

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	0.000													
2	0.000													
3	0.000													
4	0.00													
5	0.000													
6	0.000													
7	0.000													
8	0.000													
9	0.000													
10	0.000													
11	0.000													
12	0.000													
13	0.000													
14	0.000													
15	0.000													
16	0.000													
17	0.000													
18	0.000													
19	0.000													
20	0.000													
21	0.000													
22	0.000													
23	0.000													
24	0.000													
25	0.000													
26	0.000													
27	0.000													
28	0.000													
29	0.000													
30	0.0000													
31	0.000													

January 2016
Humboldt Mill WTP Effluent Results - Outfall 001A

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														
2														
3														
4														
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January 2016
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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													
2													
3													
4													
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January 2016
Humboldt Mill WTP Effluent Results - Outfall 001A

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													
2													
3													
4													
5													
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January 2016
Humboldt Mill WTP Effluent Results - Outfall 001A

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													
2													
3													
4													
5													
6													
7													
8													
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10													
11													
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January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

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	1.17									4				
2	0.89									5				
3	0.88									6				
4	0.86									8				
5	0.83	<3.3	<3.3	430	420	<0.87	0.20	<0.010	<0.069	9	<2.0	<0.014	2.4	<1.0
6	0.85									4				
7	0.80									8				
8	0.85									2				
9	0.88									8				
10	0.75									4				
11	0.86									4				
12	0.81	<3.3	<3.3	420	410	<0.58	0.26	<0.010	<0.067	6	<2.0	<0.014	2.5	1.4
13	0.76									2				
14	0.83									7				
15	0.83									3				
16	0.88									3				
17	0.91									31				
18	0.76									30				
19	0.75	<3.3	<3.3	440	420		0.26	<0.010	<0.063	4	<2.0	<0.013		1.2
20	0.84									5			2.7	
21	0.90									6				
22	0.90									9				
23	0.85									7				
24	0.82									2				
25	0.88									5				
26	0.84	<3.3	<3.3	450	420		0.16	<0.010	<0.07	2	2.3	0.016		1.7
27	0.70									6				
28	0.81									20				
29	0.83									10				
30	0.85									4				
31	0.82									4				

January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

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														
2														
3														
4														
5	<0.007	10	105	<0.20	<0.001	<1.0	1.5	0.01	<1.0	<0.007	2.9	136	<1.0	<0.007
6														
7														
8														
9														
10														
11														
12	0.009	9.7	93.3	<0.20	<0.001	<1.0	1.4	0.009	2.2	0.015	3.0	134	<1.0	<0.007
13														
14														
15														
16														
17														
18														
19	0.008			<0.20	<0.001		1.5	0.009	<1.0	0.006	2.0	0.13	<1.0	<0.006
20		9.7	97.1			<1.0								
21														
22														
23														
24														
25														
26	0.012			<0.20	<0.001		1.4	0.01	<1.0	<0.007	1.7	0.13	<1.0	<0.007
27														
28														
29														
30														
31														

January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

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	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
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													
2													
3													
4													
5	<8.0	416	2.88	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003
6													
7													
8													
9													
10													
11													
12	<8.0	371	2.51	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003
13													
14													
15													
16													
17													
18													
19		373	2.33	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003
20	<8.0												
21													
22													
23													
24													
25													
26		348	2.44	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004
27													
28													
29													
30													
31													

January 2016
Humboldt Mill WTP Effluent Results - Outfall 002A

PARAMETER	Mercury (field blank)	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	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	002A
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													
2													
3													
4													
5	<0.500	<0.500	<0.500	<0.500	<25	9.6	0.066	66	<1.0	<0.007	<1.0	174	<10
6													
7													
8													
9													
10													
11													
12	<0.500	<0.500	<0.500	<0.500	<25	7.8	0.053	75.0	<1.0	<0.007	<1.0	177	<10
13													
14													
15													
16													
17													
18													
19	<0.500	<0.500	<0.500	<0.500		7.8	0.049	69.1	<1.0	<0.006	<1.0		<10
20					<25							187	
21													
22													
23													
24													
25													
26	<0.500	<0.500	<0.500	<0.500		6.8	0.048	58.6	<1.0	<0.007	<1.0		<10
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								64.4		yes	7.3	8.2	8.72
2								65.6		yes	7.6	8.3	8.73
3								65.4		yes	7.6	8.2	8.62
4								65.6		yes	7.9	8.3	8.93
5	<0.07					187	189	68.7	228	yes	7.8	8.2	8.46
6								68.5		yes	7.3	8.2	9.12
7								68.3		yes	7.5	8.2	8.72
8								65.6		yes	7.8	8.2	8.9
9								68.6		yes	7.4	8.1	8.46
10								68.3		yes	7.6	8.2	8.44
11								68.3		yes	7.9	8.4	8.78
12	<0.07					195	196	68.6	224	yes	7.8	8.4	8.66
13								67.8		yes	7.8	8.2	8.65
14								66.7		yes	7.5	8.0	8.82
15								67.2		yes	7.4	8.1	8.59
16								66.3		yes	7.2	8.1	9.09
17								67.4		yes	7.5	8.2	9.45
18								70		yes	7.9	8.2	9.18
19	<0.06					184	183	68.9		yes	8.0	8.4	9.27
20		0	0	0	0			68.7		yes	7.8	8.2	9.36
21								69.5		yes	7.4	8.3	8.98
22								69.7		yes	7.4	8.2	9.01
23								70.9		yes	7.1	8.2	8.99
24								68.4		yes	7.5	8.3	9.9
25								68.4		yes	7.6	8.2	9.78
26	<0.07					186	189	69.2		yes	7.8	8.2	9.66
27								69.4		yes	7.5	8.2	9.85
28								69.8		yes	7.8	8.2	9.75
29								70		yes	7.8	8.2	9.44
30								70.6		yes	7.5	8.2	9.93
31								69.7		yes	7.4	8.1	9.76

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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	0.15									4				
2	0.31									5				
3	0.37									6				
4	0.37									8				
5	0.37	<3.3	<3.3	430	420	<0.87	0.2	<0.010	<0.03	9	<2.0	<0.006	2.4	<1.0
6	0.37									4				
7	0.34									8				
8	0.38									2				
9	0.38									8				
10	0.37									4				
11	0.37									4				
12	0.37	<3.3	<3.3	420	410	<0.58	0.26	<0.010	<0.03	6	<2.0	<0.006	2.5	1.4
13	0.36									2				
14	0.37									7				
15	0.37									3				
16	0.37									3				
17	0.36									31				
18	0.32									30				
19	0.37	<3.3	<3.3	440	420		0.26	<0.010	<0.03	4	<2.0	<0.006		1.2
20	0.84									5			2.7	
21	0.38									6				
22	0.37									9				
23	0.38									7				
24	0.35									2				
25	0.37									5				
26	0.38	<3.3	<3.3	450	420		0.16	<0.010	<0.03	2	2.3	0.007		1.7
27	0.37									6				
28	0.37									20				
29	0.37									10				
30	0.38									4				
31	0.36									4				

January 2016
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
1														
2														
3														
4														
5	<0.003	10	105	<0.20	<0.0006	<1.0	1.5	0.005	<1.0	<0.003	2.9	136	<1.0	<0.003
6														
7														
8														
9														
10														
11														
12	0.004	9.7	93.3	<0.20	<0.0006	<1.0	1.4	0.004	2.2	0.007	3	134	<1.0	<0.003
13														
14														
15														
16														
17														
18														
19	0.004			<0.20	<0.0006		1.5	0.005	<1.0	<0.003	2	130	<1.0	<0.003
20		9.7	97.1			<1.0								
21														
22														
23														
24														
25														
26	0.005			<0.20	<0.0006		1.4	0.004	<1.0	<0.003	1.7	130	<1.0	<0.003
27														
28														
29														
30														
31														

January 2016
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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
1														
2														
3														
4														
5	<8.0	416	1.28	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500
6														
7														
8														
9														
10														
11														
12	<8.0	371	1.14	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500
13														
14														
15														
16														
17														
18														
19		373	1.15	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500
20	<8.0													
21														
22														
23														
24														
25														
26		348	1.10	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500
27														
28														
29														
30														
31														

January 2016
Humboldt Mill WTP Effluent Results - Outfall 003A

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
1														
2														
3														
4														
5	<0.500	<0.500	<0.500	<25	9.6	0.03	66	<1.0	<0.003	<1.0	174	<10	<0.031	
6														
7														
8														
9														
10														
11														
12	<0.500	<0.500	<0.500	<25	7.8	0.02	75	<1.0	<0.003	<1.0	177	<10	<0.031	
13														
14														
15														
16														
17														
18														
19	<0.500	<0.500	<0.500		7.8	0.02	69.1	<1.0	<0.003	<1.0		<10	<0.031	
20				<25							187			0
21														
22														
23														
24														
25														
26	<0.500	<0.500	<0.500		6.8	0.02	58.6	<1.0	<0.003	<1.0		<10	<0.031	
27														
28														
29														
30														
31														

January 2016
Humboldt Mill WTP Effluent Results - Outfall 003A

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
1						64		yes	7.321	8.2	8.72
2						66		yes	7.59	8.3	8.73
3						65		yes	7.6	8.2	8.62
4						66		yes	7.85	8.3	8.93
5				187	189	69	228	yes	7.8	8.2	8.46
6						68.5		yes	7.323	8.2	9.12
7						68.3		yes	7.481	8.2	8.72
8						65.6		yes	7.76	8.2	8.90
9						68.6		yes	7.42	8.1	8.46
10						68.3		yes	7.58	8.2	8.44
11						68.3		yes	7.85	8.4	8.78
12				195	196	68.6	224	yes	7.76	8.4	8.66
13						67.8		yes	7.78	8.2	8.65
14						66.7		yes	7.463	8.045	8.82
15						67.2		yes	7.429	8.122	8.59
16						66.3		yes	7.23	8.122	9.09
17						67.4		yes	7.532	8.155	9.45
18						70		yes	7.93	8.23	9.18
19				184	183	68.9		yes	7.97	8.39	9.27
20	0	0	0			68.7		yes	7.76	8.20	9.36
21						69.5		yes	7.39	8.3	8.98
22						69.7		yes	7.35	8.16	9.01
23						70.9		yes	7.08	8.22	8.99
24						68.4		yes	7.51	8.25	9.9
25						68.4		yes	7.61	8.16	9.78
26				186	189	69.2		yes	7.79	8.19	9.66
27						69.4		yes	7.51	8.16	9.85
28						69.8		yes	7.77	8.18	9.75
29						70		yes	7.79	8.23	9.44
30						70.6		yes	7.535	8.168	9.93
31						69.7		yes	7.442	8.141	9.76