.8	3.1	9.7	0.0	0.0	0.0			
Average	57	0.03	0.05	0.02	0.00	1.1	2.3	2.2	1.6	0.5	0.8	1.1	7.0	#DIV/0!	#DIV/0!	#DIV/0!			

Month August | Year 2020 | 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
1	overcast	0.824	0.519	0.030	80	420												0
2	overcast	0.868	0.518	0.030	80	420												0
3	overcast	0.846	0.748	0.030	80	420	412	2.4	0.4	2569	2569	2432	2173	5842	390		89	2907
4	overcast	0.838	0.845	0.030	80	420	340	0.4	0.4	2582	2557	2470	2201	5900	400		89	2376
5	overcast	0.845	0.856	0.030	80	420	165	1.8	1.6	2572	2580	2651	2352	6702	430		89	1163
6	overcast	0.824	0.855	0.030	80	420	335	1.8	1.6	2519	2519	2550	2269	6612	390		89	2302
7	overcast	0.827	0.683	0.030	80	390	150	2.2	2.4	2567	2548	2385	2109	6906	390	4	88	1035
8	clear	0.836	0.549	0.030	80	390												
9	clear	0.869	0.547	0.030	80	390												
10	foggy	0.845	0.195	0.030	80	390	343	1.2	0.6	2519	2470	2566	2276	6932	400		89	2417
11	foggy	0.810	0.000	0.030	80	390	250	2.4		2430	2501	2391	2112	6792	400		88	1689
12	overcast	0.827	0.257	0.030	80	390	350	2.4	0.8	2370	2426	2502	2215	6678	400		89	2414
13	clear	0.825	0.585	0.030	80	390	498	3.8	3.2	2426	2429	2384	2108	6870	400		88	3426
14	clear	0.821	0.607	0.030	80	330	233	1.0	0.6	2534	2478	2428	2140	6446	390	17	88	1595
15	clear	0.841	0.591	0.030	80	330												
16	overcast	0.908	0.591	0.030	80	330												
17	overcast	0.840	0.842	0.030	80	330	620	1.2	0.4	2513	2459	2415	2128	7028	390		88	4343
18	overcast	0.823	0.788	0.030	80	330	183	1.8	0.2	2515	2418	2434	2138	6162	400		88	1256
19	overcast	0.832	0.789	0.025	80	330	369	1.4	0.4	2557	2427	2390	2102	6190	380		88	2560
20	clear	0.834	0.845	0.026	80	330	441	1.4	0.2	2504	2405	2396	2110	6842	380		88	3067
21	clear	0.840	0.655	0.026	80	330	281	2.8	0.8	2605	2456	2372	2096	5742	370	20	88	1969
22	foggy	0.819	0.638	0.026	80	330												
23	overcast	0.882	0.648	0.026	80	330												
24	overcast	0.842	0.960	0.026	80	330	472	2.8	0.4	2532	2546	2484	2192	7456	390		88	3315
25	overcast	0.821	0.924	0.026	80	330	196	2.6	0.6	2531	2370	2523	2203	6794	400		87	1342
26	overcast	0.845	0.887	0.026	80	330	394	2.0	1.2	2575	2579	2536	2230	6966	400		88	2777
27	overcast	0.821	0.914	0.026	80	330	213	1.8	0.4	2543	2521	2447	2182	6300	380		89	1458
28	overcast	0.816	0.665	0.026	80	370	320	1.2	0.4	2559	2543	2437	2125	5640	390	19	87	2178
29	overcast	0.834	0.612	0.026	80	370												
30	clear	0.895	0.606	0.026	80	370												
31	clear	0.843	0.899	0.026	80	370	329	0.8	0.4	2652	2618	2589	2255	6514	400		87	2313
Minimum		0.810	0.000	0.025	80	330	150	0.4	0.2	2370	2370	2372	2096	5640	370	4	87	0
Maximum		0.908	0.960	0.030	80	420	620	3.8	3.2	2652	2618	2651	2352	7456	430	20	89	4343
Average		0.840	0.665	0.028	80	366	328	1.9	0.9	2532	2496	2466	2177	6539	394	15	88	2083

	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	2886	0	0	0				7.5		7.0				
2	3040	0	0	0				7.6		7.0				
3	2963	68561	1462	15	160	46	0.051	7.8	7.2	7.2	7.1	7.0	7.0	7.1
4	2935	68575	1476	3	162	46	0.050	7.6	7.2	7.1	7.1	7.1	6.9	7.2
5	2960	68748	1677	13	162	41	0.047	7.6	7.2	7.1	7.0	7.0	6.9	7.0
6	2886	67227	1654	13	153	40	0.048	7.6	7.2	7.0	7.0	7.0	6.9	6.9
7	2690	68255	1728	13	164	39	0.048	7.7	7.2	7.1	7.1	7.0	7.0	7.2
8	2719							7.3		7.1				
9	2827							7.4		7.1				
10	2748	66573	1734	2	156	38	0.045	7.8	7.1	7.1	7.1	7.1	7.0	7.1
11	2635	65799	1699		167	39	0.047	7.7	7.1		7.1	7.1	6.9	7.2
12	2690	63998	1671	5	160	38	0.046	7.8	7.2	6.9	7.1	7.1	7.0	7.1
13	2683	64785	1719	19	168	37	0.048	7.7	7.2	7.1	7.1	7.1	7.0	7.0
14	2260	66880	1613	5	161	41	0.040	7.9	7.2	7.2	7.2	7.2	7.0	7.2
15	2315							7.4		7.0				
16	2499							7.4		7.0				
17	2312	66346	1758	8	161	38	0.041	7.7	7.1	7.0	7.1	7.1	6.9	7.1
18	2265	65826	1542	12	164	42	0.040	7.7	7.1	7.0	7.0	7.0	6.9	7.0
19	2290	66506	1291	9	159	51	0.041	7.9	7.2	7.1	7.1	7.1	7.0	7.1
20	2295	65506	1484	10	159	44	0.041	7.8	7.2	7.1	7.1	7.1	7.0	7.1
21	2312	67534	1245	15	156	54	0.041	7.5	7.2	6.9	7.1	7.1	6.9	7.1
22	2254							7.4		6.9				
23	2427							7.5		7.0				
24	2317	67761	1617	22	157	41	0.040	8.0	7.2	7.2	7.2	7.2	7.0	7.2
25	2260	65399	1473	20	159	44	0.038	7.6	7.2	7.0	7.2	7.2	7.0	7.2
26	2326	68775	1511	15	158	45	0.039	7.7	7.2	7.0	7.1	7.1	7.0	7.1
27	2260	67574	1366	14	155	49	0.039	7.8	7.1	6.9	7.0	7.0	7.0	7.0
28	2518	68081	1223	7	160	55	0.044	7.9	7.2	7.1	7.1	7.1	7.0	7.0
29	2574							7.7		7.1				
30	2762							7.6		7.1				
31	2601	69095	1412	6	154	49	0.043	8.0	7.2	7.2	7.1	7.1	7.0	7.2
Minimum	2254	0	0	0	153	37	0.040	7.3	7.1	6.9	7.0	7.0	6.9	6.9
Maximum	3040	69095	1758	22	168	55	0.048	8.0	7.2	7.2	7.2	7.2	7.0	7.2
Average	2565	61209	1407	10	160	44	0.044	7.7	7.2	7.1	7.1	7.1	7.0	7.1

	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1															0.5						0.8/0.8		
2															0.5						0.8/0.8		
3	400	140	160	160	64	0.01	0.03	0.04	0.00	1.1	1.8	1.9	0.8	0.4	0.5						0.8/0.8	4'/1.5'	4'/2'
4	340	140	160	140	64	0.00	0.02	0.03	0.00	1.0	2.0	1.9	1.1	0.4	0.5						0.8/0.8	3'/1.5'	3'/1.5'
5	320	160	140	140	50	0.03	0.00	0.02	0.00	1.0	2.1	2.1	1.3	0.5	0.5						0.8/0.8	3'/1.5'	3'/1'
6	340	140	160	160	64	0.04	0.04	0.05	0.00	0.8	2.2	2.0	1.1	0.4	0.5						0.8/0.8	4'/2'	3'/1.5'
7	280	140	160	140	36	0.05	0.12	0.01	0.00	0.9	1.9	2.1	1.5	0.4	0.6	0.0	8.5				0.8/0.8	3'/1'	3'/1.5'
8															0.5						0.8/0.8		
9															0.5						0.8/0.8		
10	360	140	140	140	62	0.03	0.04	0.00	0.00	1.0	1.3	1.8	0.6	0.5	0.5						0.8/0.8	4'/2'	4'/1.5'
11	340	140	140	140	62	0.04	0.04	0.01		0.9	1.7	2.0		0.4							0.8/0.8	4'/1'	3'/1'
12	360	140	160	140	66	0.09	0.14	0.00	0.00	1.1	2.4	1.9	2.5	0.5	0.8						0.8/0.8	4'/2'	3'/1.5'
13	340	140	140	140	58	0.02	0.01	0.00	0.00	1.0	2.2	2.1	1.1	0.5	0.5						0.8/0.8	4'/2'	3'/1.5'
14	300	160	160	160	38	0.23	0.43	0.00	0.00	0.8	1.6	2.0	1.2	0.6	0.7	0.0	6.9				0.8/0.8	5'/2'	5'/2'
15															0.4						0.8/0.8		
16															0.4						0.8/0.8		
17	360	140	160	160	70	0.10	0.08	0.07	0.02	0.7	0.9	1.1	0.7	0.5	0.5						0.8/0.8	4'/1.5'	4'/1.5'
18	340	140	160	160	52	0.05	0.03	0.01	0.00	1.1	1.3	1.4	0.8	0.4	0.5						0.8/0.8	5'/4'	4'/2'
19	360	140	160	160	66	0.02	0.00	0.00	0.00	1.2	1.6	1.3	0.7	0.6	0.7						0.8/0.8	5'/2'	4'/2'
20	340	140	160	160	60	0.00	0.03	0.00	0.00	0.7	1.6	1.5	1.0	0.5	0.6						0.8/0.8	5'/2'	3'/2'
21	300	140	140	140	40	0.07	0.10	0.02	0.01	1.1	1.0	1.7	1.4	0.5	0.6	0.0	6.1				0.8/0.8	4'/2'	4'/2'
22															0.5						0.8/0.8		
23															0.5						0.8/0.8		
24	320	140	140	140	72	0.03	0.02	0.03	0.00	0.9	0.7	1.1	0.7	0.4	0.6						0.8/0.8	4'/2'	4'/2'
25	320	180	160	160	44	0.00	0.00	0.00	0.00	0.8	0.9	1.2	1.5	0.5	0.8						0.8/0.8	4'/1.5'	4'/1.5'
26	340	160	140	160	60	0.02	0.00	0.01	0.00	1.0	1.1	1.2	0.9	0.5	0.7						0.8/0.8	4'/2'	4'/1.5'
27	360	160	180	180	54	0.00	0.00	0.00	0.00	1.1	0.7	1.1	0.8	0.4	0.8						0.8/0.8	3.5'/1.5'	3'/.5'
28	300	160	160	160	46	0.04	0.06	0.04	0.00	1.3	1.4	1.0	0.9	0.4	0.7	0.0	5.3				0.8/0.8	5'/2'	4'/1.5'
29															0.5						0.8/0.8		
30															0.6						0.8/0.8		
31	420	160	160	160	70	0.04	0.04	0.03	0.01	0.9	0.7	0.7	0.7	0.6	0.4						0.8/0.8	4'/2'	4'/1.5'
Minimum	280	140	140	140	36	0.00	0.00	0.00	0.00	0.7	0.7	0.7	0.6	0.4	0.4	0.0	5.3	0.0	0.0	0.0			
Maximum	420	180	180	180	72	0.23	0.43	0.07	0.02	1.3	2.4	2.1	2.5	0.6	0.8	0.0	8.5	0.0	0.0	0.0			
Average	340	148	154	152	57	0.04	0.06	0.02	0.00	1.0	1.5	1.6	1.1	0.5	0.6	0.0	6.7	#DIV/0!	#DIV/0!	#DIV/0!			

Month	September	Year	2020	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	overcast	0.837	0.840	0.026	80	370	420	3.2	0.4	2652	2660	2656	2318	7326	420		87	2932	2583	70883	1589	22	158	44	0.042	8.0	7.2	7.2	7.1	7.1	7.0	7.0	360	160	160	160	70	0.04	0.07	0.02	0.00	1.0	0.8	0.8	0.7	0.6	0.4							0.8/0.8	3'/1.5'	3'/1.5'
2	overcast	0.843	0.835	0.026	80	370	380	1.6	0.4	2630	2702	2568	2228	6686	410		87	2672	2601	71150	1450	11	160	49	0.044	7.9	7.3	7.1	7.1	7.1	7.0	7.1	360	160	160	160	68	0.07	0.04	0.04	0.00	0.9	1.1	1.2	1.2	0.6	0.5							0.8/0.8	4'/2'	3'/1.5'
3	foggy	0.857	0.829	0.026	80	370	348	1.2	0.2	2669	2717	2659	2308	6574	420		87	2487	2645	71871	1426	8	158	50	0.043	7.9	7.3	7.1	7.1	7.1	7.0	7.2	360	160	160	160	70	0.03	0.01	0.03	0.00	1.1	1.0	1.4	0.8	0.5	0.5							0.8/0.8	4'/2'	4'/1.5'
4	overcast	0.851	0.668	0.026	80	360	315	1.4	1.6	2747	2727	2638	2289	7516	420	21	87	2236	2555	73045	1630	8	159	45	0.042	7.7	7.3	7.0	7.1	7.1	7.0	7.1	320	160	140	140	42	0.06	0.04	0.03	0.00	1.2	1.2	1.7	1.0	0.4	0.6	0.0	4.9					0.8/0.8	5'/2'	4'/1.5'
5	clear	0.865	0.340	0.026	80	360													2597							7.6		7.1																		0.6						0.8/0.8		
6	clear	0.860	0.342	0.026	80	360													2582							7.4		7.1																		0.5						0.8/0.8		
7	clear	0.934	0.341	0.026	80	360													2804							7.6		7.2																		0.5						0.8/0.8		
8	overcast	0.956	0.747	0.026	80	360	395	1.4	0.4	2778	2823	2766	2413	4826	440		87	3149	2870	74740	1046	9	159	71	0.045	7.9	7.2	7.2	7.1	7.1	7.1	7.1	340	140	160	160	72	0.03	0.04	0.01	0.00	1.0	0.7	1.1	0.5	0.5	0.4							0.8/0.8	4'/1.5'	5'/2'
9	overcast	0.935	0.845	0.026	80	360	374	2.0	2.0	2802	2721	2697	2334	4724	440		87	2916	2807	73699	1024	14	163	71	0.045	7.9	7.2	7.3	7.1	7.1	7.1	7.0	360	140	160	160	68	0.10	0.15	0.09	0.06	1.0	1.3	1.0	0.7	0.7	0.5							0.8/0.8	5'/2'	4'/2'
10	overcast	0.829	0.829	0.026	80	360	383	2.0	0.4	2753	2852	2676	2314	6654	430		86	2648	2489	74793	1443	14	161	51	0.040	8.0	7.3	7.2	7.1	7.1	7.0	7.1	380	160	160	160	64	0.04	0.03	0.02	0.00	1.1	1.6	1.3	0.9	0.6	0.5							0.8/0.8	4'/2'	4'/1.5'
11	overcast	0.832	0.571	0.026	80	360	324	2.2	0.2	2568	2507	2570	2207	6400	420	30	86	2248	2498	67721	1388	10	163	48	0.042	7.8	7.1	7.1	7.0	7.0	7.0	7.0	280	180	160	160	54	0.03	0.07	0.04	0.00	1.3	1.7	2.3	1.2	0.7	0.5	3.0	7.3					0.8/0.8	4'/1.5'	4.5'/1.5'
12	foggy	0.865	0.529	0.026	80	360													2597							7.6		7.1																		0.5						0.8/0.8		
13	foggy	0.893	0.528	0.026	80	360													2681							7.6		7.2																		0.5						0.8/0.8		
14	overcast	0.836	0.946	0.026	80	360	331	2.8	0.8	2827	2753	2713	2344	6968	460		86	2308	2510	74460	1511	22	170	49	0.040	7.8	7.2	7.2	7.1	7.1	7.0	7.1	360	140	160	160	68	0.05	0.02	0.03	0.00	1.1	1.3	1.7	0.7	0.5	0.4							0.8/0.8	5'/2'	5'/2'
15	clear	0.835	0.988	0.026	80	360	405	1.2	0.8	2803	2783	2676	2307	7390	440		86	2820	2507	74540	1602	10	164	46	0.041	7.9	7.2	7.2	7.1	7.1	7.0	7.0	380	160	160	160	66	0.01	0.01	0.00	0.00	0.9	1.4	1.4	0.9	0.4	0.4							0.8/0.8	4'/2'	5'/2'
16	clear	0.833	0.940	0.026	80	360	402	1.4	0.2	2794	2840	2680	2314	5718	440		86	2793	2501	75180	1240	11	164	60	0.040	7.7	7.1	7.0	7.1	7.0	7.0	7.1	440	180	180	160	64	0.00	0.01	0.00	0.00	0.5	0.6	1.2	1.6	0.5	0.4							0.8/0.8	3.5'/2'	4'/2'
17	overcast	0.828	0.923	0.026	80	360	371	3.0	0.4	2873	2870	2781	2396	7290	440		86	2562	2486	76635	1581	23	158	48	0.039	7.7	7.2	7.0	7.1	7.1	7.0	7.1	380	180	160	160	64	0.00	0.00	0.00	0.00	1.3	1.0	0.8	0.8	0.4	0.4							0.8/0.8	4'/2'	4'/1.5'
18	Showers	0.814	0.763	0.026	80	360	187	1.2	1.2	2863	2765	2843	2449	7400	410	12	86	1269	2444	75100	1605	8	144	47	0.037	7.7	7.1	6.7	7.1	7.1	7.1	7.1	340	180	180	180	52	0.00	0.00	0.00	0.00	0.9	0.8	1.2	0.5	0.7	1.6	3.5	4.5					0.8/0.8	3'/2'	3.5'/1.5'
19	overcast	0.841	0.715	0.026	80	360													2525							7.4		7.0																		0.6						0.8/0.8		
20	overcast	0.881	0.715	0.026	80	360													2645							7.4		7.0																		0.6						0.8/0.8		
21	overcast	0.846	0.974	0.026	80	360	441	0.8	0.4	2889	2902	2777	2375	8318	440		86	3112	2540	77275	1804	6	158	43	0.040	7.8	7.2	7.1	7.1	7.1	7.0	7.1	400	160	180	180	72	0.03	0.04	0.04	0.00	0.8	0.8	1.3	0.9	0.4	0.7							0.8/0.8	3'/2'	4'/1.5'
22	overcast	0.823	0.889	0.026	80	360	400	1.0	1.4	2855	2916	2752	2363	7608	420		86	2746	2471	77008	1650	7	153	46	0.039	7.9	7.2	6.9	7.1	7.1	7.0	7.1	400	160	180	180	64	0.00	0.00	0.00	0.00	1.1	0.8	0.8	0.7	0.4	0.9							0.8/0.8	4'/1.5'	4'/1.5'
23	clear	0.820	0.755	0.026	80	360	431	0.8	1.0	2820	2871	2795	2401	7492	430		86	2948	2462	75941	1625	5	154	47	0.038	7.8	7.1	7.0	7.1	7.1	7.0	7.1	420	160	180	160	64	0.00	0.00	0.00	0.00	1.2	1.0	1.3	1.2	1.0	1.0							0.8/0.8	3.5'/2'	4'/2'
24	clear	0.834	0.829	0.026	80	360	491	0.8	0.2	2852	2903	2817	2411	6678	410		86	3415	2504	76795	1448	6	146	53	0.039	7.8	7.1	6.9	7.1	7.1	7.0	7.1	400	160	160	160	62	0.00	0.00	0.00	0.00	0.6	1.2	1.1	1.4	0.4	2.4							0.8/0.8	4'/1.5'	4'/2'
25	clear	0.818	0.790	0.026	80	390	320	0.2	0.0	2708	2801	2871	2455	6002	400	22	86	2183	2661	73512	1301	1	139	56	0.041	7.7	7.2	7.1	7.1	7.1	7.0	7.1	420	160	160	160	70	0.01	0.00	0.02	0.00	0.6	1.2	1.0	1.1	0.8	1.0							0.8/0.8	4'/1.5'	4'/2'
26	cloudy	0.849	0.765	0.026	80	390													2761							7.4		7.0																		0.9						0.8/0.8		
27	clear	0.884	0.761	0.026	80	390													2875							7.6		7.1																		0.8						0.8/0.8		
28	cloudy	0.849	1.060	0.026	80	390	386	1.0	0.4	2769	2785	2751	2366	7488	440		86	2733	2761	74113	1624	9	160	45	0.044	8.0	7.3	7.1	7.2	7.1	7.0	7.1	420	180	180	180	64	0.09	0.09	0.00	0.01	1.0	0.9	1.7	1.0	0.5	0.9	0.0	4.9					0.8/0.8	5'/2.5'	5'/2'
29	overcast	0.851	0.831	0.026	80	390	268	1.6	0.2	2816	2956	2825	2525	7772	450		89	1902	2768	77022	1685	11	159	45	0.041	7.0	7.3	7.0	7.2	7.1	7.0	7.2	360	180	180	180	56	0.01	0.00	0.00	0.00	0.6	0.7	0.9	0.5	0.3	0.7							0.8/0.8	4'/2'	4'/2'
30	overcast	0.865	0.825	0.026	80	390	451	2.4	0.4	2891	2964	2810	2411	6294	460		86	3254	2813	78129	1365	17	164	57	0.044	7.9	7.2	7.2	7.1	7.1	7.0	7.1	400	160	160	160	62	0.05	0.07	0.02	0.00	1.6	1.3	0.8	0.5	0.4	0.7							0.8/0.8	4'/1.5'	5'/2'
Minimum		0.814	0.340	0.026	80	360	187	0.2	0.0	2568	2507	2568	2207	4724	400	12	86	1269	2444	67721	1024	1	139	43	0.041	7.0	7.1	6.7	7.0	7.0	7.0	7.0	280	140	140	140	42	0.00	0.00	0.00	0.00	0.5	0.6	0.8	0.5	0.3	0.4	0.0	4.5	0.0	0.0	0.0				
Maximum		0.956	1.060	0.026	80	390	491	3.2	2.0	2891	2964	2871	2525	8318	460	30	89	3415	2875	78129	1804	23	170	71	0.043	8.0	7.3	7.3	7.2	7.1	7.1	7.2	440	180	180	180	72	0.10	0.15	0.09	0.06	1.6	1.7	2.3	1.6	1.0	2.4	3.5	7.3	0.0	0.0	0.0				
Average		0.855	0.757	0.026	80	367	373	1.6	0.6	2779	2801	2730	2358	6815	430	21	86	2635	2618	74458	1478	11	158	51	0.042	7.7	7.2	7.1	7.1	7.1	7.0	7.1	375	163	166	164	64	0.03	0.03	0.02	0.00	1.0	1.1	1.2	0.9	0.5	0.7	1.6	5.4	#DIV/0!	#DIV/0!	#DIV/0!				

Month	October	Year	2020	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier blanket feet Total/Solid	#2 Clarifier blanket feet Total/Solid
1	Foggy	0.858	0.890	0.026	80	390	379	1.2	0.8	2874	2980	2755	2350	7296	470		85	2712	2791	78116	1582	9	171	49	0.044	8.0	7.3	7.3	7.1	7.1	7.0	7.0	380	160	160	160	68	0.01	0.02	0.01	0.00	1.2	0.8	1.2	0.8	0.4	0.8							0.8/0.8	4'/2'	4'/1.5
2	overcast	0.857	0.716	0.026	80	340	335	1.4	0.2	2880	2845	2933	2506	5628	470	25	85	2394	2430	76394	1220	8	160	62	0.036	7.8	7.0	6.9	7.0	7.0	7.0	7.0	340	160	160	160	46	0.00	0.00	0.00	0.00	0.8	0.9	0.8	1.6	1.0	0.8	2.3	4.1					0.8/0.8	4'/2'	4'/2'
3	overcast	0.869	0.688	0.026	80	340													2464							7.7		7.2																		0.7					0.8/0.8		
4	overcast	0.917	0.686	0.026	80	340													2600							7.7		7.2																		0.6					0.8/0.8		
5	overcast	0.879	0.903	0.026	80	340	431	0.6	1.0	2966	2876	2773	2362	7698	460		85	3160	2492	77956	1669	5	166	47	0.040	7.5	7.3	7.3	7.1	7.1	7.0	7.1	340	160	160	160	62	0.02	0.04	0.00	0.00	1.0	0.9	1.0	0.8	0.4	0.6							0.8/0.8	4'/2.5'	4'/2'
6	Foggy	0.867	0.842	0.026	80	340	279	2.0	0.8	2874	2818	2858	2430	7772	490		85	2017	2458	75954	1685	14	171	45	0.038	7.9	7.3	7.3	7.2	7.1	7.0	7.0	360	160	160	160	60	0.00	0.00	0.02	0.00	1.0	0.9	1.2	0.8	0.3	0.5							0.8/0.8	4'/2.5'	4'/2'
7	Foggy	0.849	0.828	0.026	80	340	265	1.4	0.2	2891	2848	2778	2377	7632	470		86	1876	2407	76581	1655	10	169	46	0.038	7.8	1.4	7.2	7.1	7.1	7.0	7.1	320	160	160	160	58	0.01	0.00	0.03	0.00	0.9	1.1	1.2	0.9	0.4	0.5							0.8/0.8	4.5'/2.5'	4'/2.5'
8	overcast	0.852	0.897	0.026	80	340	297	2.4	0.2	2874	2861	2913	2483	7034	520		85	2110	2416	76528	1525	18	179	50	0.036	7.9	7.3	7.2	7.1	7.1	7.0	7.0	400	140	160	160	64	0.00	0.00	0.00	0.00	1.1	1.6	1.3	0.8	0.3	0.5							0.8/0.8	5'/3'	5'/2.5'
9	overcast	0.851	0.809	0.029	80	260	277	2.2	1.0	2829	2866	3315	2814	6434	680	22	85	1966	1845	75994	1556	15	205	48	0.025	7.9	7.3	7.0	7.1	7.1	7.0	7.1	320	140	160	160	40	0.06	0.04	0.01	0.00	0.8	1.5	1.6	1.2	0.3	0.6	0.0	8.0					0.8/0.8	5'/2.5'	5'/3'
10	Rain	0.896	0.817	0.032	80	260													1943							7.6		7.2																		0.7					0.8/0.8		
11	overcast	0.920	0.815	0.032	80	260													1995							7.5		7.0																		0.8					0.8/0.8		
12	clear	0.893	0.813	0.032	80	260													1936							7.8		7.2																		0.7					0.8/0.8		
13	clear	0.869	0.961	0.032	80	260	403	3.4	0.4	2821	2850	3058	2627	7706	550		86	2921	1884	75674	2057	27	180	36	0.027	7.9	7.3	7.2	7.1	7.2	7.0	7.0	400	160	160	160	56	0.02	0.00	0.00	0.00	1.1	1.7	1.8	0.9	0.4	0.7							0.8/0.8	4'/2.5'	5'/3'
14	clear	0.870	0.807	0.032	80	260	399	3.8	0.4	2774	2780	3200	2724	7468	600		85	2895	1887	74113	1993	26	188	37	0.026	8.0	7.3	7.2	7.1	7.1	7.0	7.1	400	160	160	160	70	0.02	0.00	0.00	0.00	1.1	1.6	1.8	1.0	0.4	0.8							0.8/0.8	5'/2.5'	4'/2'
15	clear	0.851	0.801	0.032	80	260	269	2.4	1.4	2808	2760	2750	2343	7764	460		85	1909	1845	74299	2072	16	167	36	0.030	7.9	7.3	7.1	7.1	7.1	7.0	7.1	340	140	160	160	68	0.01	0.01	0.00	0.00	1.2	2.6	1.8	1.1	0.5	0.9							0.8/0.8	6'/3'	5'/3'
16	clear	0.846	0.691	0.033	80	470	301	2.0	1.2	2712	2789	2772	2363	8046	480	21	85	2124	3316	73405	2214	12	173	33	0.053	7.8	7.3	7.2	7.1	7.1	7.0	7.2	320	140	160	160	42	0.05	0.05	0.00	0.00	1.0	2.9	2.4	1.6	0.3	0.8	2.2	6.0					0.8/0.8	5'/2.5'	5'/2'
17	clear	0.877	0.760	0.034	80	470													3438							7.8		7.1																		0.5					0.8/0.8		
18	clear	0.905	0.758	0.034	80	470													3547							7.8		7.0																		0.4					0.8/0.8		
19	overcast	0.880	0.855	0.034	80	470	238	2.2	0.4	2716	2719	2732	2334	7640	470		85	1747	3449	72525	2166	16	172	33	0.055	7.9	7.2	7.0	7.1	7.0	7.0	7.1	360	140	160	140	58	0.04	0.06	0.03	0.01	3.8	8.0	7.9	3.5	0.4	0.4							0.8/0.8	4'/2.5'	4'/3'
20	Foggy	0.854	0.805	0.034	80	470	356	2.4	0.4	2695	2647	2769	2372	6868	480		86	2536	3348	71284	1947	16	173	36	0.053	8.0	7.2	7.2	7.1	7.1	7.0	7.2	380	140	160	160	60	0.02	0.02	0.02	0.00	1.5	6.0	4.8	1.9	0.4	0.3							0.8/0.8	5'/2'	5'/2.5'
21	overcast	0.859	0.822	0.034	80	470	387	2.4	0.2	2705	2764	2580	2219	5626	440		86	2772	3367	72978	1595	16	171	45	0.057	8.0	7.3	7.2	7.1	7.1	7.1	7.2	440	160	160	160	72	0.04	0.03	0.02	0.00	1.6	4.6	3.1	2.0	0.3	0.4							0.8/0.8	4'/2'	3'/2'
22	clear	0.853	0.844	0.034	80	470	246	2.0	0.2	2682	2588	2642	2263	6228	450		86	1750	3344	70323	1766	14	170	40	0.055	7.9	7.3	7.3	7.1	7.1	7.1	7.1	320	140	160	140	60	0.00	0.00	0.01	0.00	1.0	3.9	2.8	1.6	0.2	0.2							0.8/0.8	5'/2'	4'/2'
23	clear	0.849	0.700	0.034	80	380	317	0.4	0.2	2717	2615	2602	2225	6784	450	22	86	2245	2691	71150	1924	2	173	37	0.045	7.9	7.3	7.3	7.2	7.1	7.1	7.1	320	160	160	160	48	0.02	0.03	0.02	0.00	1.3	4.9	3.6	2.1	0.2	0.2	0.0	5.4					0.8/0.8	4'/2.5'	4'/2'
24	overcast	0.866	0.667	0.034	80	380													2745							7.7		7.1																		0.2					0.8/0.8		
25	overcast	0.914	0.668	0.034	80	380													2897							7.9		7.1																		0.3					0.8/0.8		
26	clear	0.872	0.832	0.034	80	380	299	0.4	0.2	2765	2549	2539	2177	6704	470		86	2174	2764	70910	1901	3	185	37	0.048	8.0	7.3	7.3	7.1	7.1	7.0	7.1	360	140	160	140	64	0.00	0.03	0.03	0.00	0.8	3.3	2.6	1.6	0.2	0.2							0.8/0.8	5'/2.5'	5'/3'
27	clear	0.851	0.775	0.034	80	380	323	0.4	0.2	2728	2592	2618	2248	5884	470		86	2292	2697	70990	1668	3	180	42	0.045	7.9	7.2	7.3	7.1	7.1	7.0	7.1	340	140	160	160	64	0.04	0.03	0.00	0.04	0.8	3.6	2.6	1.3	0.2	0.2							0.8/0.8	5'/3'	5'/2.5'
28	clear	0.855	0.786	0.034	80	380	378	0.4	0.2	2652	2538	2594	2229	6554	480		86	2695	2710	69255	1858	3	185	37	0.046	8.0	7.2	7.2	7.1	7.1	7.0	7.1	380	160	160	160	60	0.00	0.00	0.02	0.02	1.0	3.8	2.8	1.4	0.2	0.2							0.8/0.8	4'/2'	3.5'/2'
29	clear	0.842	0.848	0.034	80	380	440	1.4	0.2	2680	2552	2491	2145	6770	470		86	3090	2668	69816	1920	10	189	36	0.047	8.0	7.2	7.2	7.1	7.1	7.0	7.2	380	160	160	140	74	0.01	0.00	0.00	0.01	1.1	4.2	3.0	1.6	0.2	0.2							0.8/0.8	5'/3'	4'/2.5'
30	clear	0.847	0.686	0.034	80	340	307	0.8	0.8	2633	2649	2667	2296	5760	490	21	86	2169	2402	70483	1633	5	184	43	0.039	7.8	7.2	7.2	7.1	7.1	7.0	7.1	320	160	160	160	46	0.05	0.06	0.04	0.00	1.4	4.7	3.4	2.3	0.2	0.4	0.0	5.9					0.8/0.8	5'/2.5'	4'/2'
31	clear	0.869	0.613	0.034	80	340													2464							7.7		7.2																		0.3					0.8/0.8		
Minimum		0.842	0.613	0.026	80	260	238	0.4	0.2	2633	2538	2491	2145	5626	440	21	85	1747	1845	69255	1220	2	160	33	0.032	7.5	1.4	6.9	7.0	7.0	7.0	7.0	320	140	160	140	40	0.00	0.00	0.00	0.00	0.8	0.8	0.8	0.8	0.2	0.2	0.0	4.1	0.0	0.0	0.0				
Maximum		0.920	0.961	0.034	80	470	440	3.8	1.4	2966	2980	3315	2814	8046	680	25	86	3160	3547	78116	2214	27	205	62	0.047	8.0	7.3	7.3	7.2	7.2	7.1	7.2	440	160	160	160	74	0.06	0.06	0.04	0.04	3.8	8.0	7.9	3.5	1.0	0.9	2.3	8.0	0.0	0.0	0.0				
Average		0.869	0.787	0.031	80	362	330	1.7	0.5	2775	2737	2778	2376	6919	491	22	86	2360	2621	73558	1791	12	177	42	0.041	7.8	7.0	7.2	7.1	7.1	7.0	7.1	358	151	160	156	59	0.02	0.02	0.01	0.00	1.2	3.0	2.5	1.5	0.3	0.5	0.9	5.9	#DIV/0!	#DIV/0!	#DIV/0!				

Month	November	Year	2020	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	clear	0.923	0.625	0.035	80	340													2617								7.5		7.2																								0.8/0.8		
2	Foggy	0.878	0.216	0.034	80	340	467	6.4	0.4	2614	2639	2651	2289	6102	450		86	3420	2490	70096	1730	12	170	40	0.041	7.6	7.3	7.2	7.1	7.1	7.1	7.0	420	160	160	160	76	0.19	0.09	0.03	0.03	1.4	4.4	3.3	1.9	1.2	0.3							0.8/0.8	5'/3'	5'/2.5'
3	overcast	0.849		0.034	80	340	403	1.0		2672	2561	2590	2229	7002	460		86	2854	2407	69829	1985	0	178	35	0.040	8.0	7.2		7.1	7.1	7.0	7.0	400	160	160	140	68	0.03	0.00	0.00		1.5	4.5	3.3		0.4							0.8/0.8	4'/2'	5'/2'
4	overcast	0.862	0.627	0.034	80	340	333	1.2	0.4	2725	2607	2547	2202	5902	420		86	2394	2444	71150	1674	6	165	42	0.042	8.0	7.1	7.0	7.0	7.0	7.0	7.0	380	160	160	140	64	0.01	0.05	0.00	0.00	1.7	4.3	3.4	2.4	0.4	0.6							0.8/0.8	4'/2'	5'/2'
5	Foggy	0.862	0.949	0.034	80	340	311	2.0	0.2	2615	2541	2540	2199	7706	400		87	2236	2444	68802	2185	16	157	31	0.042	7.9	7.2	7.0	7.1	7.0	7.0	7.1	380	140	160	160	78	0.00	0.00	0.00	0.00	1.8	4.5	3.4	1.7	0.3	0.3							0.8/0.8	5'/2.5'	4'/2.5'
6	overcast	0.881	0.738	0.034	80	330	294	1.4	0.2	2674	2608	2605	2276	7172	400	19	87	2160	2425	70483	2034	9	154	35	0.040	8.0	7.2	7.0	7.1	7.1	7.0	7.2	320	160	160	160	40	0.04	0.03	0.00	0.00	1.3	4.6	4.3	2.3	0.3	0.5	0.0	6.3					0.8/0.8	5'/2.5	4'/2'
7	clear	0.884	0.624	0.034	80	330													2433								7.5		7.3																								0.8/0.8		
8	clear	0.923	0.614	0.034	80	330													2540								7.5		7.3																								0.8/0.8		
9	clear	0.875	0.809	0.034	80	330	314	0.6	0.4	2651	2717	2533	2198	7710	420		87	2291	2408	71631	2186	4	166	33	0.041	8.0	7.2	7.3	7.0	7.0	7.0	7.0	360	140	160	140	70	0.07	0.07	0.04	0.01	2.7	5.8	4.7	1.9	0.3	0.3							0.8/0.8	5'/2.5'	5'/2'
10	clear	0.852	0.786	0.034	80	330	324	0.4	0.4	2673	2743	2660	2305	6918	460		87	2302	2345	72271	1962	3	173	37	0.038	8.0	7.2	7.3	7.0	7.0	7.0	7.1	380	140	160	140	64	0.00	0.00	0.00	0.00	3.1	6.1	4.8	1.7	0.3	0.3							0.8/0.8	5'/2.5'	3'/1.5'
11	clear	0.881	0.656	0.034	80	330													2425								7.9		7.2																								0.8/0.8		
12	overcast	0.852	0.844	0.034	80	330	367	0.4	0.4	2709	2667	2513	2176	6970	420		87	2608	2345	71737	1976	3	167	36	0.040	8.1	7.2	7.3	7.0	7.0	7.0	7.0	380	140	160	140	72	0.00	0.02	0.02	0.00	2.4	5.3	4.5	2.2	0.4	0.4							0.8/0.8	4'/2'	5'/2'
13	Rain	0.861	0.687	0.034	80	360	298	1.0	0.6	2674	2799	2598	2254	7396	440	20	87	2140	2585	73032	2097	6	169	35	0.043	7.9	7.2	7.3	7.1	7.0	7.0	7.1	300	140	160	140	38	0.02	0.00	0.00	0.00	2.0	5.3	4.3	2.7	0.3	0.4	2.8	4.9					0.8/0.8	5'/2'	5'/2.5
14	overcast	0.881	0.681	0.034	80	360													2645								7.6		7.1																								0.8/0.8		
15	overcast	0.928	0.677	0.034	80	360													2786								7.7		7.3																								0.8/0.8		
16	Foggy	0.879	0.879	0.034	80	360	256	1.6	0.6	2763	2806	2679	2330	8118	450		87	1877	2639	74313	2302	12	168	32	0.042	7.8	7.2	7.2	7.1	7.1	7.0	7.2	340	140	160	140	54	0.00	0.00	0.00	0.00	1.5	3.2	3.1	1.9	0.5	0.5							0.8/0.8	5'/2.5'	5'/2'
17	Rain	0.901	0.718	0.034	80	360	317	2.4	0.2	2769	2850	2651	2297	7090	440		87	2382	2705	74980	2010	14	166	37	0.044	7.9	7.2	7.2	7.0	7.0	6.9	7.1	360	160	160	160	58	0.02	0.00	0.00	0.00	1.2	2.1	2.6	1.8	0.3	0.4							0.8/0.8	5'/2'	5'/2'
18	overcast	0.905	0.858	0.034	80	360	279	1.6	1.0	2700	2740	2629	2283	7084	440		87	2106	2717	72591	2009	11	167	36	0.045	8.1	7.1	7.3	7.0	7.0	6.9	7.0	340	160	140	140	66	0.00	0.00	0.00	0.00	1.8	3.4	2.5	1.8	0.2	0.4							0.8/0.8	5'/2.5'	5'/2'
19	clear	0.885	0.878	0.034	80	360	270	1.6	0.2	2615	2682	2603	2265	7176	430		87	1993	2657	70683	2035	12	165	35	0.044	7.9	7.2	7.2	7.0	7.0	7.0	7.1	320	140	160	140	58	0.04	0.02	0.01	0.00	1.7	3.6	3.1	1.8	0.3	0.4							0.8/0.8	5'/2.5'	5'/2'
20	clear	0.863	0.607	0.034	80	270	282	0.6	1.0	2695	2697	2633	2287	6836	450	20	87	2030	1943	71951	1938	3	171	37	0.032	7.9	7.2	7.2	7.1	7.0	7.0	7.1	300	140	160	140	42	0.01	0.00	0.00	0.02	1.8	4.1	3.4	2.6	0.2	0.3	2.2	3.1					0.8/0.8	5'/3'	5'/2'
21	clear	0.878	0.870	0.034	80	270													1977								7.7		7.2																								0.8/0.8		
22	overcast	0.914	0.862	0.034	80	270													2058								7.6		7.2																								0.8/0.8		
23	clear	0.897	0.829	0.034	80	270	309	0.4	0.2	2854	2829	2627	2288	6922	450		87	2312	2020	75834	1963	3	171	39	0.033	7.9	7.2	7.2	7.0	7.0	7.0	7.1	360	140	140	140	72	0.06	0.04	0.02	0.02	1.9	4.5	4.2	2.6	0.1	0.3							0.8/0.8	5'/2'	5'/2'
24	overcast	0.884	0.802	0.034	80	270	316	1.0	1.4	2580	2539	2686	2337	7508	450		87	2330	1991	68308	2129	7	168	32	0.032	7.8	7.0	7.2	7.0	7.0	6.9	7.1	400	160	160	140	80	0.02	0.00	0.02	0.04	1.4	3.6	3.5	2.2	0.2	0.6							0.8/0.8	4.5'/2'	5'/2'
25	Rain	0.920	0.669	0.034	80	370	249	0.6	0.2	2740	2743	2616	2281	6870	440	20	87	1911	2839	73165	1948	3	168	37	0.047	7.6	7.2	7.1	7.2	7.1	7.0	7.2	300	140	140	140	48	0.02	0.01	0.02	0.02	1.1	3.5	3.3	2.5	0.2	0.6	3.0	4.9					0.8/0.8	4'/2'	4.5'/2'
26	clear	0.941	0.601	0.034	80	370													2904								7.7		7.3																								0.8/0.8		
27	clear	0.853	0.661	0.034	80	370													2632								7.7		7.3																								0.8/0.8		
28	clear	0.871	0.657	0.034	80	370													2688								7.8		7.2																								0.8/0.8		
29	clear	0.925	0.651	0.034	80	370													2854								7.6		7.3																								0.8/0.8		
30	clear	0.891	0.859	0.034	80	370	338	1.0	0.4	2868	2758	2680	2324	6878	470		87	2512	2749	75073	1950	7	175	38	0.044	8.2	7.2	7.3	7.1	7.1	6.9	7.1	360	160	160	160	76	0.05	0.03	0.00	0.00	1.4	1.2	1.7	1.6	0.2	0.5							0.8/0.8	5'/2.5'	5'/2'
Minimum		0.849	0.216	0.034	80	270	249	0.4	0.2	2580	2539	2513	2176	5902	400	19	86	1877	1943	68308	1674	0	154	31	0.033	7.5	7.0	7.0	7.0	6.9	6.9	7.0	300	140	140	140	38	0.00	0.00	0.00	0.00	1.1	1.2	1.7	1.6	0.1	0.3	0.0	3.1	0.0	0.0	0.0				
Maximum		0.941	0.949	0.035	80	370	467	6.4	1.4	2868	2850	2686	2337	8118	470	20	87	3420	2904	75834	2302	16	178	42	0.047	8.2	7.3	7.3	7.2	7.1	7.1	7.2	420	160	160	160	80	0.19	0.09	0.04	0.04	3.1	6.1	4.8	2.7	1.2	0.9	3.0	6.3	0.0	0.0	0.0				
Average		0.887	0.722	0.034	80	337	318	1.4	0.5	2700	2696	2613	2268	7076	438	20	87	2325	2490	71996	2006	7	168	36	0.041	7.8	7.2	7.2	7.1	7.0	7.0	7.1	356	149	157	146	62	0.03	0.02	0.01	0.01	1.8	4.1	3.5	2.1	0.3	0.4	2.0	4.8	#DIV/0!	#DIV/0!	#DIV/0!				

Month	December	Year	2020	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	TKN Inf. grab	TKN Eff. grab	TKN SE grab	DO SETPOINT AB1/AB2	#1 Clarifier Blanket feet Total/Solid	#2 Clarifier Blanket feet Total/Solid
1	overcaast	0.854	0.833	0.034	80	340	237	0.8	0.4	2778	2886	2841	2475	7828	490		87	1688	2422	75580	2220	6	172	34	0.037	7.9	7.2	7.2	7.0	7.0	6.9	7.1	320	140	140	140	64	0.02	0.02	0.00	0.00	1.4	1.8	2.1	2.3	0.2	0.4								0.8/0.8	5'/2.5'	5'/2'
2	overcaast	0.864	0.848	0.034	80	340	150	0.8	0.6	2759	2722	2884	2492	6700	470		86	1081	2450	73138	1900	6	163	38	0.037	7.7	7.0	7.1	6.9	6.9	6.9	6.9	300	160	160	160	48	0.00	0.00	0.00	0.00	1.0	1.7	2.1	2.2	0.02	0.3								0.8/0.8	3'/1'	3'/1'
3	overcaast	0.520	0.889	0.034	80	340	378	0.6	0.2	2881	2891	2755	2396	7262	470		87	1639	1475	77022	2059	4	171	37	0.023	8.1	7.2	7.2	7.1	7.0	7.0	7.1	360	140	160	140	76	0.02	0.01	0.03	0.00	1.2	1.9	2.1	2.0	0.4	0.6								0.8/0.8	5'/2'	4'/1.5'
4	clear	0.841	0.763	0.034	80	420	307	1.4	1.0	2919	2928	2746	2381	7642	470	19	87	2153	2946	78022	2167	9	171	36	0.046	7.8	7.2	7.2	7.1	7.0	6.9	7.1	280	140	140	140	58	0.01	0.00	0.07	0.00	1.1	1.6	2.1	2.4	0.2	0.6	2.8	5.0						0.8/0.8	4'/2'	4'/1.5'
5	scattered	0.862	0.741	0.034	80	420													3019							8.0		7.0																										0.8/0.8		
6	scattered	0.907	0.742	0.034	80	420													3177							7.7		7.0																										0.8/0.8		
7	clear	0.861	0.879	0.034	80	420	355	0.8	0.6	2779	2898	2676	2325	7372	500		87	2549	3016	75754	2090	6	187	36	0.049	8.1	7.2	7.2	7.0	7.0	6.9	7.0	360	140	140	140	74	0.05	0.03	0.00	0.00	0.8	1.4	2.2	2.0	0.2	0.6								0.8/0.8	5'/2.5'	4'/2'
8	clear	0.840	0.798	0.034	80	420	302	0.8	0.6	2758	2789	2671	2325	7464	480		87	2116	2942	74019	2116	5	180	35	0.047	7.9	7.1	7.2	7.0	7.0	6.9	7.0	320	140	140	140	48	0.03	0.02	0.00	0.01	1.0	1.9	1.9	2.0	0.3	0.6								0.8/0.8	4'/2'	4'/1.5'
9	overcast	0.844	0.828	0.034	80	420	297	2.2	0.2	2741	2825	2654	2320	7572	490		87	2091	2956	74273	2147	15	185	34	0.048	8.0	7.1	7.3	7.0	7.0	6.9	7.1	340	140	140	140	70	0.01	0.01	0.01	0.00	1.0	2.2	2.3	2.1	0.3	0.6								0.8/0.8	5'/2.5'	5'/2'
10	clear	0.841	0.841	0.034	80	420	283	0.8	0.2	2772	2808	2711	2372	8152	480		87	1985	2946	74460	2312	6	177	32	0.047	7.9	7.2	7.3	7.0	7.0	6.9	7.1	320	140	140	120	72	0.01	0.00	0.00	0.00	1.1	2.4	2.5	2.1	0.3	0.6								0.8/0.8	5'/2'	5'/2'
11	overcast	0.855	0.825	0.034	80	420	252	2.2	0.8	2845	2847	2686	2343	6952	490	19	87	1797	2995	75954	1971	15	182	38	0.048	7.8	7.1	7.1	7.0	7.0	6.9	7.0	300	140	140	140	44	0.00	0.00	0.00	0.00	1.2	3.2	2.7	2.1	0.3	0.6	2.4	6.2						0.8/0.8	4'/2'	4'/2'
12	overcaast	0.864	0.845	0.034	80	420													3026							7.8		7.1																										0.8/0.8		
13	Rain	0.970	0.833	0.034	80	420													3398							7.9		7.1																										0.8/0.8		
14	overcaast	0.923	0.965	0.035	80	420	303	2.8	1.0	2843	2906	2804	2357	7510	500		84	2332	3233	76715	2192	23	178	35	0.051	7.9	7.1	7.2	7.0	7.0	6.9	7.0	320	140	140	120	62	0.00	0.00	0.00	0.00	1.0	3.0	2.9	2.3	0.2	0.5								0.8/0.8	5'/2.5'	6'/3'
15	Rain	0.890	0.925	0.036	80	420	323	2.2	1.8	2850	2831	2791	2457	7552	510		88	2397	3117	75807	2267	17	183	33	0.048	7.9	7.1	7.2	7.0	7.0	6.9	7.1	320	140	140	140	56	0.02	0.01	0.02	0.00	0.9	2.6	2.7	2.3	0.3	0.5								0.8/0.8	5'/2.5'	5'/2'
16	Rain	0.955	0.900	0.036	80	420	202	1.2	1.2	2845	2856	2757	2410	7172	500		87	1609	3345	76074	2153	9	181	35	0.052	7.9	7.1	7.1	7.0	7.0	6.9	7.1	300	140	140	140	58	0.00	0.00	0.00	0.00	1.5	3.6	3.3	2.3	0.2	0.5								0.8/0.8	5'/2.5'	5'/2'
17	Rain	0.971	0.994	0.036	80	420	209	1.8	0.4	2827	2897	2660	2320	7102	490		87	1693	3401	76381	2132	15	184	36	0.055	7.9	7.1	7.3	7.0	6.9	7.0	7.0	320	140	140	140	52	0.02	0.02	0.03	0.02	2.1	4.7	3.6	2.5	0.2	0.5								0.8/0.8	6'/2.5'	5'/2.5'
18	clear	0.916	0.991	0.036	80	420	258	2.6	1.6	2657	2760	2716	2374	6302	490	17	87	1971	3209	72284	1892	21	180	38	0.051	7.8	7.1	7.1	7.0	6.9	6.9	7.1	280	120	140	120	44	0.05	0.02	0.00	0.03	2.7	5.4	4.2	3.1	0.2	0.5	0.0	0.0						0.8/0.8	6'/2.5'	5'/2.5'
19	Rain	0.875	1.032	0.036	80	332													2423							8.2		7.0																										0.8/0.8		
20	overcaast	0.894	0.926	0.036	80	332													2475							7.6		6.9																										0.8/0.8		
21	overcaast	0.883	1.097	0.036	80	332	131	0.6	0.2	2734	2755	2613	2296	7088	500		88	965	2445	73245	2128	5	191	34	0.040	7.6	7.1	7.1	7.0	7.0	6.9	7.0	260	140	140	140	38	0.05	0.07	0.02	0.42	1.1	2.6	2.5	2.3	0.2	0.4								0.8/0.8	5'/2.5'	5'/2'
22	clear	0.871	1.050	0.036	80	332	303	0.8	0.4	2687	2684	2604	2275	7230	530		87	2201	2412	71671	2171	7	204	33	0.040	8.0	7.1	7.1	7.0	6.9	6.9	7.1	280	140	140	140	56	0.02	0.04	0.83	0.94	1.1	2.1	1.9	1.8	0.3	0.7								0.8/0.8	6'/2.5'	5'/3'
23	clear	0.863	0.967	0.036	80	350	238	1.6	0.8	2655	2820	2523	2203	7432	510	14	87	1713	2519	73058	2231	13	202	33	0.043	8.0	7.1	7.1	7.0	7.0	6.9	7.0	280	140	160	140	40	0.04	0.03	2.39	1.13	1.2	2.7	2.3	2.5	0.8	0.9	4.3	5.1						0.8/0.8	5'/2.5'	5'/2'
24	clear	0.887	1.116	0.036	80	350													2589							7.4		7.2																										0.8/0.8		
25	Rain	0.850	1.109	0.036	80	350													2481							7.7		7.0																										0.8/0.8		
26	scattered	0.947	1.106	0.036	80	350													2764							8.2		7.1																										0.8/0.8		
27	scattered	0.927	1.109	0.036	80	350													2706							8.5		7.1																										0.8/0.8		
28	clear	0.882	1.172	0.036	80	350	257	3.2	2.8	2736	2697	2738	2382	6946	550		87		2575	72498	2085	31	201	34	0.040	8.0	7.1	7.1	7.0	7.0	6.9	7.0	320	140	140	140	70	0.03	0.03	1.37	1.58	1.2	2.7	2.0	2.1	0.5	0.9								0.8/0.8	6'/2.5'	5'/2'
29	clear	0.861	1.059	0.036	80	350	80	3.0	1.4	2529	2611	2559	2252	6954	540		88	574	2513	68588	2088	26	211	32	0.042	7.5	7.1	7.2	7.0	7.0	6.9	7.0	220	140	140	140	38	0.19	0.18	1.85	2.02	1.1	2.6	2.2	1.8	0.5	0.9								0.8/0.8	5'/2.5'	5'/2'
30	overcast	0.868	1.079	0.036	80	400	267	1.6	0.6	2744	2725	2506	2210	6170	560	18	88	1933	2896	72978	1852	14	223	39	0.049	8.0	7.1	7.1	7.0	6.9	6.9	7.1	280	140	140	120	46	0.04	0.03	1.74	0.84	1.1	2.4	2.2	2.4	0.7	1.0								0.8/0.8	6'/2.5'	5'/2'
31	overcast	0.880	1.026	0.036	80	400													2936							8.0		7.1																										0.8/0.8		
Minimum		0.520	0.741	0.034	80	332	80	0.6	0.2	2529	2611	2506	2203	6170	470	14	84	574	1475	68588	1852	4	163	32	0.025	7.4	7.0	6.9	6.9	6.9	6.9	6.9	220	120	140	120	38	0.00	0.00	0.00	0.00	0.8	1.4	1.9	1.8	0.0	0.3	0.0	0.0	0.0								
Maximum		0.971	1.172	0.036	80	420	378	3.2	2.8	2919	2928	2884	2492	8152	560	19	88	2549	3401	78022	2312	31	223	39	0.051	8.5	7.2	7.3	7.1	7.0	7.0	7.1	360	160	160	160	76	0.19	0.18	2.39	2.02	2.7	5.4	4.2	3.1	0.8	1.1	4.3	6.7	0.0	0.0	0.0								
Average		0.873	0.945	0.035	80	384	257	1.6	0.8	2767	2807	2695	2348	7220	501	17	87	1815	2800	74376	2109	13	186	35	0.045	7.9	7.1	7.1	7.0	7.0	6.9	7.0	304	140	143	137	56	0.03	0.03	0.42	0.35	1.2	2.6	2.5	2.2	0.3	0.7	2.7	4.6	#DIV/0!	#DIV/0!	#DIV/0!								

McKINLEYVILLE COMMUNITY SERVICES DISTRICT
WASTEWATER MANAGEMENT FACILITY
SLUDGE and SOLIDS MONITORING/Feet 2020

	Biosolids Basin			Pond 2	
	CENTER	SOUTH	NORTH	North to South	East to West
1	8.5	6.0	6.0	0.25	0.25
2	8.5	5.0	7.0	0.50	0.25
3	6.5	6.0	7.5	0.50	0.00
4	8.0	6.5	6.5	0.25	0.00
5	6.5	5.5	7.0	0.25	0.25
6	7.0	7.5	6.5	0.25	0.25
7	6.0	7.0	6.0	0.25	0.25
8	6.5	7.0	6.0	0.25	0.50
9	6.5	6.5	7.0	0.25	0.25
10	6.0	7.0	5.5	0.50	0.25
11	5.0	6.5	6.0	0.25	0.25
12	5.0	7.0	6.0	0.25	0.25
13	6.0	6.5	6.0	0.50	0.50
14	6.0	6.5	6.5	0.25	0.50
15	6.5	6.0	7.0	0.50	0.25
16	6.0	7.0	6.0	0.25	0.25
17	6.0	6.0	6.5	0.25	0.25
18	6.0	6.0	5.5	0.25	
19	6.5	6.0	6.5	0.50	
20	6.0	6.0	6.5	0.25	
21	6.0	6.5	7.0	0.25	
22	6.3	7.0	7.5	0.25	
23	6.0	6.0	6.5	0.50	
24	5.0	7	6	0.25	
25	5.0	7	6	0.50	
AVERAGE	6.3	6.4	6.4		
MAXIMUM	8.5	7.5	7.5		
MINIMUM	5.0	5.0	5.5		

ALL

AVERAGE	ALL	6.4		AVERAGE		
MAXIMUM	ALL	8.5		MAXIMUM		
MINIMUM	ALL	5.0		MINIMUM		

Biosolids Basin Sludge to date: 4.03 Million Gallons (6.4' depth)
Max Solids Depth=9' (5.68 Million Gallons) .631 Million Gallons of sludge/ft

TOTAL 4.04 MG

CAPACITY Biosolids Basin= 5.68 Million Gallons

REMAINING Capacity in Biosolids Basin= 1.65 Million Gallons

TOTAL REMAINING SLUDGE CAPACITY 1.65 Million Gallons (2.61 depth')

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 2020 the company removed 775 tons of hay 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 2020**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	3.1	36	1.164	79.849	2.218
Fischer Lower	003	3.1	45	0.000	0.000	0.000
Pialorsi	006	3.1	88	0.000	0.000	0.000
Hiller	005	3.1	25	0.000	0.000	0.000

Recycle Water Production and Use		**JUNE 2020**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	3.4	36	1.200	90.303	2.508
Fischer Lower	003	3.4	45	0.000	0.000	0.000
Pialorsi	006	3.4	88	0.000	0.000	0.000
Hiller	005	3.4	25	0.217	11.336	0.453

Recycle Water Production and Use		**JULY 2020**				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	1.70	36	1.055	39.692	1.103
Fischer Lower	003	1.70	45	0.091	4.282	0.095
Pialorsi	006	1.70	88	0.000	0.000	0.000
Hiller	005	1.70	25	0.270	7.047	0.282

Recycle Water Production and Use		AUGUST 2020				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	0.8	36	0.791	13.999	0.389
Fischer Lower	003	0.8	45	0.121	2.670	0.059
Pialorsi	006	0.8	88	0.034	1.479	0.017
Hiller	005	0.8	25	0.000	0.000	0.00

Recycle Water Production and Use		SEPTEMBER 2020				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	0.40	36	0.958	8.483	0.236
Fischer Lower	003	0.40	45	0.182	2.017	0.045
Pialorsi	006	0.40	88	0.055	1.199	0.014
Hiller	005	0.40	25	0.000	0.000	0.000

Recycle Water Production and Use		OCTOBER 2020				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	0.60	36	0.904	12.005	0.333
Fischer Lower	003	0.60	45	0.032	0.531	0.012
Pialorsi	006	0.60	88	0.106	3.443	0.039
Hiller	005	0.60	25	0.000	0.000	0.000

Recycle Water Production and Use		NOVEMBER 2020				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	1.1	36	0.701	17.076	0.474
Fischer Lower	003	1.1	45	0.024	0.739	0.016
Pialorsi	006	1.1	88	0.068	4.049	0.046
Hiller	005	1.1	25	0.000	0.000	0.000

Recycle Water Production and Use		DECEMBER 2020				
Location	Discharge Point	Nitrate/mg/l	total acres	acre-feet/mo	lbs	lbs/acre-month
Fischer Upper	004	1.4	36	0.836	25.901	0.719
Fischer Lower	003	1.4	45	0.017	0.658	0.015
Pialorsi	006	1.4	88	0.103	7.813	0.089
Hiller	005	1.4	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

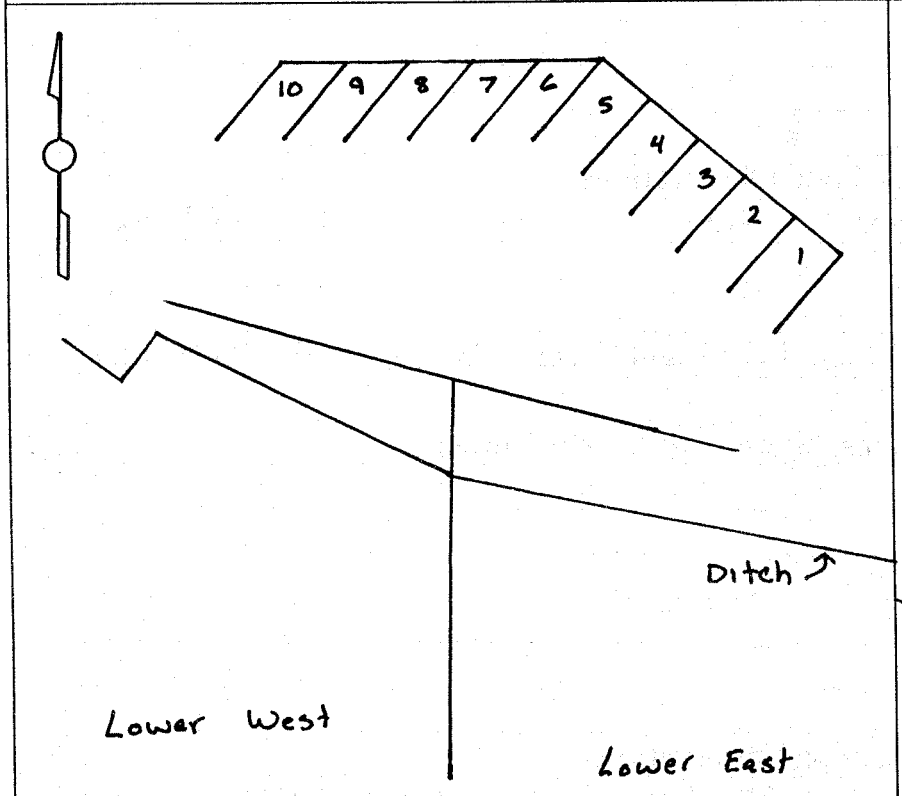
	Fischer Rd.	Hiller East	Flood Cells	Pialorsi Ranch
Irrigation Location				
CL_2 Res.				
Overspray (y/n)				
Ponding (y/n)				
Run-off (y/n)				
Location of cows				
Weather Conditions				
Wind dir. & speed				
Complaints (y/n)				
Compliance (y/n)				
Setback (y/n)				

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

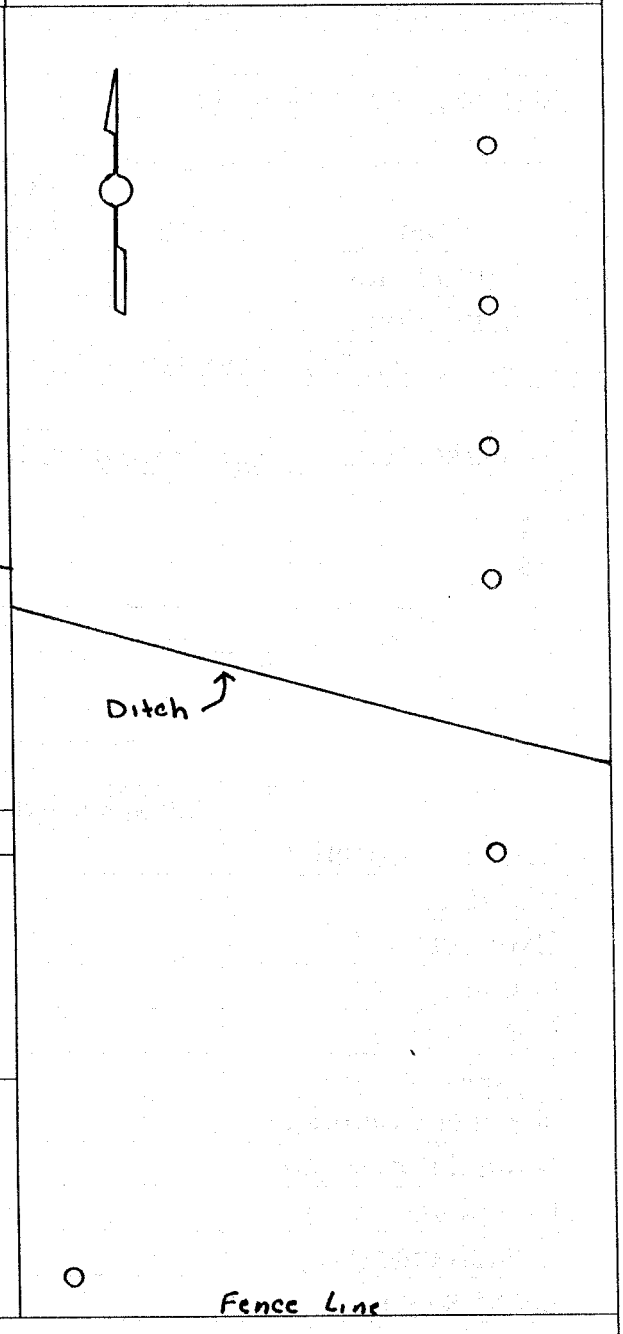
RECLAMATION SITE OBSERVATIONS AND REMARKS

IRRIGATION SITE DIAGRAMS

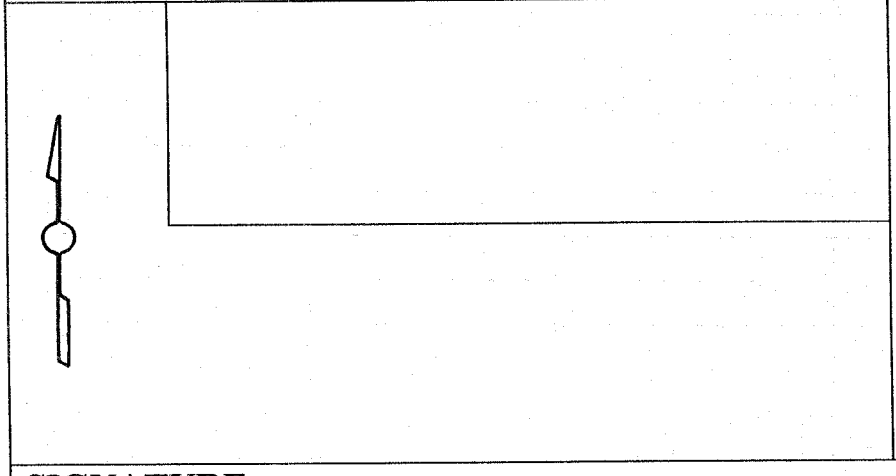
FISCHER ROAD RANCH



HILLER EAST



PIALORSI RANCH



SIGNATURE

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
1-1-20	DS	OK
1-2-20	KS	OK
1-3-20	DS	OK
1-4-20	DS	OK
1-5-20	DS	OK
1-6-2020	CJ	OK
1-7-20	KS	OK
1-8-2020	CJ	OK
1-9-2020	CJ	OK
1-10-20	KS	OK
1-11-2020	KS	OK
1-12-20	KS	OK
1-13-20	DS	ok
1-14-2020	CJ	OK
1-15-2020	DS	OK
1-16-2020	DS	ok
1-17-2020	DS	OK
1-18-2020	CJ	ok
1-19-2020	CJ	OK
1-20-2020	CJ	OK
1-21-2020	JJ	OK
1-22-2020	JJ	OK
1-23-2020	JJ	OK
1-24-2020	JJ	ok
1-25-20	KS	OK
1-26-20	KS	OK
1-27-2020	JJ	OK
1-28-2020	JJ	OK
1-29-20	DS	OK
1-30-20	JJ	OK
1-31-20	JJ	OK
2-1-20	JJ	OK
2-2-20	JJ	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
2-3-20	JJ	ok
2-4-20	JJ	ok
2-5-20	DS	ok
2-6-20	JJ	ok
2-7-20	JJ	ok
2-8-20	CJ	ok
2-9-20	CJ	ok
2-10-20	JJ	ok
2-11-20	JJ	ok
2-12-20	JJ	ok
2-13-20	JJ	ok
2-14-20	JJ	ok
2-15-20	KS	OK
2-16-20	KS	OK
2-17-20	KS	OK
2-18-20	JJ	ok
2-19-20	JJ	ok
2-20-20	JJ	ok
2-21-20	JJ	ok
2-22-20	DS	ok
2-23-20	DS	ok
2-24-20	JJ	ok
2-25-20	JJ	ok
2-26-20	CJ	ok
2-27-20	JJ	ok
2-28-20	JJ	ok
2-29-20	CJ	ok
3-1-20	CJ	ok
3-2-20	JJ	ok
3-3-20	JJ	ok
3-4-20	JJ	ok
3-5-20	JJ	ok
3-6-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
3-7-20	JJ	OK
3-8-20	JJ	ok
3-9-20	JJ	OK
3-10-20	JJ	ok
3-11-20	JJ	OK
3-12-20	JJ	ok
3-13-20	JJ	OK
3-16-20	JJ	ok
3-17-20	JJ	ok
3-18-20	JJ	OK
3-19-20	JJ	OK
3-20-20	JJ	ok
3-21-20	AJ	ok
3-22-20	CJ	OK
3-23-20	JJ	ok
3-24-20	JJ	ok
3-25-20	DS	OK
3-26-20	JJ	OK
3-27-20	DS	OK
3-28-20	JJ	ok
3-29-20	JJ	OK
3-30-20	DS	OK
3-31-20	DS	OK
4-1-20	DS	OK
4-2-20	DS	OK
4-3-20	DS	OK
4-4-20	KS	OK
4-5-20	KS	OK
4-6-20	DS	OK
4-7-20	DS	ok
4-8-20	DS	OK
4-9-20	DS	OK
4-10-20	DS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
4-11-20	CJ	OK
4-12-20	CJ	OK
4-13-20	DS	OK
4-14-20	DS	Ok
4-15-20	DS	OK
4-16-20	DS	Ok
4-17-20	DS	Ok
4-18-20	JS	OK
4-19-20	JS	OK
4-20-20	DS	OK
4-21-20	DS	OK
4-22-20	DS	OK
4-23-20	DS	Ok
4-24-20	DS	OK
4-25-20	CJ	OK
4-26-20	CJ	OK
4-27-20	DS	Ok
4-28-20	DS	OK
4-29-20	DS	Ok
4-30-20	DS	OK CHANGED BUFFER SOLUTIONS
5-1-20	DS	OK
5-2-20	JS	OK
5-3-20	KS	OK
5-4-20	DS	OK
5-5-20	DS	OK
5-6-20	DS	OK
5-7-20	DS	Ok
5-8-20	DS	OK
5-9-20	DS	OK
5-10-20	DS	OK
5-11-20	DS	OK
5-12-20	DS	OK
5-13-20	DS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
5-14-20	JJ	ok
5-15-20	DS	ok
5-16-20	KS	OK
5-17-20	KS	Ok
5-18-20	DS	ok
5-19-20	DS	ok
5-20-20	DS	ok
5-21-20	DS	ok
5-22-20	DS	ok
5-23-20	CJ	OK
5-24-20	CJ	OK
5-25-20	CJ	ok
5-26-20	DS	ok
5-27-20	JJ	ok
5-28-20	DS	ok
5-29-20	DS	ok
5-30-20	JJ	ok
5-31-20	JJ	Ok
6-1-20	DS	ok
6-2-20	JJ	ok
6-3-20	CJ	ok
6-4-20	DS	ok
6-5-20	DS	ok
6-6-20	JJ	ok
6-7-20	JJ	ok
6-8-20	DS	ok
6-9-20	CJ	ok
6-10-20	DS	ok
6-11-20	DS	OK
6-12-20	JJ	ok
6-13-20	CJ	ok
6-14-20	CJ	ok
6-15-20	DS	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
6/16/20	DS	ok
6-17-20	DS	Ok
6-18-20	DS	ok
6-19-20	DS	ok
6-20-20	DS	ok
6-21-20	DS	ok
6-22-20	DS	ok
6-23-20	DS	ok
6-24-20	DS	ok
6-25-20	DS	ok
6-26-20	JJ	ok
6-27-20	KS	*Cleaned* ok *Changed prob solution*
6-28-20	KS	ok
6-29-20	DS	ok
6-30-20	DS	ok
7-1-20	DS	ok
7-2-20	JJ	ok
7-3-20	KS	ok
7-4-20	KS	ok
7-5-20	KS	ok
7-6-20	JJ	ok
7-7-20	JJ	ok
7-8-20	JJ	ok
7-9-20	JJ	ok
7-10-20	JJ	ok
7-11-20	JJ	ok
7-12-20	JJ	ok
7-13-20	JJ	ok
7-14-20	JJ	ok
7-15-20	JJ	ok
7-16-20	JJ	ok
7-17-20	JJ	ok
7-18-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
7-19-20	JJ	ok
7-20-20	JJ	ok
7-21-20	DS	ok
7-22-20	JJ	ok
7-23-20	JJ	ok
7-24-20	JJ	ok
7-25-20	CJ	ok
7-26-20	CJ	ok
7-27-20	JJ	ok
7-28-20	JJ	ok
7-29-20	CJ	ok
7-30-20	JJ	ok
7-31-20	JJ	ok
8-1-20	KS	ok
8-2-20	KS	ok
8-3-20	JJ	ok
8-4-20	JJ	ok
8-5-20	JJ	ok
8-6-20	JJ	ok
8-7-20	JJ	ok
8-8-20	JJ	ok
8-9-20	JJ	ok
8-10-20	JJ	ok
8-11-20	JJ	ok
8-12-20	JJ	ok
8-13-20	JJ	ok New DO Probe
8-14-20	JJ	ok
8-15-20	DS	ok
8-16-20	DS	ok
8-17-20	JJ	ok
8-18-20	JJ	ok
8-19-20	JJ	ok
8-20-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
8-21-20	JJ	ok
8-22-20	JJ	ok
8-23-20	JJ	ok
8-24-20	JJ	ok
8-25-20	CJ	ok
8-26-20	JJ	ok
8-27-20	KS	ok
8-28-20	JJ	ok
8-29-20	KS	ok
8-30-20	KS	ok
8-31-20	JJ	ok
9-1-20	JJ	ok
9-2-20	JJ	ok
9-3-20	JJ	ok
9-4-20	JJ	ok
9-5-20	DS	ok
9-6-20	DS	ok
9-7-20	DS	ok
9-8-20	JJ	ok
9-9-20	JJ	ok
9-10-20	JJ	ok
9-11-20	KS	ok
9-12-20	KS	ok
9-13-20	KS	ok
9-14-20	JJ	ok
9-15-20	JJ	ok
9-16-20	DS	ok
9-17-20	JJ	ok
9-18-20	KS	ok
9-19-20	CJ	ok
9-20-20	CJ	ok
9-21-20	JJ	ok
9-22-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
9-23-20	DS	OK
9-24-20	DS	OK
9-25-20	DS	OK
9-26-20	CJ	OK
9-27-20	CJ	OK
9-28-20	JJ	ok
9-29-20	JJ	ok
9-30-20	JJ	ok
10-1-20	JJ	ok
10-2-20	DS	OK
10-3-20	CJ	OK
10-4-20	CJ	OK
10-5-20	JJ	ok
10-6-20	JJ	ok
10-7-20	JJ	ok
10-8-20	JJ	ok
10-9-20	JJ	ok
10-10-20	JJ	ok
10-11-20	DS	OK
10-12-20	JJ	ok
10-13-20	JJ	ok
10-14-20	JJ	ok
10-15-20	JJ	ok
10-16-20	JJ	ok
10-17-20	KS	OK
10-18-20	JJ	ok
10-19-20	JJ	ok
10-20-20	JJ	ok
10-21-20	JJ	ok
10-22-20	JJ	ok
10-23-20	JJ	ok
10-24-20	KS	OK
10-25-20	KS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
10-26-20	JJ	ok
10-27-20	JJ	ok
10-28-20	JJ	ok
10-29-20	JJ	ok
10-30-20	JJ	ok
10-31-20	CJ	ok
11-1-20	CJ	ok
11-2-20	JJ	ok
11-3-20	JJ	ok
11-4-20	JJ	ok
11-5-20	JJ	ok
11-6-20	JJ	ok
11-7-20	DS	OK
11-8-20	DS	OK
11-9-20	JJ	ok
11-10-20	JJ	ok
11-11-20	DS	OK
11-12-20	JJ	ok
11-13-20	JJ	ok
11-14-20	JJ	ok
11-15-20	JJ	ok
11-16-20	JJ	ok
11-17-20	JJ	ok
11-18-20	JJ	ok
11-19-20	JJ	ok
11-20-20	JJ	ok
11-21-20	JJ	ok
11-22-20	JJ	ok
11-23-20	JJ	ok
11-24-20	JJ	ok
11-25-20	DS	OK
11-26-20	JJ	ok
11-27-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
11-28-20	JJ	OK
11-29-20	JJ	ok
11-30-20	JJ	OK
12-1-20	JJ	ok
12-2-20	KS	OK
12-3-20	JJ	ok
12-4-20	JJ	OK
12-5-20	KS	OK
12-6-20	KS	OK
12-7-20	JJ	OK
12-8-20	JJ	ok
12-9-20	JJ	ok
12-10-20	JJ	ok
12-11-20	JJ	ok
12-12-20	CJ	ok
12-13-20	CJ	OK
12-14-20	JJ	ok
12-15-20	JJ	ok
12-16-20	JJ	ok
12-17-20	JJ	ok
12-18-20	JJ	OK
12-19-20	DS	OK
12-20-20	DS	OK
12-21-20	JJ	OK
12-22-20	JJ	ok
12-23-20	JJ	ok
12-24-20	DS	OK
12-25-20	DS	OK
12-26-20	CJ	ok
12-27-20	CJ	ok
12-28-20	JJ	ok
12-29-20	JJ	ok
12-30-20	JJ	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log

Calibration to be conducted daily

Date	Calibrated by	Remarks
12-31-20	JJ	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
1-1-20	DS	58.9	ok
1-2-20	RS	58.8	OK
1-3-20	DS	58.7	ok
1-4-20	DS	58.8	OK
1-5-20	DS	58.7	ok
1-6-2020	CJ	57.1	ok
1-7-20	KS	58.6	OK
1-8-2020	CJ	58.2	OK
1-9-2020	CJ	56.9	OK
1-10-20	KS	57.6	Ok
1-11-2020	KS	59.1	OK
1-12-20	KS	59.2	Ok
1-13-20	DS	58.5	ok
1-14-2020	CJ	59.0	OK
1-15-2020	DS	58.6	ok
1-16-2020	DS	59.1	ok
1-17-2020	DS	58.4	ok
1-18-2020	CJ	58.7	OK
1-19-2020	CJ	58.8	OK
1-20-2020	CJ	58.6	OK
1-21-2020	JJ	58.2	OK
1-22-2020	JJ	58.2	ok
1-23-2020	JJ	58.1	OK
1-24-2020	JJ	58.2	OK
1-25-20	KS	58.0	Ok
1-26-20	KS	57.9	Cleaned Probe OK Changed PH Buffers
1-27-2020	JJ	60.0	ok
1-28-2020	JJ	59.0	OK
1-29-20	DS	59.0	OK
1-30-20	JJ	59.0	OK
1-31-20	JJ	58.3	ok
2-1-20	JJ	58.8	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
2-2-20	JJ	59.0	ok
2-3-20	JJ	59.0	ok
2-4-20	JJ	59.0	ok
2-5-20	DS	58.9	ok
2-6-20	JJ	58.7	ok
2-7-20	JJ	58.7	ok
2-8-20	CJ	58.5	ok
2-9-20	CJ	58.5	ok
2-10-20	JJ	58.6	ok
2-11-20	JJ	58.4	ok
2-12-20	JJ	58.4	ok
2-13-20	JJ	58.3	ok
2-14-20	JJ	58.2	ok
2-15-20	KS	58.2	ok
2-16-20	KS	58.0	ok
2-17-20	KS	58.0	ok
2-18-20	JJ	58.1	ok
2-19-20	JJ	57.8	ok
2-20-20	JJ	57.8	ok
2-21-20	JJ	57.8	ok
2-22-20	DS	57.7	ok
2-23-20	DS	57.6	ok
2-24-20	JJ	57.6	ok
2-25-20	JJ	57.5	ok
2-26-20	CJ	57.2	ok
2-27-20	JJ	57.3	ok
2-28-20	JJ	57.3	ok
2-29-20	CJ	57.2	ok
3-1-20	CJ	55.9	ok
3-2-20	JJ	57.3	ok
3-3-20	JJ	57.1	ok
3-4-20	JJ	57.1	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
3-5-20	JJ	56.9	ok
3-6-20	JJ	56.9	ok
3-7-20	JJ	56.6	ok
3-8-20	JJ	56.9	ok
3-9-20	JJ	56.7	ok Changed PH Buffers & Storage Solution
3-10-20	JJ	59.2	ok
3-11-20	JJ	59.1	ok
3-12-20	JJ	58.9	ok
3-13-20	JJ	59.0	ok
3-16-20	JJ	59.0	ok
3-17-20	JJ	58.8	ok
3-18-20	JJ	58.9	ok
3-19-20	JJ	58.8	ok
3-20-20	JJ	58.8	ok
3-21-20	CJ	58.5	ok
3-22-20	CJ	58.3	ok
3-23-20	JJ	58.5	ok
3-24-20	JJ	58.5	ok
3-25-20	DS	58.6	ok
3-26-20	JJ	58.6	ok
3-27-20	DS	58.4	ok
3-28-20	JJ	58.4	ok
3-29-20	JJ	58.3	ok
3-30-20	DS	58.3	ok
3-31-20	DS	58.2	ok
4-1-20	DS	58.3	ok
4-2-20	DS	58.3	ok
4-3-20	DS	58.2	ok
4-4-20	KS	58.1	ok
4-5-20	KS	58.1	ok
4-6-20	DS	58.2	ok
4-7-20	DS	58.0	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
4-8-20	DS	57.9	OK
4-9-20	DS	57.8	ok
4-10-20	DS	59.3	OK - CHANGED BUFFER SOLUTIONS, CLEAN PROBE
4-11-20	CJ	59.3	Ok
4-12-20	CJ	59.3	OK
4-13-20	DS	59.5	OK
4-14-20	DS	59.4	Ok
4-15-20	DS	59.3	ok
4-16-20	DS	59.2	ok
4-17-20	DS	59.2	ok
4-18-20	JJ	58.9	Ok
4-19-20	JJ	59.1	ok
4-20-20	DS	59.1	Ok
4-21-20	DS	58.7	ok
4-22-20	DS	59.0	ok
4-23-20	DS	58.7	ok
4-24-20	DS	58.7	Ok
4-25-20	CJ	57.6	Ok
4-26-20	CJ	58.5	ok
4-27-20	DS	58.6	Ok
4-28-20	DS	58.5	Ok
4-29-20	DS	58.4	Ok
4-30-20	DS	58.4	Ok
5-1-20	DS	59.0	OK
5-2-20	JJ	58.8	Ok
5-3-20	KS	59.0	OK
5-4-20	DS	59.0	Ok
5-5-20	DS	58.8	Ok
5-6-20	DS	58.7	Ok
5-7-20	DS	58.8	OK
5-8-20	DS	58.7	Ok
5-9-20	DS	58.7	Ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
5-10-20	DS	58.5	OK
5-11-20	DS	58.7	OK
5-12-20	DS	58.4	OK
5-13-20	DS	58.4	OK
5-14-20	JJ	58.4	ok
5-15-20	DS	58.3	OK
5-16-20	KS	58.1	OK
5-17-20	KS	58.2	OK
5-18-20	DS	58.3	OK CHANGED BUFFER SOLUTIONS
5-19-20	DS	58.8	OK
5-20-20	DS	58.8	OK
5-21-20	DS	58.7	OK
5-22-20	DS	58.8	OK
5-23-20	CJ	58.6	ok
5-24-20	CJ	58.5	ok
5-25-20	CJ	58.3	ok
5-26-20	DS	58.6	OK
5-27-20	JJ	58.2	ok
5-28-20	DS	58.5	OK
5-29-20	DS	58.3	OK
5-30-20	JJ	58.4	OK
5-31-20	JJ	58.5	ok
6-1-20	DS	58.4	OK
6-2-20	JJ	58.4	ok
6-3-20	DS	58.3	OK
6-4-20	DS	57.9	OK
6-5-20	DS	58.1	ok
6-6-20	JJ	58.1	OK
6-7-20	JJ	58.1	OK
6-8-20	DS	58.1	OK
6-9-20	CJ	57.8	
6-10-20	DS	58.0	OK, CHANGED BUFFER/STORAGE SOLUTIONS

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
6-11-20	DS	58.6	ok
6-12-20	JJ	58.3	ok
6-13-20	CJ	58.5	ok
6-14-20	CJ	58.2	ok
6-15-20	DS	58.3	ok
6-16 20	DS	58.5	ok
6-17-20	DS	58.4	ok
6-18-20	DS	58.6	ok
6-19-20	DS	58.4	ok
6-20-20	DS	58.4	ok
6-21-20	DS	58.3	ok
6-22-20	DS	58.2	ok
6-23-20	DS	58.3	ok
6-24-20	DS	58.2	ok
6-25-20	DS	58.2	ok
6-26-20	JJ	58.1	ok
6-27-20	KS	58.2	ok
6-28-20	KS	58.2	ok
6-29-20	DS	58.3	ok
6-30-20	DS	58.4	ok
7-1-20	DS	58.3	ok
7-2-20	JJ	58.2	ok
7-3-20	KS	58.1	ok
7-4-20	KS	58.1	ok
7-5-20	KS	58.1	ok
7-6-20	JJ	57.9	ok
7-7-20	JJ	58.0	ok
7-8-20	JJ	57.8	ok
7-9-20	JJ	57.8	ok
7-10-20	JJ	57.6	ok
7-11-20	JJ	57.4	ok
7-12-20	JJ	57.8	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
7-13-20	JJ	57.7	ok
7-14-20	JJ	57.7	ok
7-15-20	JJ	57.6	ok
7-16-20	JJ	57.7	ok
7-17-20	JJ	57.7	ok
7-18-20	JJ	57.7	ok
7-19-20	JJ	57.3	ok
7-20-20	JJ	57.2	ok
7-21-20	DS	57.3	ok
7-22-20	JJ	57.0	ok
7-23-20	JJ	57.0	ok
7-24-20	JJ	57.0	ok Changed Buffer Solution
7-25-20	CJ	58.8	ok
7-26-20	CJ	58.5	ok
7-27-20	JJ	58.3	ok
7-28-20	JJ	58.6	ok
7-29-20	CJ	58.6	ok
7-30-20	JJ	58.4	ok
7-31-20	JJ	58.5	ok
8-1-20	KS	58.5	ok
8-2-20	KS	58.3	ok
8-3-20	JJ	58.1	ok
8-4-20	JJ	57.8	ok
8-5-20	JJ	58.0	ok
8-6-20	JJ	58.2	ok
8-7-20	JJ	57.5	ok
8-8-20	JJ	58.2	ok
8-9-20	JJ	58.0	ok
8-10-20	JJ	57.8	ok
8-11-20	JJ	57.8	ok
8-12-20	JJ	58.0	ok
8-13-20	JJ	58.0	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
8-14-20	JJ	57.9	ok
8-15-20	DS	57.6	ok
8-16-20	DS	57.4	ok
8-17-20	JJ	57.4	ok
8-18-20	JJ	57.2	ok
8-19-20	JJ	57.3	ok
8-20-20	JJ	57.3	ok
8-21-20	JJ	57.1	ok
8-22-20	JJ	56.9	ok
8-23-20	JJ	56.9	ok
8-24-20	JJ	56.9	ok
8-25-20	CJ	56.9	ok
8-26-20	JJ	56.9	ok
8-27-20	KS	56.9	ok
8-28-20	JJ	57.0	ok
8-29-20	KS	58.9	ok Changed Buffers & Storage
8-30-20	KS	59.0	ok
8-31-20	JJ	58.8	ok
9-1-20	JJ	58.9	ok
9-2-20	JJ	58.8	ok
9-3-20	JJ	58.8	ok
9-4-20	JJ	58.7	ok
9-5-20	DS	58.9	ok
9-6-20	DS	58.8	ok
9-7-20	DS	58.7	ok
9-8-20	JJ	58.5	ok
9-9-20	JJ	58.7	ok
9-10-20	JJ	58.6	ok
9-11-20	KS	58.6	ok
9-12-20	KS	58.5	ok
9-13-20	KS	58.6	ok
9-14-20	JJ	58.5	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
9-15-20	JJ	58.4	ok
9-16-20	DS	58.2	ok
9-17-20	JJ	57.8	ok
9-18-20	KS	58.1	OK
9-19-20	CJ	57.9	OK
9-20-20	CJ	57.9	OK
9-21-20	JJ	58.3	ok
9-22-20	JJ	58.0	ok
9-23-20	DS	58 2	ok
9-24-20	DS	58.0	OK
9-25-20	DS	58.0	ok
9-26-20	CJ	57.4	OK
9-27-20	CJ	57.4	OK
9-28-20	JJ	58.0	ok
9-29-20	JJ	57.6	ok
9-30-20	JJ	57.5	ok
10-1-20	JJ	57.6	ok
10-2-20	DS	57.5	ok
10-3-20	CJ	57.5	OK
10-4-20	CJ	57.5	ok
10-5-20	JJ	57.5	ok
10-6-20	JJ	57.6	ok
10-7-20	JJ	57.6	ok
10-8-20	JJ	57.5	ok
10-9-20	JJ	57.5	ok
10-10-20	JJ	57.3	ok
10-11-20	DS	57.5	OK
10-12-20	JJ	57.2	ok
10-13-20	JJ	57.2	ok
10-14-20	JJ	57.0	ok
10-15-20	JJ	57.2	ok
10-16-20	JJ	57.0	ok
10-17-20	KS	57.1	OK
10-18-20	JJ	57.1	ok
10-19-20	JJ	57.1	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
10-20-20	JJ	56.6	ok
10-21-20	JJ	56.9	ok
10-22-20	JJ	57.1	ok
10-23-20	JJ	57.0	ok
10-24-20	KS	56.9	ok
10-25-20	KS	56.9	OK
10-26-20	JJ	56.9	ok Changed Buffers + storage
10-27-20	JJ	59.3	ok
10-28-20	JJ	59.3	ok
10-29-20	JJ	59.2	ok
10-30-20	JJ	59.2	ok
10-31-20	CJ	59.0	ok
11-1-20	CJ	59.0	ok
11-2-20	JJ	59.0	ok
11-3-20	JJ	59.2	ok
11-4-20	JJ	58.7	ok
11-5-20	JJ	58.8	ok
11-6-20	JJ	58.7	ok
11-7-20	DS	58.7	ok
11-8-20	DS	58.9	ok
11-9-20	JJ	58.6	ok
11-10-20	JJ	58.8	ok
11-11-20	DS	58.7	OK
11-12-20	JJ	58.8	ok
11-13-20	JJ	58.6	ok
11-14-20	JJ	58.2	ok
11-15-20	JJ	58.3	ok
11-16-20	JJ	58.1	ok
11-17-20	JJ	58.1	ok
11-18-20	JJ	58.0	ok
11-19-20	JJ	58.2	ok
11-20-20	JJ	58.3	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
11-21-20	JJ	58.2	ok
11-22-20	JJ	58.3	ok
11-23-20	JJ	58.1	ok
11-24-20	JJ	58.1	ok
11-25-20	DS	57.9	OK
11-26-20	JJ	57.7	ok
11-27-20	JJ	57.9	ok
11-28-20	JJ	57.9	ok
11-29-20	JJ	57.8	ok
11-30-20	JJ	57.9	ok
12-1-20	JJ	57.6	ok
12-2-20	KS	57.5	Ok
12-3-20	JJ	57.6	ok
12-4-20	JJ	57.5	ok
12-5-20	KS	57.3	ok
12-6-20	KS	57.2	Ok
12-7-20	JJ	57.3	ok
12-8-20	JJ	57.1	ok
12-9-20	JJ	56.9	ok
12-10-20	JJ	57.0	ok Changed Buffers + storage
12-11-20	JJ	59.6	ok
12-12-20	CJ	59.3	ok
12-13-20	CJ	59.3	ok
12-14-20	JJ	59.5	ok
12-15-20	JJ	59.3	ok
12-16-20	JJ	59.2	ok
12-17-20	JJ	59.1	ok
12-18-20	JJ	59.2	OK
12-19-20	DS	59.2	ok
12-20-20	DS	58.8	ok
12-21-20	JJ	58.7	ok
12-22-20	JJ	58.9	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
12-23-20	JJ	58.9	ok
12-24-20	DS	59.0	ok
12-25-20	DS	59.0	ok
12-26-20	CJ	58.4	ok
12-27-20	CJ	57.3	ok
12-28-20	JJ	58.8	ok
12-29-20	JJ	58.8	ok
12-30-20	JJ	58.6	ok
12-31-20	JJ	58.5	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
1-1-20	DS	4°	ok
1-2-20	KS	4°	ok
1-3-20	DS	4°	ok
1-4-20	DS	4°	ok
1-5-20	DS	4°	ok
1-6-2020	CJ	3°	ok
1-7-20	KS	3°	Ok
1-8-2020	CJ	3°	ok
1-9-2020	CJ	3°	ok
1-10-20	KS	4°	Ok
1-11-2020	KS	4°	Ok
1-12-20	KS	4°	Ok
1-13-20	DS	4°	ok
1-14-2020	CJ	4°	ok
1-15-2020	DS	4°	ok
1-16-2020	DS	4°	ok
1-17-20	DS	4°	ok
1-18-2020	CJ	4°	ok
1-19-2020	CJ	3°	ok
1-20-2020	CJ	3°	ok
1-21-2020	JJ	4°	ok
1-22-2020	JJ	4°	ok
1-23-2020	JJ	4°	ok
1-24-2020	JJ	3°	ok
1-25-20	KS	4°	Ok
1-26-20	KS	4°	Ok
1-27-2020	JJ	4°	ok
1-28-2020	JJ	4°	ok
1-29-20	DS	4°	ok
1-30-20	JJ	3°	ok
1-31-20	JJ	4°	ok
2-1-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
2-2-20	JJ	4°	ok
2-3-20	JJ	3°	ok
2-4-20	JJ	3°	ok
2-5-20	DS	4°	ok
2-6-20	JJ	4°	ok
2-7-20	JJ	3°	ok
2-8-20	CJ	3°	ok
2-9-20	CJ	3°	ok
2-10-20	JJ	3°	ok
2-11-20	JJ	3°	ok
2-12-20	JJ	3°	ok
2-13-20	JJ	3°	ok
2-14-20	JJ	3°	ok
2-15-20	KS	3°	OK
2-16-20	KS	4°	OK
2-17-20	KS	4°	OK
2-19-20	JJ	4°	ok
2-19-20	JJ	4°	ok
2-20-20	JJ	4°	ok
2-21-20	JJ	4°	ok
2-22-20	DS	4°	ok
2-23-20	DS	4°	ok
2-24-20	JJ	4°	ok
2-25-20	JJ	4°	ok
2-26-20	CJ	4°	ok
2-27-20	JJ	4°	ok
2-28-20	JJ	4°	ok
2-29-20	CJ	3°	ok
3-1-20	CJ	3°	ok
3-2-20	JJ	3°	ok
3-3-20	JJ	3°	ok
3-4-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
3-5-20	JJ	4°	ok
3-6-20	JJ	4°	ok
3-7-20	JJ	4°	ok
3-8-20	JJ	3°	ok
3-9-20	JJ	3°	ok
3-10-20	JJ	4°	ok
3-11-20	JJ	4°	ok
3-12-20	JJ	4°	ok
3-13-20	JJ	3°	ok
3-16-20	JJ	3°	ok
3-17-20	JJ	4°	ok
3-18-20	JJ	4°	ok
3-19-20	JJ	3°	ok
3-20-20	JJ	4°	ok
3-21-20	JJ	3°	ok
3-22-20	CJ	3°	ok
3-23-20	JJ	4°	ok
3-24-20	JJ	4°	ok
3-25-20	DS	4°	ok
3-26-20	JJ	3°	ok
3-27-20	DS	4°	ok
3-28-20	JJ	4°	ok
3-29-20	JJ	4°	ok
3-30-20	DS	4°	ok
3-31-20	DS	4°	ok
4-1-20	DS	4°	ok
4-2-20	DS	4°	ok
4-3-20	DS	4°	ok
4-4-20	KS	3°	ok
4-5-20	KS	4°	ok
4-6-20	DS	4°	ok
4-7-20	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
4-8-20	DS	4°	ok
4-9-20	DS	4°	ok
4-10-20	DS	4°	ok
4-11-20	CJ	4°	ok
4-12-20	CJ	4°	ok
4-13-20	DS	4°	ok
4-14-20	DS	4°	ok
4-15-20	DS	4°	ok
4-16-20	DS	4°	ok
4-17-20	DS	4°	ok
4-18-20	JJ	4°	ok
4-19-20	JJ	4°	ok
4-20-20	DS	4°	ok
4-21-20	DS	4°	ok
4-22-20	DS	4°	ok
4-23-20	DS	4°	ok
4-24-20	DS	4°	ok
4-25-20	CJ	4°	ok
4-26-20	CJ	4°	ok
4-27-20	DS	4°	ok
4-28-20	DS	4°	ok
4-29-20	DS	4°	ok
4-30-20	DS	4°	ok
5-1-20	DS	4°	ok
5-2-20	JJ	4°	ok
5-3-20	KS	4°	ok
5-4-20	DS	4°	ok
5-5-20	DS	4°	ok
5-6-20	DS	4°	ok
5-7-20	DS	4°	ok
5-8-20	DS	4°	ok
5-9-20	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
5-10-20	DS	4°	ok
5-11-20	DS	4°	ok
5-12-20	DS	4°	ok
5-13-20	DS	4°	ok
5-14-20	JJ	4°	ok
5-15-20	DS	4°	ok
5-16-20	KS	5°	OK Adjusted down
5-17-20	KS	4°	OK
5-18-20	DS	4°	ok
5-19-20	DS	4°	ok
5-20-20	DS	4°	ok
5-21-20	DS	4°	ok
5-22-20	DS	4°	ok
5-23-20	CJ	4°	ok
5-24-20	CJ	4°	ok
5-25-20	CJ	4°	ok
5-26-20	DS	4°	ok
5-27-20	JJ	4°	ok
5-28-20	DS	4°	ok
5-29-20	DS	4°	ok
5-30-20	JJ	4°	ok
5-31-20	JJ	4°	ok
6-1-20	DS	4°	ok
6-2-20	JJ	4°	ok
6-3-20	DS	4°	ok
6-4-20	DS	4°	ok
6-5-20	DS	4°	ok
6-6-20	JJ	4°	ok
6-7-20	JJ	4°	ok
6-8-20	DS	4°	ok
6-9-20	CJ	4°	ok
6-10-20	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
6-11-20	DS	4°	ok
6-12-20	JJ	4°	OK
6-13-20	CJ	4°	OK
6-14-20	CJ	4°	ok
6-15-20	DS	4°	Ok
6-16-20	DS	4°	ok
6-17-20	DS	4°	ok
6-18-20	DS	4°	ok
6-19-20	DS	4°	ok
6-20-20	DS	4°	ok
6-21-20	DS	4°	ok
6-22-20	DS	4°	ok
6-23-20	DS	4°	ok
6-24-20	DS	4°	ok
6-25-20	DS	4°	ok
6-26-20	JJ	4°	OK
6-27-20	KS	4°	ok
6-28-20	KS	4°	ok
6-29-20	DS	4°	ok
6-30-20	DS	4°	OK
7-1-20	DS	4°	ok
7-2-20	JJ	4°	OK
7-3-20	KS	4°	ok
7-4-20	KS	4°	ok
7-5-20	KS	4°	ok
7-6-20	JJ	4°	ok
7-7-20	JJ	4°	ok
7-8-20	JJ	4°	ok
7-9-20	JJ	4°	ok
7-10-20	JJ	4°	OK
7-11-20	JJ	4°	ok
7-12-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
7-13-20	JJ	4°	OK
7-14-20	JJ	5°	ok
7-15-20	JJ	4°	ok
7-16-20	JJ	5°	ok
7-17-20	JJ	5°	ok
7-18-20	JJ	5°	ok
7-19-20	JJ	4°	ok
7-20-20	JJ	4°	ok
7-21-20	DS	4°	ok
7-22-20	JJ	40	ok
7-23-20	JJ	40	ok
7-24-20	JJ	40	ok
7-25-20	CJ	4°	ok
7-26-20	CJ	4°	ok
7-27-20	JJ	4°	ok
7-28-20	JJ	40	ok
7-29-20	CJ	4°	ok
7-30-20	JJ	4°	ok
7-31-20	JJ	4°	ok
8-1-20	KS	4°	ok
8-2-20	KS	4°	ok
8-3-20	JJ	4°	ok
8-4-20	JJ	40	ok
8-5-20	JJ	40	ok
8-6-20	JJ	40	ok
8-7-20	JJ	4°	ok
8-8-20	JJ	4°	ok
8-9-20	JJ	4°	ok
8-10-20	JJ	4°	ok
8-11-20	JJ	4°	ok
8-12-20	JJ	4°	ok
8-13-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
8-14-20	JJ	4°	ok
8-15-20	DS	4°	ok
8-16-20	DS	4°	ok
8-17-20	JJ	4°	ok
8-18-20	JJ	4°	ok
8-19-20	JJ	4°	ok
8-20-20	JJ	4°	ok
8-21-20	JJ	5°	ok
8-22-20	JJ	5°	ok
8-23-20	JJ	4°	ok
8-24-20	JJ	4°	ok
8-25-20	CJ	4°	ok
8-26-20	JJ	4°	ok
8-27-20	KS	4°	ok
8-28-20	JJ	5°	ok
8-29-20	KS	4°	ok
8-30-20	KS	4°	ok
8-31-20	JJ	4°	ok
9-1-20	JJ	4°	ok
9-2-20	JJ	4°	ok
9-3-20	JJ	4°	ok
9-4-20	JJ	4°	ok
9-5-20	DS	4°	ok
9-6-20	DS	4°	ok
9-7-20	DS	4°	ok
9-8-20	JJ	4°	ok
9-9-20	JJ	4°	ok
9-10-20	JJ	4°	ok
9-11-20	KS	4°	ok
9-12-20	KS	4°	ok
9-13-20	KS	4°	ok
9-14-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
9-15-20	JJ	4°	ok
9-16-20	DS	4°	ok
9-17-20	JJ	5°	ok
9-18-20	KS	5°	ok Adjusted
9-19-20	CJ	5°	ok
9-20-20	CJ	5°	ok
9-21-20	JJ	4°	ok
9-22-20	JJ	4°	ok
9-23-20	DS	4°	ok
9-24-20	DS	4°	ok
9-25-20	DS	4°	ok
9-26-20	CJ	5°	ok
9-27-20	CJ	5°	ok
9-28-20	JJ	5°	ok
9-29-20	JJ	5°	ok
9-30-20	JJ	4°	ok
10-1-20	JJ	4°	ok
10-2-20	DS	4°	ok
10-3-20	CJ	4°	ok
10-4-20	CJ	4°	ok
10-5-20	JJ	4°	ok
10-6-20	JJ	4°	ok
10-7-20	JJ	4°	ok
10-8-20	JJ	4°	ok
10-9-20	JJ	4°	ok
10-10-20	JJ	4°	ok
10-11-20	DS	4°	ok
10-12-20	JJ	4°	ok
10-13-20	JJ	4°	ok
10-14-20	JJ	4°	ok
10-15-20	JJ	4°	ok
10-16-20	JJ	4°	ok
10-17-20	KS	4°	ok
10-18-20	JJ	4°	ok
10-19-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
10-20-20	JJ	4°	ok
10-21-20	JJ	3°	ok
10-22-20	JJ	4°	ok
10-23-20	JJ	3°	ok
10-24-20	KS	4°	OK
10-25-20	KS	4°	OK
10-26-20	JJ	4°	ok
10-27-20	JJ	4°	ok
10-28-20	JJ	4°	ok
10-29-20	JJ	4°	ok
10-30-20	JJ	4°	ok
10-31-20	CJ	3°	ok
11-1-20	CJ	3°	ok
11-2-20	JJ	4°	ok
11-3-20	JJ	4°	ok
11-4-20	JJ	4°	ok
11-5-20	JJ	4°	ok
11-6-20	JJ	4°	ok
11-7-20	DS	4°	ok
11-8-20	DS	4°	ok
11-9-20	JJ	4°	ok
11-10-20	JJ	4°	ok
11-11-20	DS	4°	ok
11-12-20	JJ	4°	ok
11-13-20	JJ	4°	ok
11-14-20	JJ	4°	ok
11-15-20	JJ	4°	ok
11-16-20	JJ	4°	ok
11-17-20	JJ	4°	ok
11-18-20	JJ	4°	ok
11-19-20	JJ	4°	ok
11-20-20	JJ	3°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
11-21-20	JJ	3°	ok
11-22-20	JJ	4°	ok
11-23-20	JJ	3°	ok
11-24-20	JJ	3°	ok
11-25-20	DS	4°	ok
11-26-20	JJ	4°	ok
11-27-20	JJ	3°	ok
11-28-20	JJ	4°	ok
11-29-20	JJ	3°	ok
11-30-20	JJ	3°	ok
12-1-20	JJ	4°	ok
12-2-20	KS	2°	ok
12-3-20	JJ	3°	ok
12-4-20	JJ	4°	ok
12-5-20	KS	3°	ok
12-6-20	KS	4°	ok
12-7-20	JJ	4°	ok
12-8-20	JJ	4°	ok
12-9-20	JJ	4°	ok
12-10-20	JJ	4°	ok
12-11-20	JJ	4°	ok
12-12-20	CJ	4°	ok
12-13-20	CJ	4°	ok
12-14-20	JJ	4°	ok
12-15-20	JJ	4°	ok
12-16-20	JJ	4°	ok
12-17-20	JJ	4°	ok
12-18-20	JJ	3°	ok
12-19-20	DS	4°	ok
12-20-20	DS	4°	ok
12-21-20	JJ	4°	ok
12-22-20	JJ	3°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
12-23-20	JJ	3°	ok
12-24-20	DS	3°	ok
12-25-20	DS	4°	ok
12-26-20	CJ	4°	ok
12-27-20	CJ	4°	ok
12-28-20	JJ	4°	ok
12-29-20	JJ	3°	ok
12-30-20	JJ	4°	ok
12-31-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Micro/2000 Chlorine Analyzer
Calibration Log

Calibration to be conducted bi-weekly unless weekly is warranted

Date	Calibrated by	Remarks
1-2-20	KS	2pt cal w/0.00 cw Res & 2.1mg/L Res. Topped of Buffers.
1-9-20	CJ	TOPPED OF BUFFERS, ADDED SAND, INSPECTED TUBING & PUMP
1-16-20	DS	INSPECTED
1-23-20	DS/JJ	INSPECTED, CAL W/0.00+3.40 STANDARDS, MADE NEW KI SOLUTION
1-30-20	JJ/DS	Inspected
2-6-20	JJ/DS	Inspected /Cal
2-13-20	JJ	Inspected
2-20-20	JJ	Inspected, cal w/0.00 + 3.00 mg/L
2-27-20	JJ	Inspected
3-3-20	JJ	Inspected cal w/0.00+3.70 mg/L, Made New KI
3-12-20	JJ	Inspected
3-19-20	JJ	Inspected, cal w/0.00+2.60 mg/L
3-26-20	DS	INSPECTED
4-2-20	DS	INSPECTION AND CAL
4-9-20	DS	INSPECTION
4-16-20	DS	INSPECTION, CAL, NEW KI/ACETATE BUFFER SOLUTIONS
4-23-20	DS	INSPECTION
4-30-20	DS	INSPECTION/CAL
5-7-20	DS	INSPECTION
5-14-20	JJ	Inspeted, cal w/0.00+5.00 mg/L, made New KI
5-21-20	DS	INSPECTED
5-28-20	DS	INSPECTED, CAL W/3.3 mg/L
6-4-20	DS	INSPECTED
6-11-20	DS	INSPECT, CAL, REPLACE HOSES IN PUMP & INTAKE
6-18-20	DS	INSPECT, MAKE NEW KI
6-25-20	DS	INSPECT/CAL
7-2-20	JJ	Inspected
7-9-20	JJ	Inspect /cal w/3.3 mg/L
7-16-20	JJ	Inspect- made New KI
7-22-20	JJ	Inspected /cal w/3.8 mg/L

McKinleyville Community Services District
Wastewater Management Facility
Micro/2000 Chlorine Analyzer
Calibration Log

Calibration to be conducted bi-weekly unless weekly is warranted

Date	Calibrated by	Remarks
7-30-20	JS	Inspected
8-6-20	JS	Inspected / cal w/ 4.9 mg/L
8-13-20	JS	Inspected made new KI
8-20-20	JS	Inspected / cal w/ 3.9 mg/L
9-23-20	DS	INSPECTION, CAL W/ 2.8mg/L
10-1-20	JS	Inspected / made New KI
10-8-20	JS	Inspected / CAL w/ 2.6 mg/L
10-15-20	JS	Inspected
10-22-20	JS	Inspected / CAL w/ 4.5 mg/L
10-29-20	JS	Inspected / made New KI
11-4-20	JS	Inspected / cal w/ 3.1 mg/L
11-12-20	JS	Inspected / New Buffer
11-19-20	JS	Inspected / cal w/ 4.9 mg/L
12-3-20	JS	Inspected / cal w/ 3.6 mg/L
12-10-20	JS	Inspected, New KI / Buffer
12-16-20	JS	Inspected / cal w/ 3.4 mg/L

McKinleyville Community Services District
Wastewater Management Facility
Hach SensION+ MM156/5049 Multi-Sensor
Conductivity Calibration Log

Calibrate before each use

Date	Calibrated by	Remarks
1-2-19	DS	ok
2-4-19	DS	OK
3-4-19	DS	OK
4-1-19	DS	Ok
5-6-19	DS	ok
6-3-19	DS	ok
7-2-19	DS	OK
8-1-19	DS	ok
9-3-19	DS	OK
10-1-19	DS	OK
11-1-19	DS	OK
12-2-19	DS	ok
1-2-20	DS	OK
2-3-20	DS	ok
3-2-20	DS	OK
4-2-20	DS	OK
5-4-20	DS	OK
6-1-20	DS	OK
7-1-20	DS	ok
8-3-20	DS	ok
9-1-20	DS	ok
10-1-20	DS	ok
11-2-20	DS	ok
12-1-20	DS	ok
1-4-21	DS	Ok
2-1-21		ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
1-1-20	DS	ok
1-2-20	KS	OK
1-3-20	DS	ok
1-4-20	DS	OK
1-5-20	DS	ok
1-6-2020	CJ	OK
1-7-20	KS	OK
1-8-2020	CJ	OK
1-9-2020	CJ	OK
1-10-20	KS	OK
1-11-2020	KS	OK
1-12-20	KS	OK
1-13-20	DS	ok
1-14-2020	CJ	OK
1-15-2020	DS	OK
1-16-2020	DS	ok
1-17-2020	DS	OK
1-18-2020	CJ	ok
1-19-2020	CJ	OK
1-20-2020	CJ	OK
1-21-2020	JJ	OK
1-22-2020	JJ	OK
1-23-2020	JJ	OK
1-24-2020	JJ	ok
1-25-20	KS	OK
1-26-20	KS	OK
1-27-2020	JJ	OK
1-28-2020	JJ	OK
1-29-20	DS	OK
1-30-20	JJ	OK
1-31-20	JJ	OK
2-1-20	JJ	OK
2-2-20	JJ	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
2-3-20	JJ	ok
2-4-20	JJ	ok
2-5-20	DS	ok
2-6-20	JJ	ok
2-7-20	JJ	ok
2-8-20	CJ	ok
2-9-20	CJ	ok
2-10-20	JJ	ok
2-11-20	JJ	ok
2-12-20	JJ	ok
2-13-20	JJ	ok
2-14-20	JJ	ok
2-15-20	KS	OK
2-16-20	KS	OK
2-17-20	KS	OK
2-18-20	JJ	ok
2-19-20	JJ	ok
2-20-20	JJ	ok
2-21-20	JJ	ok
2-22-20	DS	ok
2-23-20	DS	ok
2-24-20	JJ	ok
2-25-20	JJ	ok
2-26-20	CJ	ok
2-27-20	JJ	ok
2-28-20	JJ	ok
2-29-20	CJ	ok
3-1-20	CJ	ok
3-2-20	JJ	ok
3-3-20	JJ	ok
3-4-20	JJ	ok
3-5-20	JJ	ok
3-6-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
3-7-20	JJ	OK
3-8-20	JJ	ok
3-9-20	JJ	OK
3-10-20	JJ	ok
3-11-20	JJ	OK
3-12-20	JJ	ok
3-13-20	JJ	OK
3-16-20	JJ	ok
3-17-20	JJ	ok
3-18-20	JJ	OK
3-19-20	JJ	OK
3-20-20	JJ	ok
3-21-20	AJ	ok
3-22-20	CJ	OK
3-23-20	JJ	ok
3-24-20	JJ	ok
3-25-20	DS	OK
3-26-20	JJ	OK
3-27-20	DS	OK
3-28-20	JJ	ok
3-29-20	JJ	OK
3-30-20	DS	OK
3-31-20	DS	OK
4-1-20	DS	OK
4-2-20	DS	OK
4-3-20	DS	OK
4-4-20	KS	OK
4-5-20	KS	OK
4-6-20	DS	OK
4-7-20	DS	OK
4-8-20	DS	OK
4-9-20	DS	OK
4-10-20	DS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
4-11-20	CJ	OK
4-12-20	CJ	OK
4-13-20	DS	OK
4-14-20	DS	Ok
4-15-20	DS	OK
4-16-20	DS	Ok
4-17-20	DS	Ok
4-18-20	JS	OK
4-19-20	JS	OK
4-20-20	DS	OK
4-21-20	DS	OK
4-22-20	DS	OK
4-23-20	DS	Ok
4-24-20	DS	OK
4-25-20	CJ	OK
4-26-20	CJ	OK
4-27-20	DS	Ok
4-28-20	DS	OK
4-29-20	DS	Ok
4-30-20	DS	OK CHANGED BUFFER SOLUTIONS
5-1-20	DS	OK
5-2-20	JS	OK
5-3-20	KS	OK
5-4-20	DS	OK
5-5-20	DS	OK
5-6-20	DS	OK
5-7-20	DS	Ok
5-8-20	DS	OK
5-9-20	DS	OK
5-10-20	DS	OK
5-11-20	DS	OK
5-12-20	DS	OK
5-13-20	DS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
5-14-20	JJ	ok
5-15-20	DS	ok
5-16-20	KS	OK
5-17-20	KS	Ok
5-18-20	DS	ok
5-19-20	DS	ok
5-20-20	DS	ok
5-21-20	DS	ok
5-22-20	DS	ok
5-23-20	CJ	OK
5-24-20	CJ	OK
5-25-20	CJ	ok
5-26-20	DS	ok
5-27-20	JJ	ok
5-28-20	DS	ok
5-29-20	DS	ok
5-30-20	JJ	ok
5-31-20	JJ	Ok
6-1-20	DS	ok
6-2-20	JJ	ok
6-3-20	CJ	ok
6-4-20	DS	ok
6-5-20	DS	ok
6-6-20	JJ	ok
6-7-20	JJ	ok
6-8-20	DS	ok
6-9-20	CJ	ok
6-10-20	DS	ok
6-11-20	DS	OK
6-12-20	JJ	ok
6-13-20	CJ	ok
6-14-20	CJ	ok
6-15-20	DS	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
6/16/20	DS	ok
6-17-20	DS	Ok
6-18-20	DS	ok
6-19-20	DS	ok
6-20-20	DS	ok
6-21-20	DS	ok
6-22-20	DS	ok
6-23-20	DS	ok
6-24-20	DS	ok
6-25-20	DS	ok
6-26-20	JJ	ok
6-27-20	KS	*Cleaned* ok *Changed prob solution*
6-28-20	KS	ok
6-29-20	DS	ok
6-30-20	DS	ok
7-1-20	DS	ok
7-2-20	JJ	ok
7-3-20	KS	ok
7-4-20	KS	ok
7-5-20	KS	ok
7-6-20	JJ	ok
7-7-20	JJ	ok
7-8-20	JJ	ok
7-9-20	JJ	ok
7-10-20	JJ	ok
7-11-20	JJ	ok
7-12-20	JJ	ok
7-13-20	JJ	ok
7-14-20	JJ	ok
7-15-20	JJ	ok
7-16-20	JJ	ok
7-17-20	JJ	ok
7-18-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
7-19-20	JJ	ok
7-20-20	JJ	ok
7-21-20	DS	ok
7-22-20	JJ	ok
7-23-20	JJ	ok
7-24-20	JJ	ok
7-25-20	CJ	ok
7-26-20	CJ	ok
7-27-20	JJ	ok
7-28-20	JJ	ok
7-29-20	CJ	ok
7-30-20	JJ	ok
7-31-20	JJ	ok
8-1-20	KS	ok
8-2-20	KS	ok
8-3-20	JJ	ok
8-4-20	JJ	ok
8-5-20	JJ	ok
8-6-20	JJ	ok
8-7-20	JJ	ok
8-8-20	JJ	ok
8-9-20	JJ	ok
8-10-20	JJ	ok
8-11-20	JJ	ok
8-12-20	JJ	ok
8-13-20	JJ	ok New DO Probe
8-14-20	JJ	ok
8-15-20	DS	ok
8-16-20	DS	ok
8-17-20	JJ	ok
8-18-20	JJ	ok
8-19-20	JJ	ok
8-20-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
8-21-20	JJ	ok
8-22-20	JJ	ok
8-23-20	JJ	ok
8-24-20	JJ	ok
8-25-20	CJ	ok
8-26-20	JJ	ok
8-27-20	KS	ok
8-28-20	JJ	ok
8-29-20	KS	ok
8-30-20	KS	ok
8-31-20	JJ	ok
9-1-20	JJ	ok
9-2-20	JJ	ok
9-3-20	JJ	ok
9-4-20	JJ	ok
9-5-20	DS	ok
9-6-20	DS	ok
9-7-20	DS	ok
9-8-20	JJ	ok
9-9-20	JJ	ok
9-10-20	JJ	ok
9-11-20	KS	ok
9-12-20	KS	ok
9-13-20	KS	ok
9-14-20	JJ	ok
9-15-20	JJ	ok
9-16-20	DS	ok
9-17-20	JJ	ok
9-18-20	KS	ok
9-19-20	CJ	ok
9-20-20	CJ	ok
9-21-20	JJ	ok
9-22-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
9-23-20	DS	OK
9-24-20	DS	OK
9-25-20	DS	OK
9-26-20	CJ	OK
9-27-20	CJ	OK
9-28-20	JJ	ok
9-29-20	JJ	ok
9-30-20	JJ	ok
10-1-20	JJ	ok
10-2-20	DS	OK
10-3-20	CJ	OK
10-4-20	CJ	OK
10-5-20	JJ	ok
10-6-20	JJ	ok
10-7-20	JJ	ok
10-8-20	JJ	ok
10-9-20	JJ	ok
10-10-20	JJ	ok
10-11-20	DS	OK
10-12-20	JJ	ok
10-13-20	JJ	ok
10-14-20	JJ	ok
10-15-20	JJ	ok
10-16-20	JJ	ok
10-17-20	KS	OK
10-18-20	JJ	ok
10-19-20	JJ	ok
10-20-20	JJ	ok
10-21-20	JJ	ok
10-22-20	JJ	ok
10-23-20	JJ	ok
10-24-20	KS	OK
10-25-20	KS	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
10-26-20	JJ	ok
10-27-20	JJ	ok
10-28-20	JJ	ok
10-29-20	JJ	ok
10-30-20	JJ	ok
10-31-20	CJ	ok
11-1-20	CJ	ok
11-2-20	JJ	ok
11-3-20	JJ	ok
11-4-20	JJ	ok
11-5-20	JJ	ok
11-6-20	JJ	ok
11-7-20	DS	OK
11-8-20	DS	OK
11-9-20	JJ	ok
11-10-20	JJ	ok
11-11-20	DS	OK
11-12-20	JJ	ok
11-13-20	JJ	ok
11-14-20	JJ	ok
11-15-20	JJ	ok
11-16-20	JJ	ok
11-17-20	JJ	ok
11-18-20	JJ	ok
11-19-20	JJ	ok
11-20-20	JJ	ok
11-21-20	JJ	ok
11-22-20	JJ	ok
11-23-20	JJ	ok
11-24-20	JJ	ok
11-25-20	DS	OK
11-26-20	JJ	ok
11-27-20	JJ	ok

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
11-28-20	JJ	OK
11-29-20	JJ	ok
11-30-20	JJ	OK
12-1-20	JJ	ok
12-2-20	KS	OK
12-3-20	JJ	ok
12-4-20	JJ	OK
12-5-20	KS	OK
12-6-20	KS	OK
12-7-20	JJ	OK
12-8-20	JJ	ok
12-9-20	JJ	ok
12-10-20	JJ	ok
12-11-20	JJ	ok
12-12-20	CJ	ok
12-13-20	CJ	OK
12-14-20	JJ	ok
12-15-20	JJ	ok
12-16-20	JJ	ok
12-17-20	JJ	ok
12-18-20	JJ	OK
12-19-20	DS	OK
12-20-20	DS	OK
12-21-20	JJ	OK
12-22-20	JJ	ok
12-23-20	JJ	ok
12-24-20	DS	OK
12-25-20	DS	OK
12-26-20	CJ	ok
12-27-20	CJ	ok
12-28-20	JJ	ok
12-29-20	JJ	ok
12-30-20	JJ	OK

McKinleyville Community Services District
Wastewater Management Facility
DO Meter (Hach sensION378 / Probe 51970-88)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Remarks
12-31-20	JJ	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
1-1-20	DS	58.9	ok
1-2-20	RS	58.8	OK
1-3-20	DS	58.7	ok
1-4-20	DS	58.8	OK
1-5-20	DS	58.7	ok
1-6-2020	CJ	57.1	ok
1-7-20	KS	58.6	OK
1-8-2020	CJ	58.2	ok
1-9-2020	CJ	56.9	ok
1-10-20	KS	57.6	Ok
1-11-2020	KS	59.1	OK
1-12-20	KS	59.2	Ok
1-13-20	DS	58.5	ok
1-14-2020	CJ	59.0	ok
1-15-2020	DS	58.6	ok
1-16-2020	DS	59.1	ok
1-17-2020	DS	58.4	ok
1-18-2020	CJ	58.7	OK
1-19-2020	CJ	58.8	ok
1-20-2020	CJ	58.6	OK
1-21-2020	JJ	58.2	OK
1-22-2020	JJ	58.2	ok
1-23-2020	JJ	58.1	OK
1-24-2020	JJ	58.2	OK
1-25-20	KS	58.0	Ok
1-26-20	KS	57.9	Cleaned Probe OK Changed PH Buffers
1-27-2020	JJ	60.0	ok
1-28-2020	JJ	59.0	OK
1-29-20	DS	59.0	OK
1-30-20	JJ	59.0	ok
1-31-20	JJ	58.3	ok
2-1-20	JJ	58.8	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
2-2-20	JJ	59.0	ok
2-3-20	JJ	59.0	ok
2-4-20	JJ	59.0	ok
2-5-20	DS	58.9	ok
2-6-20	JJ	58.7	ok
2-7-20	JJ	58.7	ok
2-8-20	CJ	58.5	ok
2-9-20	CJ	58.5	ok
2-10-20	JJ	58.6	ok
2-11-20	JJ	58.4	ok
2-12-20	JJ	58.4	ok
2-13-20	JJ	58.3	ok
2-14-20	JJ	58.2	ok
2-15-20	KS	58.2	ok
2-16-20	KS	58.0	ok
2-17-20	KS	58.0	ok
2-18-20	JJ	58.1	ok
2-19-20	JJ	57.8	ok
2-20-20	JJ	57.8	ok
2-21-20	JJ	57.8	ok
2-22-20	DS	57.7	ok
2-23-20	DS	57.6	ok
2-24-20	JJ	57.6	ok
2-25-20	JJ	57.5	ok
2-26-20	CJ	57.2	ok
2-26-20	JJ	57.3	ok
2-27-20	JJ	57.3	ok
2-29-20	CJ	57.2	ok
3-1-20	CJ	55.9	ok
3-2-20	JJ	57.3	ok
3-3-20	JJ	57.1	ok
3-4-20	JJ	57.1	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
3-5-20	JJ	56.9	ok
3-6-20	JJ	56.9	ok
3-7-20	JJ	56.6	ok
3-8-20	JJ	56.9	ok
3-9-20	JJ	56.7	ok Changed PH Buffers & Storage Solution
3-10-20	JJ	59.2	ok
3-11-20	JJ	59.1	ok
3-12-20	JJ	58.9	ok
3-13-20	JJ	59.0	ok
3-16-20	JJ	59.0	ok
3-17-20	JJ	58.8	ok
3-18-20	JJ	58.9	ok
3-19-20	JJ	58.8	ok
3-20-20	JJ	58.8	ok
3-21-20	CJ	58.5	ok
3-22-20	CJ	58.3	ok
3-23-20	JJ	58.5	ok
3-24-20	JJ	58.5	ok
3-25-20	DS	58.6	ok
3-26-20	JJ	58.6	ok
3-27-20	DS	58.4	ok
3-28-20	JJ	58.4	ok
3-29-20	JJ	58.3	ok
3-30-20	DS	58.3	ok
3-31-20	DS	58.2	ok
4-1-20	DS	58.3	ok
4-2-20	DS	58.3	ok
4-3-20	DS	58.2	ok
4-4-20	KS	58.1	ok
4-5-20	KS	58.1	ok
4-6-20	DS	58.2	ok
4-7-20	DS	58.0	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
4-8-20	DS	57.9	OK
4-9-20	DS	57.8	ok
4-10-20	DS	59.3	OK - CHANGED BUFFER SOLUTIONS, CLEAN PROBE
4-11-20	CJ	59.3	Ok
4-12-20	CJ	59.3	OK
4-13-20	DS	59.5	OK
4-14-20	DS	59.4	Ok
4-15-20	DS	59.3	ok
4-16-20	DS	59.2	ok
4-17-20	DS	59.2	ok
4-18-20	JJ	58.9	Ok
4-19-20	JJ	59.1	ok
4-20-20	DS	59.1	Ok
4-21-20	DS	58.7	ok
4-22-20	DS	59.0	ok
4-23-20	DS	58.7	ok
4-24-20	DS	58.7	Ok
4-25-20	CJ	57.6	Ok
4-26-20	CJ	58.5	ok
4-27-20	DS	58.6	Ok
4-28-20	DS	58.5	Ok
4-29-20	DS	58.4	Ok
4-30-20	DS	58.4	Ok
5-1-20	DS	59.0	OK
5-2-20	JJ	58.8	Ok
5-3-20	KS	59.0	OK
5-4-20	DS	59.0	Ok
5-5-20	DS	58.8	Ok
5-6-20	DS	58.7	Ok
5-7-20	DS	58.8	OK
5-8-20	DS	58.7	Ok
5-9-20	DS	58.7	Ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
5-10-20	DS	58.5	OK
5-11-20	DS	58.7	OK
5-12-20	DS	58.4	OK
5-13-20	DS	58.4	OK
5-14-20	JJ	58.4	ok
5-15-20	DS	58.3	OK
5-16-20	KS	58.1	OK
5-17-20	KS	58.2	OK
5-18-20	DS	58.3	OK CHANGED BUFFER SOLUTIONS
5-19-20	DS	58.8	OK
5-20-20	DS	58.8	OK
5-21-20	DS	58.7	OK
5-22-20	DS	58.8	OK
5-23-20	CJ	58.6	ok
5-24-20	CJ	58.5	ok
5-25-20	CJ	58.3	ok
5-26-20	DS	58.6	OK
5-27-20	JJ	58.2	ok
5-28-20	DS	58.5	OK
5-29-20	DS	58.3	OK
5-30-20	JJ	58.4	OK
5-31-20	JJ	58.5	ok
6-1-20	DS	58.4	OK
6-2-20	JJ	58.4	ok
6-3-20	DS	58.3	OK
6-4-20	DS	57.9	OK
6-5-20	DS	58.1	ok
6-6-20	JJ	58.1	OK
6-7-20	JJ	58.1	OK
6-8-20	DS	58.1	OK
6-9-20	CJ	57.8	
6-10-20	DS	58.0	OK, CHANGED BUFFER/STORAGE SOLUTIONS

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
6-11-20	DS	58.6	ok
6-12-20	JJ	58.3	ok
6-13-20	CJ	58.5	ok
6-14-20	CJ	58.2	ok
6-15-20	DS	58.3	ok
6-16 20	DS	58.5	ok
6-17-20	DS	58.4	ok
6-18-20	DS	58.6	ok
6-19-20	DS	58.4	ok
6-20-20	DS	58.4	ok
6-21-20	DS	58.3	ok
6-22-20	DS	58.2	ok
6-23-20	DS	58.3	ok
6-24-20	DS	58.2	ok
6-25-20	DS	58.2	ok
6-26-20	JJ	58.1	ok
6-27-20	KS	58.2	ok
6-28-20	KS	58.2	ok
6-29-20	DS	58.3	ok
6-30-20	DS	58.4	ok
7-1-20	DS	58.3	ok
7-2-20	JJ	58.2	ok
7-3-20	KS	58.1	ok
7-4-20	KS	58.1	ok
7-5-20	KS	58.1	ok
7-6-20	JJ	57.9	ok
7-7-20	JJ	58.0	ok
7-8-20	JJ	57.8	ok
7-9-20	JJ	57.8	ok
7-10-20	JJ	57.6	ok
7-11-20	JJ	57.4	ok
7-12-20	JJ	57.8	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
7-13-20	JJ	57.7	ok
7-14-20	JJ	57.7	ok
7-15-20	JJ	57.6	ok
7-16-20	JJ	57.7	ok
7-17-20	JJ	57.7	ok
7-18-20	JJ	57.7	ok
7-19-20	JJ	57.3	ok
7-20-20	JJ	57.2	ok
7-21-20	DS	57.3	ok
7-22-20	JJ	57.0	ok
7-23-20	JJ	57.0	ok
7-24-20	JJ	57.0	ok Changed Buffer Solution
7-25-20	CJ	58.8	ok
7-26-20	CJ	58.5	ok
7-27-20	JJ	58.3	ok
7-28-20	JJ	58.6	ok
7-29-20	CJ	58.6	ok
7-30-20	JJ	58.4	ok
7-31-20	JJ	58.5	ok
8-1-20	KS	58.5	ok
8-2-20	KS	58.3	ok
8-3-20	JJ	58.1	ok
8-4-20	JJ	57.8	ok
8-5-20	JJ	58.0	ok
8-6-20	JJ	58.2	ok
8-7-20	JJ	57.5	ok
8-8-20	JJ	58.2	ok
8-9-20	JJ	58.0	ok
8-10-20	JJ	57.8	ok
8-11-20	JJ	57.8	ok
8-12-20	JJ	58.0	ok
8-13-20	JJ	58.0	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
8-14-20	JJ	57.9	ok
8-15-20	DS	57.6	ok
8-16-20	DS	57.4	ok
8-17-20	JJ	57.4	ok
8-18-20	JJ	57.2	ok
8-19-20	JJ	57.3	ok
8-20-20	JJ	57.3	ok
8-21-20	JJ	57.1	ok
8-22-20	JJ	56.9	ok
8-23-20	JJ	56.9	ok
8-24-20	JJ	56.9	ok
8-25-20	CJ	56.9	ok
8-26-20	JJ	56.9	ok
8-27-20	KS	56.9	ok
8-28-20	JJ	57.0	ok
8-29-20	KS	58.9	ok Changed Buffers & Storage
8-30-20	KS	59.0	ok
8-31-20	JJ	58.8	ok
9-1-20	JJ	58.9	ok
9-2-20	JJ	58.8	ok
9-3-20	JJ	58.8	ok
9-4-20	JJ	58.7	ok
9-5-20	DS	58.9	ok
9-6-20	DS	58.8	ok
9-7-20	DS	58.7	ok
9-8-20	JJ	58.5	ok
9-9-20	JJ	58.7	ok
9-10-20	JJ	58.6	ok
9-11-20	KS	58.6	ok
9-12-20	KS	58.5	ok
9-13-20	KS	58.6	ok
9-14-20	JJ	58.5	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
9-15-20	JJ	58.4	ok
9-16-20	DS	58.2	ok
9-17-20	JJ	57.8	ok
9-18-20	KS	58.1	OK
9-19-20	CJ	57.9	OK
9-20-20	CJ	57.9	OK
9-21-20	JJ	58.3	ok
9-22-20	JJ	58.0	ok
9-23-20	DS	58 2	ok
9-24-20	DS	58.0	OK
9-25-20	DS	58.0	ok
9-26-20	CJ	57.4	OK
9-27-20	CJ	57.4	OK
9-28-20	JJ	58.0	ok
9-29-20	JJ	57.6	ok
9-30-20	JJ	57.5	ok
10-1-20	JJ	57.6	ok
10-2-20	DS	57.5	ok
10-3-20	CJ	57.5	OK
10-4-20	CJ	57.5	OK
10-5-20	JJ	57.5	ok
10-6-20	JJ	57.6	ok
10-7-20	JJ	57.6	ok
10-8-20	JJ	57.5	ok
10-9-20	JJ	57.5	ok
10-10-20	JJ	57.3	ok
10-11-20	DS	57.5	OK
10-12-20	JJ	57.2	ok
10-13-20	JJ	57.2	ok
10-14-20	JJ	57.0	ok
10-15-20	JJ	57.2	ok
10-16-20	JJ	57.0	ok
10-17-20	KS	57.1	OK
10-18-20	JJ	57.1	ok
10-19-20	JJ	57.1	OK

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
10-20-20	JJ	56.6	ok
10-21-20	JJ	56.9	ok
10-22-20	JJ	57.1	ok
10-23-20	JJ	57.0	ok
10-24-20	KS	56.9	ok
10-25-20	KS	56.9	ok
10-26-20	JJ	56.9	ok Changed Buffers + storage
10-27-20	JJ	59.3	ok
10-28-20	JJ	59.3	ok
10-29-20	JJ	59.2	ok
10-30-20	JJ	59.2	ok
10-31-20	CJ	59.0	ok
11-1-20	CJ	59.0	ok
11-2-20	JJ	59.0	ok
11-3-20	JJ	59.2	ok
11-4-20	JJ	58.7	ok
11-5-20	JJ	58.8	ok
11-6-20	JJ	58.7	ok
11-7-20	DS	58.7	ok
11-8-20	DS	58.9	ok
11-9-20	JJ	58.6	ok
11-10-20	JJ	58.8	ok
11-11-20	DS	58.7	ok
11-12-20	JJ	58.8	ok
11-13-20	JJ	58.6	ok
11-14-20	JJ	58.2	ok
11-15-20	JJ	58.3	ok
11-16-20	JJ	58.1	ok
11-17-20	JJ	58.1	ok
11-18-20	JJ	58.0	ok
11-19-20	JJ	58.2	ok
11-20-20	JJ	58.3	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
11-21-20	JJ	58.2	ok
11-22-20	JJ	58.3	ok
11-23-20	JJ	58.1	ok
11-24-20	JJ	58.1	ok
11-25-20	DS	57.9	OK
11-26-20	JJ	57.7	ok
11-27-20	JJ	57.9	ok
11-28-20	JJ	57.9	ok
11-29-20	JJ	57.8	ok
11-30-20	JJ	57.9	ok
12-1-20	JJ	57.6	ok
12-2-20	KS	57.5	Ok
12-3-20	JJ	57.6	ok
12-4-20	JJ	57.5	ok
12-5-20	KS	57.3	ok
12-6-20	KS	57.2	Ok
12-7-20	JJ	57.3	ok
12-8-20	JJ	57.1	ok
12-9-20	JJ	56.9	ok
12-10-20	JJ	57.0	ok Changed Buffers + storage
12-11-20	JJ	59.6	ok
12-12-20	CJ	59.3	ok
12-13-20	CJ	59.3	ok
12-14-20	JJ	59.5	ok
12-15-20	JJ	59.3	ok
12-16-20	JJ	59.2	ok
12-17-20	JJ	59.1	ok
12-18-20	JJ	59.2	OK
12-19-20	DS	59.2	ok
12-20-20	DS	58.8	ok
12-21-20	JJ	58.7	ok
12-22-20	JJ	58.9	ok

McKinleyville Community Services District
Wastewater Management Facility
pH Meter (Hach sensION378 / Probe 51935-00)
Calibration Log
Calibration to be conducted daily

Date	Calibrated by	Slope	Remarks
12-23-20	JJ	58.9	ok
12-24-20	DS	59.0	ok
12-25-20	DS	59.0	ok
12-26-20	CJ	58.4	ok
12-27-20	CJ	57.3	ok
12-28-20	JJ	58.8	ok
12-29-20	JJ	58.8	ok
12-30-20	JJ	58.6	ok
12-31-20	JJ	58.5	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
1-1-20	DS	4°	ok
1-2-20	KS	4°	ok
1-3-20	DS	4°	ok
1-4-20	DS	4°	ok
1-5-20	DS	4°	ok
1-6-2020	CJ	3°	ok
1-7-20	KS	3°	Ok
1-8-2020	CJ	3°	ok
1-9-2020	CJ	3°	ok
1-10-20	KS	4°	Ok
1-11-2020	KS	4°	Ok
1-12-20	KS	4°	Ok
1-13-20	DS	4°	ok
1-14-2020	CJ	4°	ok
1-15-2020	DS	4°	ok
1-16-2020	DS	4°	ok
1-17-20	DS	4°	ok
1-18-2020	CJ	4°	ok
1-19-2020	CJ	3°	ok
1-20-2020	CJ	3°	ok
1-21-2020	JJ	4°	ok
1-22-2020	JJ	4°	ok
1-23-2020	JJ	4°	ok
1-24-2020	JJ	3°	ok
1-25-20	KS	4°	Ok
1-26-20	KS	4°	Ok
1-27-2020	JJ	4°	ok
1-28-2020	JJ	4°	ok
1-29-20	DS	4°	ok
1-30-20	JJ	3°	ok
1-31-20	JJ	4°	ok
2-1-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
2-2-20	JJ	4°	ok
2-3-20	JJ	3°	ok
2-4-20	JJ	3°	ok
2-5-20	DS	4°	ok
2-6-20	JJ	4°	ok
2-7-20	JJ	3°	ok
2-8-20	CJ	3°	ok
2-9-20	CJ	3°	ok
2-10-20	JJ	3°	ok
2-11-20	JJ	3°	ok
2-12-20	JJ	3°	ok
2-13-20	JJ	3°	ok
2-14-20	JJ	3°	ok
2-15-20	KS	3°	OK
2-16-20	KS	4°	OK
2-17-20	KS	4°	OK
2-19-20	JJ	4°	ok
2-19-20	JJ	4°	ok
2-20-20	JJ	4°	ok
2-21-20	JJ	4°	ok
2-22-20	DS	4°	ok
2-23-20	DS	4°	ok
2-24-20	JJ	4°	ok
2-25-20	JJ	4°	ok
2-26-20	CJ	4°	ok
2-27-20	JJ	4°	ok
2-28-20	JJ	4°	ok
2-29-20	CJ	3°	ok
3-1-20	CJ	3°	ok
3-2-20	JJ	3°	ok
3-3-20	JJ	3°	ok
3-4-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
3-5-20	JJ	4°	ok
3-6-20	JJ	4°	ok
3-7-20	JJ	4°	ok
3-8-20	JJ	3°	ok
3-9-20	JJ	3°	ok
3-10-20	JJ	4°	ok
3-11-20	JJ	4°	ok
3-12-20	JJ	4°	ok
3-13-20	JJ	3°	ok
3-16-20	JJ	3°	ok
3-17-20	JJ	4°	ok
3-18-20	JJ	4°	ok
3-19-20	JJ	3°	ok
3-20-20	JJ	4°	ok
3-21-20	[illegible]	3°	ok
3-22-20	CJ	3°	ok
3-23-20	JJ	4°	ok
3-24-20	JJ	4°	ok
3-29-20	DS	4°	ok
3-26-20	JJ	3°	ok
3-27-20	DS	4°	ok
3-28-20	JJ	4°	ok
3-29-20	JJ	4°	ok
3-30-20	DS	4°	ok
3-31-20	DS	4°	ok
4-1-20	DS	4°	ok
4-2-20	DS	4°	ok
4-3-20	DS	4°	ok
4-4-20	KS	3°	ok
4-5-20	KS	4°	ok
4-6-20	DS	4°	ok
4-7-20	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
4-8-20	DS	4°	ok
4-9-20	DS	4°	ok
4-10-20	DS	4°	ok
4-11-20	CJ	4°	ok
4-12-20	CJ	4°	ok
4-13-20	DS	4°	ok
4-14-20	DS	4°	ok
4-15-20	DS	4°	ok
4-16-20	DS	4°	ok
4-17-20	DS	4°	ok
4-18-20	JJ	4°	ok
4-19-20	JJ	4°	ok
4-20-20	DS	4°	ok
4-21-20	DS	4°	ok
4-22-20	DS	4°	ok
4-23-20	DS	4°	ok
4-24-20	DS	4°	ok
4-25-20	CJ	4°	ok
4-26-20	CJ	4°	ok
4-27-20	DS	4°	ok
4-28-20	DS	4°	ok
4-29-20	DS	4°	ok
4-30-20	DS	4°	ok
5-1-20	DS	4°	ok
5-2-20	JJ	4°	ok
5-3-20	KS	4°	ok
5-4-20	DS	4°	ok
5-5-20	DS	4°	ok
5-6-20	DS	4°	ok
5-7-20	DS	4°	ok
5-8-20	DS	4°	ok
5-9-20	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
5-10-20	DS	4°	ok
5-11-20	DS	4°	ok
5-12-20	DS	4°	ok
5-13-20	DS	4°	ok
5-14-20	JJ	4°	ok
5-15-20	DS	4°	ok
5-16-20	KS	5°	OK Adjusted down
5-17-20	KS	4°	OK
5-18-20	DS	4°	ok
5-19-20	DS	4°	ok
5-20-20	DS	4°	ok
5-21-20	DS	4°	ok
5-22-20	DS	4°	ok
5-23-20	CJ	4°	ok
5-24-20	CJ	4°	ok
5-25-20	CJ	4°	ok
5-26-20	DS	4°	ok
5-27-20	JJ	4°	ok
5-28-20	DS	4°	ok
5-29-20	DS	4°	ok
5-30-20	JJ	4°	ok
5-31-20	JJ	4°	ok
6-1-20	DS	4°	ok
6-2-20	JJ	4°	ok
6-3-20	DS	4°	ok
6-4-20	DS	4°	ok
6-5-20	DS	4°	ok
6-6-20	JJ	4°	ok
6-7-20	JJ	4°	ok
6-8-20	DS	4°	ok
6-9-20	CJ	4°	ok
6-10-20	DS	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
6-11-20	DS	4°	ok
6-12-20	JJ	4°	OK
6-13-20	CJ	4°	OK
6-14-20	CJ	4°	ok
6-15-20	DS	4°	Ok
6-16-20	DS	4°	ok
6-17-20	DS	4°	ok
6-18-20	DS	4°	ok
6-19-20	DS	4°	ok
6-20-20	DS	4°	ok
6-21-20	DS	4°	ok
6-22-20	DS	4°	ok
6-23-20	DS	4°	ok
6-24-20	DS	4°	ok
6-25-20	DS	4°	ok
6-26-20	JJ	4°	OK
6-27-20	KS	4°	OK
6-28-20	KS	4°	ok
6-29-20	DS	4°	ok
6-30-20	DS	4°	OK
7-1-20	DS	4°	ok
7-2-20	JJ	4°	OK
7-3-20	KS	4°	OK
7-4-20	KS	4°	OK
7-5-20	KS	4°	OK
7-6-20	JJ	4°	OK
7-7-20	JJ	4°	OK
7-8-20	JJ	4°	OK
7-9-20	JJ	4°	OK
7-10-20	JJ	4°	OK
7-11-20	JJ	4°	OK
7-12-20	JJ	4°	OK

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
7-13-20	JJ	4°	OK
7-14-20	JJ	5°	ok
7-15-20	JJ	4°	ok
7-16-20	JJ	5°	ok
7-17-20	JJ	5°	ok
7-18-20	JJ	5°	ok
7-19-20	JJ	4°	ok
7-20-20	JJ	4°	ok
7-21-20	DS	4°	ok
7-22-20	JJ	40	ok
7-23-20	JJ	40	ok
7-24-20	JJ	40	ok
7-25-20	CJ	4°	ok
7-26-20	CJ	4°	ok
7-27-20	JJ	4°	ok
7-28-20	JJ	40	ok
7-29-20	CJ	4°	ok
7-30-20	JJ	4°	ok
7-31-20	JJ	4°	ok
8-1-20	KS	4°	ok
8-2-20	KS	4°	ok
8-3-20	JJ	4°	ok
8-4-20	JJ	40	ok
8-5-20	JJ	40	ok
8-6-20	JJ	40	ok
8-7-20	JJ	4°	ok
8-8-20	JJ	4°	ok
8-9-20	JJ	4°	ok
8-10-20	JJ	4°	ok
8-11-20	JJ	4°	ok
8-12-20	JJ	4°	ok
8-13-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
8-14-20	JJ	4°	ok
8-15-20	DS	4°	ok
8-16-20	DS	4°	ok
8-17-20	JJ	4°	ok
8-18-20	JJ	4°	ok
8-19-20	JJ	4°	ok
8-20-20	JJ	4°	ok
8-21-20	JJ	5°	ok
8-22-20	JJ	5°	ok
8-23-20	JJ	4°	ok
8-24-20	JJ	4°	ok
8-25-20	CJ	4°	ok
8-26-20	JJ	4°	ok
8-27-20	KS	4°	ok
8-28-20	JJ	5°	ok
8-29-20	KS	4°	ok
8-30-20	KS	4°	ok
8-31-20	JJ	4°	ok
9-1-20	JJ	4°	ok
9-2-20	JJ	4°	ok
9-3-20	JJ	4°	ok
9-4-20	JJ	4°	ok
9-5-20	DS	4°	ok
9-6-20	DS	4°	ok
9-7-20	DS	4°	ok
9-8-20	JJ	4°	ok
9-9-20	JJ	4°	ok
9-10-20	JJ	4°	ok
9-11-20	KS	4°	ok
9-12-20	KS	4°	ok
9-13-20	KS	4°	ok
9-14-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
9-15-20	JJ	4°	ok
9-16-20	DS	4°	ok
9-17-20	JJ	5°	ok
9-18-20	KS	5°	ok Adjusted
9-19-20	CJ	5°	ok
9-20-20	CJ	5°	ok
9-21-20	JJ	4°	ok
9-22-20	JJ	4°	ok
9-23-20	DS	4°	ok
9-24-20	DS	4°	ok
9-25-20	DS	4°	ok
9-26-20	CJ	5°	ok
9-27-20	CJ	5°	ok
9-28-20	JJ	5°	ok
9-29-20	JJ	5°	ok
9-30-20	JJ	4°	ok
10-1-20	JJ	4°	ok
10-2-20	DS	4°	ok
10-3-20	CJ	4°	ok
10-4-20	CJ	4°	ok
10-5-20	JJ	4°	ok
10-6-20	JJ	4°	ok
10-7-20	JJ	4°	ok
10-8-20	JJ	4°	ok
10-9-20	JJ	4°	ok
10-10-20	JJ	4°	ok
10-11-20	DS	4°	ok
10-12-20	JJ	4°	ok
10-13-20	JJ	4°	ok
10-14-20	JJ	4°	ok
10-15-20	JJ	4°	ok
10-16-20	JJ	4°	ok
10-17-20	KS	4°	ok
10-18-20	JJ	4°	ok
10-19-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
10-20-20	JJ	4°	ok
10-21-20	JJ	3°	ok
10-22-20	JJ	4°	ok
10-23-20	JJ	3°	ok
10-24-20	KS	4°	OK
10-25-20	KS	4°	OK
10-26-20	JJ	4°	ok
10-27-20	JJ	4°	ok
10-28-20	JJ	4°	ok
10-29-20	JJ	4°	ok
10-30-20	JJ	4°	ok
10-31-20	CJ	3°	ok
11-1-20	CJ	3°	ok
11-2-20	JJ	4°	ok
11-3-20	JJ	4°	ok
11-4-20	JJ	4°	ok
11-5-20	JJ	4°	ok
11-6-20	JJ	4°	ok
11-7-20	DS	4°	ok
11-8-20	DS	4°	ok
11-9-20	JJ	4°	ok
11-10-20	JJ	4°	ok
11-11-20	DS	4°	ok
11-12-20	JJ	4°	ok
11-13-20	JJ	4°	ok
11-14-20	JJ	4°	ok
11-15-20	JJ	4°	ok
11-16-20	JJ	4°	ok
11-17-20	JJ	4°	ok
11-18-20	JJ	4°	ok
11-19-20	JJ	4°	ok
11-20-20	JJ	3°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
11-21-20	JJ	3°	ok
11-22-20	JJ	4°	ok
11-23-20	JJ	3°	ok
11-24-20	JJ	3°	ok
11-25-20	DS	4°	ok
11-26-20	JJ	4°	ok
11-27-20	JJ	3°	ok
11-28-20	JJ	4°	ok
11-29-20	JJ	3°	ok
11-30-20	JJ	3°	ok
12-1-20	JJ	4°	ok
12-2-20	KS	2°	ok
12-3-20	JJ	3°	ok
12-4-20	JJ	4°	ok
12-5-20	KS	3°	ok
12-6-20	KS	4°	ok
12-7-20	JJ	4°	ok
12-8-20	JJ	4°	ok
12-9-20	JJ	4°	ok
12-10-20	JJ	4°	ok
12-11-20	JJ	4°	ok
12-12-20	CJ	4°	ok
12-13-20	CJ	4°	ok
12-14-20	JJ	4°	ok
12-15-20	JJ	4°	ok
12-16-20	JJ	4°	ok
12-17-20	JJ	4°	ok
12-18-20	JJ	3°	ok
12-19-20	DS	4°	ok
12-20-20	DS	4°	ok
12-21-20	JJ	4°	ok
12-22-20	JJ	3°	ok

McKinleyville Community Services District
Wastewater Management Facility
Refrigerator Temperature Monitoring Log
Monitoring of Temperature to be conducted daily

Date	Verified by:	Temperature	Remarks
12-23-20	JJ	3°	ok
12-24-20	DS	3°	ok
12-25-20	DS	4°	ok
12-26-20	CJ	4°	ok
12-27-20	CJ	4°	ok
12-28-20	JJ	4°	ok
12-29-20	JJ	3°	ok
12-30-20	JJ	4°	ok
12-31-20	JJ	4°	ok

McKinleyville Community Services District
Wastewater Management Facility
Micro/2000 Chlorine Analyzer
Calibration Log

Calibration to be conducted bi-weekly unless weekly is warranted

Date	Calibrated by	Remarks
1-2-20	KS	2pt cal w/0.00 cw Res & 2.1mg/L Res. Topped of Buffers.
1-9-20	CJ	TOPPED OF BUFFERS, ADDED SAND, INSPECTED TUBING & PUMP
1-16-20	DS	INSPECTED
1-23-20	DS/JJ	INSPECTED, CAL W/0.00+3.40 STANDARDS, MADE NEW KI SOLUTION
1-30-20	JJ/DS	Inspected
2-6-20	JJ/DS	Inspected /Cal
2-13-20	JJ	Inspected
2-20-20	JJ	Inspected, cal w/0.00 + 3.00 mg/L
2-27-20	JJ	Inspected
3-3-20	JJ	Inspected cal w/0.00+3.70 mg/L, Made New KI
3-12-20	JJ	Inspected
3-19-20	JJ	Inspected, cal w/0.00+2.60 mg/L
3-26-20	DS	INSPECTED
4-2-20	DS	INSPECTION AND CAL
4-9-20	DS	INSPECTION
4-16-20	DS	INSPECTION, CAL, NEW KI/ACETATE BUFFER SOLUTIONS
4-23-20	DS	INSPECTION
4-30-20	DS	INSPECTION/CAL
5-7-20	DS	INSPECTION
5-14-20	JJ	Inspeted, cal w/0.00+5.00 mg/L, made New KI
5-21-20	DS	INSPECTED
5-28-20	DS	INSPECTED, CAL W/3.3 mg/L
6-4-20	DS	INSPECTED
6-11-20	DS	INSPECT, CAL, REPLACE HOSES IN PUMP & INTAKE
6-18-20	DS	INSPECT, MAKE NEW KI
6-25-20	DS	INSPECT/CAL
7-2-20	JJ	Inspected
7-9-20	JJ	Inspect /cal w/3.3 mg/L
7-16-20	JJ	Inspect- made New KI
7-22-20	JJ	Inspected /cal w/3.8 mg/L

McKinleyville Community Services District
Wastewater Management Facility
Micro/2000 Chlorine Analyzer
Calibration Log

Calibration to be conducted bi-weekly unless weekly is warranted

Date	Calibrated by	Remarks
7-30-20	JS	Inspected
8-6-20	JS	Inspected / cal w/ 4.9 mg/L
8-13-20	JS	Inspected made new KI
8-20-20	JS	Inspected / cal w/ 3.9 mg/L
9-23-20	DS	INSPECTION, CAL W/ 2.8mg/L
10-1-20	JS	Inspected / made New KI
10-8-20	JS	Inspected / CAL w/ 2.6 mg/L
10-15-20	JS	Inspected
10-22-20	JS	Inspected / CAL w/ 4.5 mg/L
10-29-20	JS	Inspected / made New KI
11-4-20	JS	Inspected / cal w/ 3.1 mg/L
11-12-20	JS	Inspected / New Buffer
11-19-20	JS	Inspected / cal w/ 4.9 mg/L
12-3-20	JS	Inspected / cal w/ 3.6 mg/L
12-10-20	JS	Inspected, New KI / Buffer
12-16-20	JS	Inspected / cal w/ 3.4 mg/L

2020 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 fats, 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.							

Non-Residential Survey Checklist

	Date Surveyed	Name	SERVICE ADDRESS	Home Phone	Sewer Class	Domestic Only	Floor Drains/Utility	Chemical Storage	FOG	Remarks	Main Contact
118	4/15/2019	HEALTHSPORT,	1500 ANNA SPARKS	(707)839-9800	14	Y	F	OK	N		
116	4/15/2019	C & K MARKET #37,	1500 A ANNA SPARKS	(707)839-4413	16	-	-	-	-	Vacant	
121	4/15/2019	RITE AID CORPORATION,	1500-D ANNA SPARKS	(866)322-4547	14	Y	F	OK	N		
120	4/15/2019	MCDONALD'S,	1500-E ANNA SPARKS	(209)996-5952	10	N	Y	OK	Y		
119	4/15/2019	S & L SERVICES INC.,	1500-F ANNA SPARKS	(707)825-8213	10	N	Y	OK	Y		
186	5/20/2019	FLY GUYS LLC,	GENRL AVIAT RAMP 10	(707)822-9000	5	Y	F	OK	N		
163	2/5/2019	KREATIONS AUTO BODY,	1560 BATES ROAD	(707)496-5552	12	Y	N	OK	N		Ryan
100	4/15/2019	TURNER, KIMBERLY	1667 BELLA VISTA RD	(707)839-1043	17	Y	N	OK	N		
114	4/15/2019	BIG LAGOON RANCHERIA,	1560 BETTY COURT	(707)826-2079	5	Y	N	OK	N		
113	4/15/2019	BIG LAGOON RANCHERIA,	1570 BETTY COURT	(707)826-2079	14	-	-	-	-	Vacant	
115	4/15/2019	COMING ATTRACTIONS INC,	1575 BETTY COURT	(541)488-1021		Y	F	OK	Y		
112	12/14/2019	MCK CONG JEHOVAH'S WITNES	1580 BETTY COURT	(707)839-0229	7	Y	N	OK	N		
176	5/20/2019	DIVISION OF AVIATION,	BOEING AVENUE	(707)839-5401	18	Y	F/U	OK	N		
180	5/20/2019	MOSER PROPERTIES,	3135 BOEING AVENUE	(707)839-3233	5	Y	N	OK	N		
179	5/20/2019	GSA EUREKA SKYLINE 26 PAR	3140 BOEING AVENUE	(619)220-4161	5	Y	N	OK	N		
177	5/20/2019	FED AVIATION ADMN AWP26B,	3561 BOEING AVENUE	(999)999-9999	18	X	F/U	OK	N		
102	4/15/2019	GROCERY OUTLET,	1581 CENTRAL	(707)630-5262	16	Y	F	OK	N		
104	4/15/2019	CSK AUTO, KRAGEN #4128	1605 CENTRAL	(707)840-9007	14	Y	N	OK	N		
94	5/20/2019	HUMBOLDT PETROLEUM INC.,	1606 CENTRAL	(707)443-3069	19	-	-	-	-	See Industrial Discharge Permit	
108	5/20/2019	HUMBOLDT PETROLEUM INC.,	1606 CENTRAL	(707)443-3069	14	-	-	-	-	See Industrial Discharge Permit	
105	4/15/2019	KEEHN, MARY	1607 CENTRAL	(707)839-1408	5	Y	N	OK	N		
106	4/15/2019	CENTRAL STATION,	1631 CENTRAL	(707)839-2539	10	Y	N	OK	F		
93	4/15/2019	TRI COUNTIES BANK,	1640 CENTRAL	(707)839-8400	14	Y	N	OK	N		
92	9/17/2019	GROSS FAMILY LLC,	1644 CENTRAL	(707)822-4835	5	X	U	OK	N		
90	9/17/2019	ANDERSON, GREG	1660 CENTRAL	(707)599-3434	5	Y	N	OK	N		
107	4/15/2019	REDWOOD OIL COMPANY,	1693 CENTRAL	(707)584-7000	10	N	F/U	OK	Y		
42	4/15/2019	CARMELA'S,	1701 CENTRAL	(707)362-1679	10	N	Y	OK	Y		
89	2/8/2019	CVS PHARMACY, 10513-01	1720 CENTRAL	(707)839-5621	14	Y	F/U	OK	N		Amy Shaner
1	9/17/2019	NORTH COAST NATUROPATHIC	1727 CENTRAL	(707)599-9685	5	X	N	OK	N		
4	9/17/2019	MAD RIVER COMM HOSPITAL,	1733 CENTRAL	(707)822-3621	5	X	N	OK	N		
3	9/17/2019	MCK FAMILY PRACTICE,	1735 CENTRAL	(707)822-3621	5	X	U	OK	N		
5	9/17/2019	LUZMILA'S,	1751 CENTRAL	(707)832-9597	10	N	Y	OK	Y		
6	6/19/2019	BMW OF HUMBOLDT BAY,	1781 CENTRAL	(707)839-4269	14	-	-	-	-	See Industrial Discharge Permit	
7	6/19/2019	BMW OF HUMBOLDT BAY,	1795 CENTRAL	(707)839-4269	14	-	-	-	-	See Industrial Discharge Permit	
8	9/17/2019	RYNEARSON, MARK	1803 CENTRAL	(707)839-4105	5	X	N	OK	N		
9	9/17/2019	FORBES AND ASSOCIATES THS	1807 CENTRAL	(707)845-2448	5	X	N	OK	N		
10	9/17/2019	J.A. SUTHERLAND INC., Taco Bell	1811 CENTRAL	(707)462-1147	10	N	Y	OK	Y		
88	2/8/2019	MILLER FARMS,	1828 CENTRAL	(707)839-1571	14	Y	F/U	OK	N		Kelly Miller
87	2/8/2019	MILLER FARMS,	1834 CENTRAL	(707)839-1571	5	X	N	OK	N		
	2/8/2019	Humboldt Human Resources		(707)839-4477	5	Y	N	OK	N		Jamie Rutten
	2/8/2019	Cottage Realty		(707)839-1897	5	Y	N	OK	N		Kyra O'rourke Jerard
86	9/17/2019	D & R MILLER FAMILY LLC,	1836 CENTRAL	(707)839-1571	5	X	N	OK	N		
	9/17/2019	Humboldt Title	Suite A	(707)839-8250		Y	N	OK	N		Andie Ullsmith
			Suite B		-	-	-	-	-	VACANT	

	Date Surveyed	Name	SERVICE ADDRESS	Home Phone	Sewer Class	Domestic Only	Floor Drains/Utility	Chemical Storage	FOG	Remarks	Main Contact
11	9/17/2019	LDS CHURCH,	1855 CENTRAL	(614)839-4503	7	Y	F/U	OK	N		
85	9/17/2019	MING TREE REALTORS,	1884 CENTRAL	(707)445-4500	5	-	-	-	-	VACANT	
84	2/8/2019	MCKINLEYVILLE CHEVROLET B	1900 CENTRAL	(707)839-5454	22	X	F/U	OK	N		
12	5/30/2019	MICKEY'S QUALITY CARS,	1901 CENTRAL	(707)839-4324	12	-	-	-	-	See Industrial Discharge Permit	
13	5/30/2019	MICKEY'S QUALITY CARS,	1901 CENTRAL	(707)839-4324	19	-	-	-	-	See Industrial Discharge Permit	
75	2/7/2019	STARBUCKS COFFEE #9263,	1924 CENTRAL	(707)840-0253	10	N	F/U	OK	Y		Tracy Flint
74	9/17/2019	Mckinleyville Office Supply	1928 CENTRAL	(707)839-4317	5	Y	N	OK	N		TREPANIER, PAUL
73	2/7/2019	NORTH CA SAFETY CONSORT,	1932 CENTRAL	(707)839-7311	5	Y	N	OK	N		Linda Kjesbu
72	2/7/2019	Parlour Salon	1936 CENTRAL	(707)362-0592	4	Y	U	OK	N		Shanae Gentleman
71	2/7/2019	MURPHY'S PIZZA (OFFICE),	1940 CENTRAL	(707)839-7200	N	Y	N	OK	N		Brenan Hodge
70	12/17/2019	CHURCH OF JOYFUL HEALER,	1944 CENTRAL	(707)839-5691	7	Y	N	OK	N		
21	6/21/2019	ROETTGER, TIMOTHY. DDS	1955 CENTRAL	(707)839-1100	14	-	-	-	-	See Industrial Discharge Permit	
22	5/2/2019	NELSON FLOOR CO.,	1965 CENTRAL	(707)442-2987	22	Y	N	OK	N		
69	2/7/2019	COAST CENTRAL C.U.,	1968 CENTRAL	(707)445-8801	14	X	FD	OK	N		Kelsey Dunn
23	5/2/2019	SCHEFFLER, STACY	1969 CENTRAL	(707)599-7816	4	X	N	OK	N		
24	5/2/2019	EDWARD JONES CO.,	1973 CENTRAL	(314)515-9127	5	X	N	OK	N		
25	5/2/2019	LITTLE CEASARS PIZZA,	1977 CENTRAL	(530)216-9187	10	X	FD/U	OK	N		
68	2/7/2019	BIG OIL & TIRE CO.,	1980 CENTRAL	(707)825-9700	12	Y	N	OK	N		Sierra Williams
26	12/16/2019	MACMULLIN & COMPANY,	1981 CENTRAL	(707)839-3639	14	Y	N	OK	N	Trinity Ballet	
27	5/2/2019	THE STOVE DOCTORS,	1985 CENTRAL	(707)845-3691	14	X	U	OK	Y	Utility sink used for storage	
31	9/4/2019	AYRES ENTERPRISES,	2013 CENTRAL	(707)444-3449	13	X	N	OK	N	Food catchers in sink drains	
32	9/4/2019	MURPHY'S PIZZA,	2015 CENTRAL	(707)839-7200	10	X	FD	OK	Y		
33	9/4/2019	CURTIS, AMANDA	2019 CENTRAL	(707)245-7003	22	X	N	OK	N		
34	9/4/2019	ROUND TABLE DEV. CORP.,	2023 CENTRAL	(707)839-4342	21	X	FD\U	OK	Y	Food catchers in floor drains	
137	9/17/2019	UMPQUA BANK,	2095 CENTRAL	(707)269-7350	14	X	N	OK	N		
129	9/17/2019	NIVEENS,	2145 CENTRAL	(707)839-3417	10	N	Y	OK	Y		
138	9/17/2019	ARCATA FIRE PROTECTION,	2149 CENTRAL	(707)825-2000	17	X	F	OK	N		
133	9/4/2019	MACC VET INC,	2151 CENTRAL	(707)839-1504	14	X	F/U	OK	Y		
132	9/17/2019	MCKINLEYVILLE, EUREKA NAT	2165 CENTRAL	(707)442-6325	16	N	F/U	OK	Y		
171	2/5/2019	ST JOSEPH'S HOSPITAL,	2192 CENTRAL	(707)445-8121	5	Y	N	OK	Y		Sarah Poyen
170	2/5/2019	THE COMPLETE LOOK,	2196 CENTRAL	(707)839-6250	4	Y	N	OK	Y		Theresa Bryan
139	9/18/2019	THE CLUB ON CENTRAL,	2197 CENTRAL	(707)839-8627	14	X	F/U	OK	N		
169	4/30/2019	LES SCHWAB TIRE SERVICE,	2210 CENTRAL	(707)839-8986	12	-	-	-	-	See Industrial Discharge Permit	
128	9/17/2019	MCDONALD, DENNIS	2260 CENTRAL	(707)845-4643	14	Y	N	OK	N		Building used for storage
140	9/18/2019	MCK UNION SCHOOL DIST,	2285 CENTRAL	(707)839-1508	17	N	F/U	OK	Y		
124	2/5/2019	Muddy Paws	2288 CENTRAL	(707)840-0798	4	Y	N	OK	N		Courtney Kime
168	2/5/2019	A & L Feed	2308 CENTRAL	(707)839-3265	14	Y	N	OK	N		Jason Hidezack/Weston Kime
167	12/18/2019	SNOW, VAJRA	2314 CENTRAL	(707)798-0350	5	Y	U	OK	N		
166	2/5/2019	SPECIALTY FOREIGN AUTO,	2330 CENTRAL	(707)839-7547	14	Y	U	OK	N		Craig Lemster
164	9/4/2019	COSBY CONSTRUCTION,	2350 CENTRAL	(707)839-4023	5	X	N	OK	N		
142	9/4/2019	MCGAUGHEY, VERN	2355 CENTRAL	(707)839-1651	5	X	N	OK	N		
162	2/5/2019	RAINBOW SELF STORAGE,	2394 CENTRAL	(707)443-1451	5	Y	N	OK	N		
143	9/18/2019	DICKEY, ANDY	2411 CENTRAL	(707)839-0220	14	X	N	OK	N		
144	9/4/2019	GLEN'S AUTO DISMANTLING,	2555 CENTRAL	(707)839-8160	25	X	F	OK	N		
145	4/30/2019	HUMBOLDT SANITATION,	2585 CENTRAL	(707)839-3285	12	-	-	-	-	See Industrial Discharge Permit	
161	9/4/2019	MARSH, DANNY	2620 CENTRAL	(707)834-4590	27	X	N	OK	N		
159	2/5/2019	BIG OIL & TIRE CO.,	2698 CENTRAL	(707)825-9700	14	Y	F/U	OK	N		
146	9/18/2019	MCK ACE HARDWARE,	2725 CENTRAL	(707)839-1587	14	X	F	OK	N		
147	2/5/2019	LEE, REGGIE	2755 CENTRAL	(707)630-5015	12	Y	N	OK	N		
	2/5/2019	HR Block	2765 Central			Y	N	OK	N		Julie Sims
148	2/5/2019	Central Ave Service Center	2785 CENTRAL	(707)839-8337	12	Y	U	Ok	N		GRISSOM, RICHARD

	Date Surveyed	Name	SERVICE ADDRESS	Home Phone	Sewer Class	Domestic Only	Floor Drains/Utility	Chemical Storage	FOG	Remarks	Main Contact
156	9/18/2019	HUMBOLDT PROP - Laundry	2750 CENTRAL AVE	(707)825-1515	13	X	F	OK	N		
103	9/17/2019	AUTOZONE,	1585 CENTRAL AVE	(901)495-8768	14	X	F	OK	N		
97	9/18/2019	THROGMORTON, VICKI	1149 CENTRAL	(707)834-1960	22	X	N	OK	N		
99	9/18/2019	NORTMAN, KIRK R	1183 CENTRAL	(503)621-3166	5	X	N	OK	N		
96	9/18/2019	FAULKNER, CHARLES	1186 CENTRAL	(707)839-1321	11	-	-	-	-	Private Residence	
95	9/18/2019	SDA CHURCH,	1200 CENTRAL	(707)839-3832	7	X	Fx5	OK	Y		
101	4/15/2019	J.L. FURTADO INC,	1225 CENTRAL	(707)839-0137	5	X	N	OK	N	Many Units	
98	5/28/2019	SIX RIVERS BREWERY,	1300 CENTRAL	(707)499-9007	10	-	-	-	-	See Industrial Discharge Permit	
117	9/18/2019	K-MART CORP, #7390	1480 CENTRAL	(707)839-5063	14	X	N	OK	N		
91	9/18/2019	MAD RIVER COMM HOSPITAL,	1650-B CENTRAL	(707)822-3621	5	X	Fx4	OK	N		
2	6/18/2019	MELLON DDS, GREGORY T	1737 CENTRAL	(707)839-3262	14	-	-	-	-	See Industrial Discharge Permit	
14	4/15/2019	DEMARTINI ENT. LLC,	1933-A CENTRAL	(707)839-0271	5	X	N	OK	N		
15	4/15/2019	DEMARTINI ENT. LLC,	1933-B CENTRAL	(707)839-0271	4	X	N	OK	N		
16	4/15/2019	DEMARTINI ENT. LLC,	1933-C CENTRAL	(707)839-0271	5	X	N	OK	N		
17	4/15/2019	DEMARTINI ENT. LLC,	1933-D CENTRAL	(707)839-0271	5	X	N	OK	N		
45	2/5/2019	MOORES SLEEP WORLD,	2000 CENTRAL	(707)840-9233	14	Y	FD/U	OK	N		Michael Quark
28	9/17/2019	RAINBOW SELF STORAGE,	2003 CENTRAL	(707)443-1451	5	Y	N	OK	N		
29	9/17/2019	IVERSON, ROGER	2007 CENTRAL	(707)839-0755	5	Y	N	OK	N		
30	9/17/2019	BOUGHTON, ALEX	2011 CENTRAL	(707)601-0625	10	X	N	OK	Y	Food catchers in sink drains	
165	2/5/2019	GROW GENERATION INC,	2330 CENTRAL STE 3	(303)386-4796	14	Y	N	OK	N		Charles Curtis
157	2/5/219	HUMBOLDT PROP MGMT,	2720 A CENTRAL	(707)825-1508	5	Y	N	OK	N		
158	9/18/2019	HUMBOLDT PROP MGMT,	2726 CENTRAL #1	(707)825-1515	13	X	N	OK	N		
174	9/18/2019	YUROK INDIAN HOUSING AUTH	1165-D CHANCE LANE	(707)954-2585	13	X	N	OK	N		
58	2/6/2019	RAMONE'S BAKERY,	1555 CITY CENTER	(707)407-9375	15	N	F/U	OK	Y		Michelle Rivas
50	2/5/2019	SAFEWAY #1640,	1503 CITY CENTER	(707)362-0092	16	X	F/U	OK	N		Cody
48	2/5/2019	L & A ENTERPRISES/Barber Shop	1514 CITY CENTER	(707)839-1313	22	X	N	OK	N		Leroy Murrell
52	2/5/2019	L & A ENTERPRISES,	1517 CITY CENTER	(707)268-1800	14	N	N	OK	N		Greg Pierson
49	9/4/2019	L & A ENTERPRISES,	1520 CITY CENTER	(707)268-1800	17	-	-	-	-	VACANT	
51	2/5/2019	SINGH HEER, MANPREET	1523 CITY CENTER	(707)442-4239	14	N	F/U	OK	N	Spoke about 2ndary containment of household chemicals	
47	9/4/2019	L & A ENTERPRISES,	1524 CITY CENTER	(707)268-1800	14	-	-	-	-	VACANT	Greg Pierson
53	2/5/2019	Funk Shui	1537 CITY CENTER	(707)839-3547	14	X	N	OK	N		Hayle Schmidtke
54	2/7/2019	Nail Bar	1541 CITY CENTER	(707)845-8983	4	X	N	OK	N		NGUYEN, DANNY
55	9/4/2019	L & A ENTERPRISES,	1545 CITY CENTER	(707)268-1800	14	-	-	-	-	VACANT	
46	2/5/2019	SUSHI SPOT INC.,	1552 CITY CENTER	(707)839-1222	10	N	F/U	OK	Y	Spoke about 2ndary containment of household chemicals	Robert Hernandez
56	2/7/2019	BOLTON, SHAWN P.	1553 CITY CENTER	(530)629-4374	10	-	-	-	-	VACANT	
59	2/7/2019	US POSTAL SERVICE,	1561 CITY CENTER	(707)839-7612	5	X	U	OK	N		Tom Szanto
60	2/6/2019	SUBWAY,	1565 CITY CENTER	(707)443-5787	10	Y	F/U	OK	Y		
61	2/6/2019	CLONEY'S MCK PHARMACY,	1567 CITY CENTER	(707)840-9923	14	X	U	OK	N		Rich
183	5/20/2019	MOSER PROPERTIES,	3101 CONCORDE DR	(707)839-3233	5	X	F	OK	N		
182	5/20/2019	MAY ABRAHAMSEN & BARSANTI	3103 CONCORDE DR	(707)839-9444	5	X	U	OK	N		
181	5/20/2019	RENESON HOTELS INC.,	3107 CONCORDE DR	(415)864-3644	11	X	F	OK	N		
178	5/20/2019	HUMBOLDT COUNTY SHERIFF,	CONVAIR AVENUE	(707)840-9132	14	X	F/U	OK	N		
122	9/4/2019	WESLEYAN CHURCH,	1645 FISCHER	(707)839-2625	7	Y	N	OK	N		
136	9/18/2019	FURROW, DEVIN	1621 GWIN ROAD	(707)502-5667	17	X	N	OK	N		
135	9/18/2019	JACOBSON ENGINEERING,	1665 GWIN ROAD	(707)839-5002	5	X	U	OK	N		
175	9/18/2019	J.L. FURTADO INC,	3329 HALFWAY AVE	(707)839-0137	5	X	N	OK	N		

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83	2/8/2019	FRESENIUS MEDICAL CARE,	1500 HEARTWOOD DR	(707)839-4465	76	N	F/U	OK	N		Karlo Collamate
77	2/7/2019	HENDRICKS BUSINESS CNTR,	1585 HEARTWOOD DR	(707)362-2069	5	X	N	OK	N		
	2/7/2019	Brenda Rosdahl	Suite A	(707)839-2722		Y	N	OK	N		
	2/7/2019	Farmers Insurance	Suite C			y	N	OK	N		
	2/7/2019	IT computer repair	Suite e	(707)444-3280		y	N	OK	N		Tyler Walchock
	2/7/2019	Wild Planet	Suite D,F,G	(707)840-9116		y	N	OK	N		Elizabeth Oberstrat
	2/7/2019	Humboldt Back and Neck Pain				Y	N	OK	N		
	2/7/2019	Eureka Physical Therapy	Suite H	(707)839-1802		y	N	OK	N		Jose Garcia
76	2/7/2019	BURGER KING,	1645 HEARTWOOD DR	(707)954-5801	10	N	F/U	OK	Y	Spoke about 2ndary containment for cleaning supplies	Heather Jared
78	5/2/2019	7UP/DR PEPPER SNAPPLE GRO	1555 HEARTWOOD DR	(707)840-9727	14	X	N	OK	N		
127	12/17/2019	CHURCH OF THE LIGHT,	1170 HILLER ROAD	(707)839-4331	7	Y	Fx4	OK	N		
63	5/2/2019	THE SWEET SPOT,	1300 HILLER ROAD	(707)496-4309	10	N	F/U	OK	Y		
64	5/2/2019	JACOBS, ETHAN	1300 HILLER ROAD	(707)498-1342	5	X	F/U	OK	N		
65	5/2/2019	JACOBS, ETHAN	1300 HILLER ROAD	(707)496-4309	13	X	F/U	OK	N		
66	5/2/2019	GOOD SHEPHERD CHURCH,	1450 HILLER ROAD	(707)839-3726	7	X	N	OK	OK		Len Hubbard
67	5/2/2019	NORTHCOAST CHILDRENS SVC,	1460 HILLER ROAD	(707)822-7206	24	X	N	OK	N		
20	5/2/2019	RAINBOW SELF STORAGE,	1641 HOLLY	(707)443-1451	5	X	N	OK	N	Office leased to third party	
18	4/23/2019	EVENSON, MICHAEL	1642 HOLLY	(707)839-4425	19	-	-	-	-	See Industrial Discharge Permit	
19	5/2/2019	CASCADIA ENVIR SCIENCES,	1652 HOLLY	(707)839-5130	5	X	N	OK	N		
141	9/4/2019	VALADAO, LUIS	LNDRY MARGO LANE	(707)822-8455	13	X	N	OK	N		
36	5/20/2019	REGLI, JON	1738 MARKET	(707)839-1418	12	X	N	OK	N		
110	5/20/2019	ROMAN CATHOLIC CHURCH,	1951 MCKINLEYVILLE	(707)839-2911	7	X	F/U	OK	N		
173	5/20/2019	THE HUMBOLDT GROUP LLC.,	2216 MCKINLEYVILLE	(707)499-6202	5	X	N	OK	N		
172	5/20/2019	MCK UNION SCHOOL DIST,	2395 MCKINLEYVILLE	(707)839-1549	17	N	F/U	OK	Y		
152	5/20/2019	SUN COMMUNITIES OPER LP,	1000 MURRAY ROAD	(866)322-4547	5	-	-	-	-	VACANT	
151	5/20/2019	BIG OIL & TIRE CO.,	1021 MURRAY ROAD	(707)825-9700	14	X	F/U	OK	N		
150	5/20/2019	GAZAWAY, KIM KAY	1085 MURRAY ROAD	(707)498-7203	14	X	F	OK	N		
153	5/20/2019	MCK. HIGH SCHOOL,	1300 MURRAY ROAD	(707)839-6400	17	N	F/U	OK	Y		
154	12/13/2019	FIRST BAPTIST CHURCH,	1490 MURRAY ROAD	(707)839-2484	7	X	N	OK	N		
155	5/20/2019	L & M RENNER INC.,	1570 MURRAY ROAD	(707)443-1645	14	X	N	OK	N		
149	5/20/2019	REACH,	1654 MURRAY ROAD	(972)829-8329	5	X	N	OK	N		
184	2/5/2019	HIDEAWAY STORAGE INC.,	1675 MURRAY ROAD	(707)822-7100	5	Y	N	OK	N		
82	2/7/2019	Satori Wellness	1551 NURSERY WAY	(707)839-4599	5	Y	U	OK	N		Kate Haenni
79	2/8/2019	D & R MILLER FAMILY LLC,	1580 NURSERY WAY	(707)839-1571	5	Y	N	OK	N		
	2/8/2019	Taxadermy	Suite A	(707)599-4282	5	Y	U	OK	N		Reed Gatton
	2/8/2019	Humboldt Green	Suite D&E	(707)443-3140	5	Y	U	OK	N		Karen Chu
	2/8/2019	Nor Cal Pet	Suite F	(707)839-9201	5	Y	U	OK	N		Jen Rask
	2/8/2019	Fabulous Salon	Suite H	(707)499-5060	5	Y	U	OK	N		Ronda Trumble
	2/8/2019	NHS	Suite K,L,M,N,O,P	(707)839-0245	5	Y	F/U	OK	N		Gary Nelson
80	4/10/2019	SUNDBERG, GARTH	1590 NURSERY WAY	(707)839-1441	5	X	N	OK	N		
	4/10/2019	Mirador Glass	Suite 5	(707)839-0909	5	Y	U	OK	N		Mellissa Sterm
	4/10/2019	Sweat Panda Crossfit	Suite 3	(707)630-5099	5	Y	N	OK	N		
	4/10/2019	Central Lube	Suite 1	(707)839-2171	5	Y	U	OK	N		Thomas O'Kane
81	5/2/2019	MILLER FARMS,	1595 NURSERY WAY	(707)839-1571	14	Y	N	OK	N		
57	5/2/2019	MIRANDA'S RESCUE THRIFT S	1544 PICKETT ROAD	(707)839-5015	14	N	N	OK	N		Christine Loghry
62	5/2/2019	L & A ENTERPRISES,	1547 PICKETT ROAD	(707)268-1800	27	Y	N	OK	N		
134	5/2/2019	HUMB COUNTY SHERIFF DEPT,	1608 PICKETT ROAD	(707)268-2526	5	X	F/U	OK	N		
130	4/29/2019	DAVIS & JOHANSON,	1661 PICKETT ROAD	(707)839-3227	27	-	-	-	-	See Industrial Discharge Permit	

	Date Surveyed	Name	SERVICE ADDRESS	Home Phone	Sewer Class	Domestic Only	Floor Drains/Utility	Chemical Storage	FOG	Remarks	Main Contact
131	12/16/2019	NORTH FORK FULL GOSPEL,	1675 PICKETT ROAD	(707)839-2243	7	Y	N	OK	N		
125	12/16/2019	AT&T,	1551 RAILROAD AVE	(614)839-4503	5	Y	N	OK	N		
160	12/17/2019	CAP'N ZACKS CRAB HOUSE,	1584 REASOR ROAD	(707)839-9059	10	Y	U	OK	N		
109	5/2/2019	REDWOOD ANIMAL HOSPITAL,	1585 SCHOOL ROAD	(707)839-9414	14	X	F/U	OK	N		
123	5/2/2019	SUAREZ, CAROL	791 SCHOOL ROAD	(707)839-3866	14	X	N	OK	N		
41	4/10/2019	VINA, HEATHER	1631 SUTTER	(707)616-3557	5	X	N	OK	N		
40	4/10/2019	ESTATE OF P.A. YOUNG,	1649 SUTTER	(707)839-1555	5	X	N	OK	N		
43	4/10/2019	JACKSON & EKLUND ACCOUNTI	1680 SUTTER	(707)822-4835	5	X	U	OK	N		
39	4/10/2019	THOMAS HOME CENTER,	1685 SUTTER	(707)839-3222	14	X	U	OK	N		
38	4/10/2019	FITZE, DENNIS	1725 SUTTER	(707)498-0086	5	X	N	OK	N		
37	4/10/2019	MOOSE LODGE #208,	1791 SUTTER	(707)839-1391	10	N	U	OK	Y		
35	4/10/2019	AOG LIFEHOUSE HUMBOLDT,	1947 SUTTER	(707)839-2152	7	X	N	OK	N		
44	4/10/2019	CHURCH OF GOD,	2022 SUTTER	(707)672-2292	20	Y	N	OK	N		
185	9/4/2019	ARCATA EUREKA AIRPORT,	1570 W GRANGE RD	(707)839-5401	18	X	F	OK	N		
126	9/4/2019	CHURCH OF CHRIST,	2208 WALNUT AVE	(707)839-5086	7	Y	N	OK	N		
111	12/17/2019	MCK. BAPTIST CHURCH,	1616 WINDSOR	(707)839-0121	7	Y	N	OK	N		
187	4/17/2019	HUMBOLDT REGENERATION	2320 CENTRAL AVE SUITE F	(707)738-8225		-	-	-	-	See Industrial Discharge Permit	
188	6/12/2019	US COAST GUARD				-	-	-	-	See Industrial Discharge Permit	
189	4/30/2019	STEVES SEPTIC	1810 MURRAY RD	(707)839-2270		-	-	-	-	See Industrial Discharge Permit	
190	12/18/2019	SEW & VAC PLUS	1549 CITY CENTER	(707)498-1542		Y	N	OK	N		