

January 2016  
Humboldt Mill WTP Effluent Results - Outfall 001A

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
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	1	R	1	R	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
1	0.002	<3.3	<3.3	440	440	<2.0	0.31	0.0144	0.0002	7	<2.0	<0.00003	3.5	<1.0
2	0.0004									9				
3	0.001									1				
4	0.001									1				
5	0.001									14				
6	0.001									10				
7	0.002									6				
8	0.001	<3.3	<3.3	470	460	<2.0	0.33	0.027	0.0002	6	<2.0	<0.00002	3.3	<1.0
9	0.001									3				
10	0.001									4				
11	0.002									6				
12	0.006									10				
13	0.010									4				
14	0.15									9				
15	0.29	<3.3	<3.3	450	440	<2.0	0.79	<0.0100	<0.0242	5	<2.0	<0.00003	3.1	<1.0
16	0.29									6				
17	0.008									9				
18	0.008									6				
19	0.001									6				
20	0.001									15				
21	0.001									5				
22	0.001	<3.3	<3.3	460	450			<0.0100	<0.0002	5	2.0	0.00002		<1.0
23	0.001									6				
24	0.001									8				
25	0.001									18				
26	0.001									8				
27	0.001									11				
28	0.012									16				
29														
30														
31														

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PARAMETER	Total Arsenic	Total Barium	Total Boron	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead
CODE	01002	01007	01022	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	1	1	1	1	1	1	1	1	1	R	1	1	1
UNIT	lbs/day	ug/L	ug/L	µg/L	lbs/day	ug/L	ug/L	lbs/day	µg/L	lbs/day	ug/L	ug/L	ug/L	lbs/day
1	<0.00002	12	110	<0.20	<0.000003	<1.0	2.2	0.0004	<1.0	<0.00002	2.5	130	<1.0	<0.00002
2														
3														
4														
5														
6														
7														
8	<0.00001	13	130	<0.20	<0.000002	<1.0	2.5	0.00002	<1.0	<0.00001	2.8	130	<1.0	<0.00001
9														
10														
11														
12														
13														
14														
15	<0.0024	12	120	<0.20	<0.0005	<1.0	2.5	0.006	<1.0	<0.0024	2.9	140	<1.0	<0.0024
16														
17														
18														
19														
20														
21														
22	<0.00001			<0.20	<0.000002		2.5	0.00002	<1.0	<0.00001	2.8		<1.0	<0.00001
23														
24														
25														
26														
27														
28														
29														
30														
31														

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PARAMETER	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	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)
CODE	01132	01055	01055	71900	71900	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	1	1	1	1	R	R	1	1	R	R	1D	RD
UNIT	ug/L	ug/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L
1	<8.0	880	0.0147	<0.500	<0.00000001	<0.500	<0.00000001	<0.500	<0.00000001	<0.500	<0.00000001	<0.500	<0.500
2													
3													
4													
5													
6													
7													
8	<8.0	920	0.008	<0.500	<0.000000004	<0.500	<0.000000004	<0.500	<0.000000004	<0.500	<0.000000004	<0.500	<0.500
9													
10													
11													
12													
13													
14													
15	<8.0	930	2.249	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.000001	<0.500	<0.500
16													
17													
18													
19													
20													
21													
22		790	0.007	<0.500	<0.000000004	<0.500	<0.000000004	<0.500	<0.000000004	<0.500	<0.000000004	<0.500	<0.500
23													
24													
25													
26													
27													
28													
29													
30													
31													

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PARAMETER	Mercury (field blank)	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc
CODE	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1D	RD	1D	RD	1	1	1	R	1	1	R	1	1
UNIT	ng/L	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L
1	<0.500	<0.500	<0.500	<0.500	<25	26	0.0004	88	<1.0	<0.0002	<1.0	220	<10
2													
3													
4													
5													
6													
7													
8	<0.500	<0.500	<0.500	<0.500	<25	31	0.0003	92	<1.0	<0.00001	<1.0	230	<10
9													
10													
11													
12													
13													
14													
15	<0.500	<0.500	<0.500	<0.500	<25	32	0.077	95	<1.0	<0.002	<1.0	220	<10
16													
17													
18													
19													
20													
21													
22	<0.500	<0.500	<0.500	<0.500		27	0.0002	83	<1.0	<0.00001	<1.0		<10
23													
24													
25													
26													
27													
28													
29													
30													
31													

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PARAMETER	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	pH Maximum	Dissolved Oxygen
CODE	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
STAGE	1	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	lbs/day	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1	<0.0002					200	200	36.7	240	yes	6.9	7.5	12.03
2								36.6		yes	7.2	7.6	12.72
3								36.6		yes	7.2	7.4	11.56
4								36.7		yes	7.1	7.4	11.64
5								37		yes	7.1	7.4	11.87
6								37.2		yes	7.2	7.5	11.29
7								36.8		yes	7.1	7.5	11.65
8	<0.00008					200	200	37.2	246	yes	7.1	7.4	11.87
9								36.8		yes	7.2	7.4	11.63
10								36.8		yes	7.2	7.4	11.32
11								36.6		yes	7.2	7.4	11.54
12								37.1		yes	7.1	7.4	11.58
13								37.2		yes	6.7	7.3	11.37
14								37.2		yes	7.1	7.3	11.34
15	<0.024					200	200	36.8	246	yes	6.8	7.3	11.06
16								36.6		yes	6.9	7.3	11.38
17		0	0	0	0			36.5		yes	7.0	7.3	11.7
18								36.9		yes	6.8	7.3	11.7
19								36.7		yes	7.0	7.3	11.91
20								36.7		yes	7.0	7.3	12.27
21								37.4		yes	7.0	7.6	11.87
22	<0.00008					200	210	37.4		yes	7.2	7.6	12.15
23								37.2		yes	7.1	7.5	12.07
24								37		yes	7.2	7.5	12.35
25								37.4		yes	7.2	7.5	12.3
26								37		yes	7.0	7.4	12.36
27								36.5		yes	7.1	7.4	12.61
28								36.9		yes	7.1	7.4	11.6
29													
30													
31													

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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
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002
Monitoring Point	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
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
1	0.88	<3.3	<3.3	440	440	<2.0	0.31	0.0144	0.106	7	<2.0	<0.015	3.5	<1.0
2	0.86									9				
3	0.88									1				
4	0.86									1				
5	0.86									14				
6	0.87									10				
7	0.88									6				
8	0.86	<3.3	<3.3	470	460	<2.0	0.33	0.027	0.194	6	<2.0	<0.015	3.3	<1.0
9	0.85									3				
10	0.88									4				
11	0.89									6				
12	0.87									10				
13	0.91									4				
14	0.79									9				
15	0.66	<3.3	<3.3	450	440	<2.0	0.79	<0.0100	<0.055	5	<2.0	<0.011	3.1	<1.0
16	0.65									6				
17	0.92									9				
18	0.97									6				
19	0.96									6				
20	0.94									15				
21	0.69									5				
22	0.98	<3.3	<3.3	460	450			<0.0100	<0.082	5	2.0	0.016		<1.0
23	0.98									6				
24	0.98									8				
25	0.95									18				
26	0.95									8				
27	0.96									11				
28	0.95									16				
29														
30														
31														

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PARAMETER	Total Arsenic	Total Barium	Total Boron	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead
CODE	01002	01007	01022	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	1	1	1	R	1	1	1
UNIT	lbs/day	ug/L	ug/L	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day
1	<0.007	12	110	<0.20	<0.001	<1.0	2.2	0.016	<1.0	<0.007	2.5	130	<1.0	<0.007
2														
3														
4														
5														
6														
7														
8	<0.007	13	130	<0.20	<0.001	<1.0	2.5	0.018	<1.0	<0.007	2.8	130	<1.0	<0.007
9														
10														
11														
12														
13														
14														
15	<0.006	12	120	<0.20	<0.001	<1.0	2.5	0.014	<1.0	<0.006	2.9	140	<1.0	<0.006
16														
17														
18														
19														
20														
21														
22	<0.008			<0.20	<0.002		2.5	0.02	<1.0	<0.008	2.8		<1.0	<0.008
23														
24														
25														
26														
27														
28														
29														
30														
31														

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PARAMETER	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	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)
CODE	01132	01055	01055	71900	71900	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	R	R	1D	1D	RD	RD	1D	RD	1D
UNIT	ug/L	ug/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L
1	<8.0	880	6.46	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.500	<0.500
2														
3														
4														
5														
6														
7														
8	<8.0	920	6.6	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.500	<0.500
9														
10														
11														
12														
13														
14														
15	<8.0	930	5.12	<0.500	0.000003	<0.500	0.000003	<0.500	0.000003	<0.500	0.000003	<0.500	<0.500	<0.500
16														
17														
18														
19														
20														
21														
22		790	6.46	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.500	<0.500
23														
24														
25														
26														
27														
28														
29														
30														
31														



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PARAMETER	Mercury (field blank)	Mercury (laboratory method blank)	Mercury (laboratory method blank)	Total Molybdenu m	Total Nickel	Total Nickel	Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc
CODE	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	RD	1D	RD	1	1	1	R	1	1	R	1	1
UNIT	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L
1	<0.500	<0.500	<0.500	<25	26	0.191	88	<1.0	<0.007	<1.0	220	<10
2												
3												
4												
5												
6												
7												
8	<0.500	<0.500	<0.500	<25	31	0.222	92	<1.0	<0.007	<1.0	230	<10
9												
10												
11												
12												
13												
14												
15	<0.500	<0.500	<0.500	<25	32	0.176	95	<1.0	<0.006	<1.0	220	<10
16												
17												
18												
19												
20												
21												
22	<0.500	<0.500	<0.500		27	0.221	83	<1.0	<0.008	<1.0		<10
23												
24												
25												
26												
27												
28												
29												
30												
31												

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PARAMETER	Total Zinc	Acute Toxicity (ceriodaphnia dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperatur e (F)	Total Hardness	Outfall Observation s	pH Minimum	pH Maximum	Dissolved Oxygen
CODE	01092	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	001A	001A	001A	001A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	lbs/day	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1	<0.073					200	200	36.7	240	yes	6.9	7.5	12.03
2								36.6		yes	7.2	7.6	12.72
3								36.6		yes	7.2	7.4	11.56
4								36.7		yes	7.1	7.4	11.64
5								37		yes	7.1	7.4	11.87
6								37.2		yes	7.2	7.5	11.29
7								36.8		yes	7.1	7.5	11.65
8	<0.072					200	200	37.2	246	yes	7.1	7.4	11.87
9								36.8		yes	7.2	7.4	11.63
10								36.8		yes	7.2	7.4	11.32
11								36.6		yes	7.2	7.4	11.54
12								37.1		yes	7.1	7.4	11.58
13								37.2		yes	6.7	7.3	11.37
14								37.2		yes	7.1	7.3	11.34
15	<0.055					200	200	36.8	246	yes	6.8	7.3	11.06
16								36.6		yes	6.9	7.3	11.38
17		0	0	0	0			36.5		yes	7.0	7.3	11.7
18								36.9		yes	6.8	7.3	11.7
19								36.7		yes	7.0	7.3	11.91
20								36.7		yes	7.0	7.3	12.27
21								37.4		yes	7.0	7.6	11.87
22	<0.082					200	210	37.4		yes	7.2	7.6	12.15
23								37.2		yes	7.1	7.5	12.07
24								37		yes	7.2	7.5	12.35
25								37.4		yes	7.2	7.5	12.3
26								37		yes	7.0	7.4	12.36
27								36.5		yes	7.1	7.4	12.61
28								36.9		yes	7.1	7.4	11.6
29													
30													
31													

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PARAMETER	Flow	Total Suspended Solids	Total Suspended Solids	Total Dissolved Solids	Total Dissolved Solids	Biochemical Oxygen Demand	Ammonia Nitrogen (as N)	Total Phosphorus (as P)	Total Phosphorus (as P)	Total Residual Chlorine	Available Cyanide	Available Cyanide	Total Antimony	Total Arsenic
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002
Monitoring Point	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
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
1	0.00													
2	0.00													
3	0.00													
4	0.00													
5	0.00													
6	0.00													
7	0.00													
8	0.00													
9	0.00													
10	0.00													
11	0.00													
12	0.00													
13	0.00													
14	0.00													
15	0.00													
16	0.00													
17	0.00													
18	0.00													
19	0.00													
20	0.00													
21	0.00													
22	0.00													
23	0.00													
24	0.00													
25	0.00													
26	0.00													
27	0.00													
28	0.00													
29	0.00													
30	0.00													
31	0.00													

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Humboldt Mill WTP Effluent Results - Outfall 003A

PARAMETER	Total Arsenic	Total Barium	Total Boron	Total Cadmium	Total Cadmium	Total Chromium	Total Cobalt	Total Cobalt	Total Copper	Total Copper	Total Copper	Fluoride	Total Lead	Total Lead
CODE	01002	01007	01022	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	1	1	1	R	1	1	1
UNIT	lbs/day	ug/L	ug/L	µg/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day
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PARAMETER	Total Lithium	Total Manganese	Total Manganese	Total Mercury	Total Mercury	Total Mercury	Total Mercury	Mercury (uncorrected sample)	Mercury (uncorrected sample)	Mercury (uncorrected sample)	Mercury (uncorrected sample)	Mercury (field duplicate)	Mercury (field duplicate)	Mercury (field blank)
CODE	01132	01055	01055	71900	71900	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	R	R	1D	1D	RD	RD	1D	RD	1D
UNIT	ug/L	ug/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L
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PARAMETER	Mercury (field blank)	Mercury (laboratory method)	Mercury (laboratory method)	Total Molybdenum	Total Nickel	Total Nickel	Total Nickel	Total Selenium	Total Selenium	Total Selenium	Total Strontium	Total Zinc	Total Zinc	Acute Toxicity (ceriodaph)
CODE	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092	01092	61425
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	RD	1D	RD	1	1	1	R	1	1	R	1	1	1	1
UNIT	ng/L	ng/L	ng/L	ug/L	ug/L	lbs/day	ug/L	ug/L	lbs/day	ug/L	ug/L	ug/L	lbs/day	TUA
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PARAMETER	Acute Toxicity (fathead)	Chronic Toxicity (fathead)	Chronic Toxicity (ceriodaph)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations	pH Minimum	pH Maximum	Dissolved Oxygen
CODE	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	R	1	1	1	1	1	1
UNIT	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
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