

June 2018
Humboldt Mill WTP Effluent Results - Outfall 002

1 - EFF																	
R - INF																	
	Daily	Weekly				2x Month		Weekly		Daily	Weekly		2x Month	Weekly		2x Month	
PARAMETER	Flow	Total Suspended Solids	Total Suspended Solids	Total Dissolved Solids	Total Dissolved Solids	Biochemical Oxygen Demand (BOD %)	Ammonia Nitrogen (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Residual Chlorine	Available Cyanide	Available Cyanide	Total Antimony	Total Arsenic	Total Arsenic	Total Barium	Total Boron
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002	01007	01022
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	R	1	1	1	1	1	1	1	1	1	1	1	1
UNIT	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	lbs/day	µg/L	µg/L	lbs/day	ug/L	µg/L	lbs/day	ug/L	ug/L
1	0.439									2							
2	0.298	<3.3	6.9	240	2400	10.5	0.14	<0.010	<0.025	9	<5.0	<0.012	<1.0	<1.0	<0.002	<1.0	587
3	0.298									4							
4	0.518									1							
5	0.676									2							
6	0.574									2							
7	0.719									3							
8	0.675									6							
9	0.642									7							
10	0.537									1							
11	0.669	<3.3	15.6	240	2500	14.2	0.28	0.010	0.056	5	<5.0	<0.028	<1.0	<1.0	<0.006	<1.0	599
12	0.665									4							
13	0.118									11							
14	0.499									0							
15	0.576									0							
16	0.684									0							
17	0.488									2							
18	0.492	<3.3	5.3	440	2600		0.49	<0.010	<0.041	2	<5.0	<0.021		<1.0	<0.004		
19	0.430									13							
20	0.762									2							
21	0.850									3							
22	0.894									9							
23	0.855									13							
24	0.855									3							
25	0.360									3							
26	0.616	<3.3	5.5	430	2700		0.47	<0.010	<0.051	12	<5.0	<0.026		<1.0	<0.005		
27	0.821									13							
28	0.903									3							
29	0.824									7							
30	0.643									5							
31	0.436									1							

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1 - EFF																
R - INF																
	Weekly		2x Month	Weekly					2x Month	Weekly		2x Month				
PARAMETER	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury
CODE	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055	01055	71900	71900
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	R	1	1	1	1	1	1	1	1
UNIT	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ng/L	lbs/day
1																
2	<0.20	<0.0005	<1.0	<1.0	<0.002	<1.0	<0.002	3.9	<100	<1.0	<0.002	<8.0	<5.0	<0.012	<0.50	<0.0000012
3																
4																
5																
6																
7																
8																
9																
10																
11	<0.20	<0.0011	<1.0	<1.0	<0.006	<1.0	<0.006	77.2	<100	<1.0	<0.006	<8.0	15.7	0.088	<0.50	<0.0000028
12																
13																
14																
15																
16																
17																
18	<0.20	<0.0008		<1.0	<0.004	<1.0	<0.004	4.6	0.18	<1.0	<0.004		35.0	0.144	<0.50	<0.0000021
19																
20																
21																
22																
23																
24																
25																
26	<0.20	<0.0010		<1.0	<0.005	<1.0	<0.005	2.5	<0.10	<1.0	<0.005		45.3	0.233	0	0
27																
28																
29																
30																
31																

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Humboldt Mill WTP Effluent Results - Outfall 002

1 - EFF																
R - INF																
	Weekly												2x Month		W	
PARAMETER	Total Mercury	Total Mercury	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (field duplicate)	Mercury (field duplicate)	Mercury (field blank)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel
CODE	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	R	R	1D	1D	RD	RD	1D	RD	1D	RD	1D	RD	1	1	1	R
UNIT	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L
1																
2	<0.55	<0.0000014	<0.500	<0.0000012	<0.550	<0.0000014	<0.500	<0.550	<0.500	<0.550	<0.500	<0.550	<25.0	<2.0	<0.005	190
3																
4																
5																
6																
7																
8																
9																
10																
11	<0.69	<0.0000038	<0.50	<0.0000028	<0.690	<0.0000038	<0.500	<0.690	<0.500	<0.690	<0.500	<0.690	<25.0	<2.0	<0.011	181
12																
13																
14																
15																
16																
17																
18	<0.64	<0.0000026	<0.500	<0.0000021	<0.640	<0.0000026	<0.500	<0.640	<0.500	<0.640	<0.500	<0.640		<2.0	<0.008	103
19																
20																
21																
22																
23																
24																
25																
26	0	0	0	0	0	0	0	0	0	0	0	0		2.5	0.013	93.9
27																
28																
29																
30																
31																

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1 - EFF																
R - INF																
eekly			2x Month	Weekly		Monthly				Weekly		Daily	Monthly	Dail		
PARAMETER	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc	Total Zinc	Acute Toxicity (ceriodaphnia dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations	pH Minimum
CODE	01147	01147	01147	01082	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400
Monitoring Point	002A	002A	002A	002A	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	1	1	1	1	1	1	1	R	1	1	1	1
UNIT	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.
1													60.7		yes	6.40
2	<1.0	<0.002	4.7	9.7	<10.0	<0.025					62.4	1060	59.7	9.72	yes	6.30
3													59.5		yes	6.44
4													59.3		yes	6.36
5													61.6		yes	6.72
6													62.3		yes	6.69
7													62.1		yes	6.62
8													63.3		yes	6.56
9													64.8		yes	6.38
10													59.1		yes	6.29
11	<1.0	<0.006	4.6	22.0	<10.0	<0.056					128	987	58.5	23.2	yes	6.17
12													60.9		yes	6.74
13													63.1		yes	6.32
14													57.9		yes	6.30
15													60.3		yes	6.88
16													59.4		yes	6.61
17													59.2		yes	6.47
18	<1.0	<0.004	6.8		<10.0	<0.041					232	1100	57.6		yes	6.21
19													62.1		yes	6.12
20							0	0	0	0			60.5		yes	6.21
21													59.2		yes	6.28
22													59.5		yes	6.30
23													60.1		yes	6.41
24													62.1		yes	6.34
25													63.1		yes	6.16
26	1.4	0.007	7.2		<10.0	<0.051					258	1320	62.5		yes	6.414
27													59.6		yes	6.218
28													58.9		yes	6.391
29													60.1		yes	6.06
30													62.9		yes	6.4
31													63.8		yes	6.25

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1 - EFF		
R - INF		
y		
PARAMETER	pH Maximum	Dissolved Oxygen
CODE	00400	00300
Monitoring Point	002A	002A
STAGE	1	1
UNIT	S.U.	mg/L
1	7.54	8.30
2	8.71	8.63
3	8.96	8.29
4	7.71	8.65
5	6.92	8.23
6	7.02	8.36
7	6.99	8.29
8	7.15	8.28
9	7.48	8.36
10	7.41	8.22
11	7.29	8.62
12	7.63	7.98
13	8.94	8.30
14	7.67	7.90
15	7.33	8.43
16	7.74	8.14
17	6.92	8.03
18	6.73	8.43
19	6.75	8.36
20	6.7	8.2
21	6.72	8.19
22	6.79	8.13
23	6.97	8.33
24	7.11	8.13
25	8.02	8.88
26	7.592	8.32
27	8.534	8.34
28	6.987	8.98
29	6.81	7.66
30	6.68	8.09
31	7.67	8.16

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1 - EFF																	
R - INF																	
	Daily	Weekly				2x Month		Weekly		Daily	Weekly		2x Month	Weekly		2x Month	
PARAMETER	Flow	Total Suspended Solids	Total Suspended Solids	Total Dissolved Solids	Total Dissolved Solids	Biochemical Oxygen Demand (BOD %)	Ammonia Nitrogen (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Residual Chlorine	Available Cyanide	Available Cyanide	Total Antimony	Total Arsenic	Total Arsenic	Total Barium	Total Boron
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002	01007	01022
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	R	1	1	1	1	1	1	1	1	1	1	1	1
UNIT	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	lbs/day	µg/L	µg/L	lbs/day	ug/L	µg/L	lbs/day	ug/L	ug/L
1	0.00									2							
2	0.00	<3.3	6.9	240	2400	10.5	0.14	<0.010	0.00	9	<5.0	0.00	<1.0	<1.0	0.00	<1.0	587
3	0.00									4							
4	0.00									1							
5	0.00									2							
6	0.00									2							
7	0.00									3							
8	0.00									6							
9	0.00									7							
10	0.00									1							
11	0.00	<3.3	15.6	240	2500	14.2	0.28	0.010	0.00	5	<5.0	0.00	<1.0	<1.0	0.00	<1.0	599
12	0.00									4							
13	0.00									11							
14	0.00									0							
15	0.00									0							
16	0.00									0							
17	0.00									2							
18	0.00	<3.3	5.3	440	2600		0.49	<0.010	0.00	2	<5.0	0.00		<1.0	0.00		
19	0.00									13							
20	0.00									2							
21	0.00									3							
22	0.00									9							
23	0.00									13							
24	0.00									3							
25	0.00									3							
26	0.00	<3.3	5.5	430	2700		0.47	<0.010	0.00	12	<5.0	0.00		<1.0	0.00		
27	0.00									13							
28	0.00									3							
29	0.00									7							
30	0.00									5							
31	0.00									1							

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1 - EFF																	
R - INF																	
	Weekly		2x Month	Weekly					2x Month	Weekly		2x Month					
PARAMETER	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	Total Mercury
CODE	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055	01055	71900	71900	71900
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	R	1	1	1	1	1	1	1	1	R
UNIT	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ng/L	lbs/day	ng/L
1																	
2	<0.20	0.00	<1.0	<1.0	0.00	<1.0	0.00	3.9	<100	<1.0	0.00	<8.0	<5.0	0.00	<0.50	0.00	<0.55
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11	<0.20	0.00	<1.0	<1.0	0.00	<1.0	0.00	77.2	<100	<1.0	0.00	<8.0	15.7	0.00	<0.50	0.00	<0.69
12																	
13																	
14																	
15																	
16																	
17																	
18	<0.20	0.00	<1.0	<1.0	0.00	<1.0	0.00	4.6	0.18	<1.0	0.00		35.0	0.00	<0.50	0.00	<0.64
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26	<0.20	0.00	<1.0	<1.0	0.00	<1.0	0.00	2.5	<0.10	<1.0	0.00		45.3	0.00	0	0.00	0
27																	
28																	
29																	
30																	
31																	

June 2018
Humboldt Mill WTP Effluent Results - Outfall 003

1 - EFF													2x Month		We	
R - INF																
	Weekly															
PARAMETER	Total Mercury	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (uncorrected sample result)	Mercury (field duplicate)	Mercury (field duplicate)	Mercury (field blank)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	
CODE	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c	7190d	7190d	01062	01067	01067	01067	
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	
STAGE	R	1D	1D	RD	RD	1D	RD	1D	RD	1D	RD	1	1	1	R	
UNIT	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L	
1																
2	0.00	<0.500	0.00	<0.550	0.00	<0.500	<0.550	<0.500	<0.550	<0.500	<0.550	<25.0	<2.0	0.00	190	
3																
4																
5																
6																
7																
8																
9																
10																
11	0.00	<0.50	0.00	<0.690	0.00	<0.500	<0.690	<0.500	<0.690	<0.500	<0.690	<25.0	<2.0	0.00	181	
12																
13																
14																
15																
16																
17																
18	0.00	<0.500	0.00	<0.640	0.00	<0.500	<0.640	<0.500	<0.640	<0.500	<0.640		<2.0	0.00	103	
19																
20																
21																
22																
23																
24																
25																
26	0.00	0	0.00	0	0.00	0	0	0	0	0	0		2.5	0.00	93.9	
27																
28																
29																
30																
31																

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1 - EFF																
R - INF																
ekly			2x Month	Weekly		Monthly				Weekly		Daily	Monthly	Dail		
PARAMETER	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc	Total Zinc	Acute Toxicity (ceriodaphnia dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations	pH Minimum
CODE	01147	01147	01147	01082	01092	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400
Monitoring Point	002A	002A	002A	002A	002A	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	1	1	1	1	1	1	1	R	1	1	1	1
UNIT	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.
1													60.7		yes	6.40
2	<1.0	0.00	4.7	9.7	<10.0	0.00					62.4	1060	59.7	9.72	yes	6.30
3													59.5		yes	6.44
4													59.3		yes	6.36
5													61.6		yes	6.72
6													62.3		yes	6.69
7													62.1		yes	6.62
8													63.3		yes	6.56
9													64.8		yes	6.38
10													59.1		yes	6.29
11	<1.0	0.00	4.6	22.0	<10.0	0.00					128	987	58.5	23.2	yes	6.17
12													60.9		yes	6.74
13													63.1		yes	6.32
14													57.9		yes	6.30
15													60.3		yes	6.88
16													59.4		yes	6.61
17													59.2		yes	6.47
18	<1.0	0.00	6.8		<10.0	0.00					232	1100	57.6		yes	6.21
19													62.1		yes	6.12
20							0	0	0	0			60.5		yes	6.21
21													59.2		yes	6.284
22													59.5		yes	6.302
23													60.1		yes	6.41
24													62.1		yes	6.34
25													63.1		yes	6.16
26	1.4	0.00	7.2		<10.0	0.00					258	1320	62.5		yes	6.414
27													59.6		yes	6.218
28													58.9		yes	6.391
29													60.1		yes	6.06
30													62.9		yes	6.40
31													63.8		yes	6.25

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1 - EFF		
R - INF		
y		
PARAMETER	pH Maximum	Dissolved Oxygen
CODE	00400	00300
Monitoring Point	002A	002A
STAGE	1	1
UNIT	S.U.	mg/L
1	7.54	8.30
2	8.71	8.63
3	8.96	8.29
4	7.71	8.65
5	6.92	8.23
6	7.02	8.36
7	6.99	8.29
8	7.15	8.28
9	7.48	8.36
10	7.41	8.22
11	7.29	8.62
12	7.63	7.98
13	8.94	8.30
14	7.67	7.90
15	7.33	8.43
16	7.74	8.14
17	6.92	8.03
18	6.73	8.43
19	6.75	8.36
20	6.7	8.2
21	6.722	8.19
22	6.792	8.13
23	6.97	8.33
24	7.11	8.13
25	8.02	8.88
26	7.592	8.32
27	8.534	8.34
28	6.987	8.98
29	6.81	7.66
30	6.68	8.09
31	7.67	8.16