

September 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													
2	0													
3	0													
4	0													
5	0													
6	0													
7	0													
8	0													
9	0													
10	0													
11	0													
12	0													
13	0													
14	0													
15	0													
16	0													
17	0													
18	0													
19	0													
20	0													
21	0													
22	0													
23	0													
24	0													
25	0													
26	0													
27	0													
28	0													
29	0													
30	0													
31	0													

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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														
2														
3														
4														
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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	001A	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	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														
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PARAMETER	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	Total Zinc	Acute Toxicity (ceriodaphnia dubia)
CODE	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092	01092	61425
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
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														
6														
7														
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9														
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PARAMETER	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	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A	001A
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											
2											
3											
4											
5											
6											
7											
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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	Total Arsenic
CODE	50050	00530	00530	70295	70295	00310	00610	00665	00665	50060	01257	01257	01097	01002	01002
Monitoring Point	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
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
1	0.0005									1					
2	0.0005									2					
3	0.0005									3					
4	0.0005									4					
5	0.0005									4					
6	0.0005									3					
7	0.0005									3					
8	0.0005	8.7	<3.3	440	420	<2.0	0.13	<0.0100	<0.00004	6	<2.0	<0.00001	3.8	<1.0	<0.00004
9	0.0005									4					
10	0.0005									5					
11	0.0005									5					
12	0.0005									5					
13	0.0005									6					
14	0.0005	<3.3	<3.3	420	450	<2.0	0.13	<0.0100	<0.00004	8	<2.0	<0.00001	3.2	<1.0	<0.00004
15	0.0005									8					
16	0.0005									12					
17	0.37									8					
18	0.52									3					
19	0.24									5					
20	0.008									9					
21	0.003	<3.3	<3.3	410	420			<0.0100	<0.0003	2	<2.0	<0.0001		<1.0	<0.00003
22	0.1									6					
23	0.43									6					
24	0.33									3					
25	0.62									4					
26	0.48									4					
27	0.56									2					
28	0.49	<3.3	<3.3	460	450			0.0118	0.046	7	<2.0	<0.008		<1.0	<0.004
29	0.60									4					
30	0.62									5					

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PARAMETER	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	Total Lithium	Total Manganese
CODE	01007	01022	01027	01027	01034	01037	01037	01042	01042	01042	00951	01051	01051	01132	01055
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	1	1	1	1	R	1	1	1	1	1
UNIT	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	ug/L	ug/L
1															
2															
3															
4															
5															
6															
7															
8	8.7	86	<0.20	<0.0002	<1.0	1.5	0.000006	<1.0	<0.000004	1.2	170	<1.0	<0.00004	<8.0	220
9															
10															
11															
12															
13															
14	7.9	110	<0.20	<0.0002	<1.0	1.6	0.000007	<1.0	<0.000004	<1.0	160	<1.0	<0.00004	<8.0	280
15															
16															
17															
18															
19															
20															
21			<0.20	<0.00001		1.7	0.00004	<1.0	<0.00003	2.1		<1.0	<0.00003		280
22															
23															
24															
25															
26															
27															
28			<0.20	<0.0008		1.7	0.007	<1.0	<0.004	1.6		<1.0	<0.004		290
29															
30															

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PARAMETER	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)	Mercury (field blank)
CODE	01055	71900	71900	71900	71900	7190a	7190a	7190a	7190a	7190b	7190b	7190c	7190c
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	R	R	1D	1D	RD	RD	1D	RD	1D	RD
UNIT	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	lbs/day	ng/L	ng/L	ng/L	ng/L
1													
2													
3													
4													
5													
6													
7													
8	<b>0.001</b>	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500	<0.500	<0.500
9													
10													
11													
12													
13													
14	<b>0.001</b>	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500	<0.500	<0.500
15													
16													
17													
18													
19													
20													
21	<b>0.007</b>	<0.500	<0.000000001	<0.500	<0.000000001	<0.500	<0.000000001	<0.500	<0.000000001	<0.500	<0.500	<0.500	<0.500
22													
23													
24													
25													
26													
27													
28	<b>1.185</b>	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.500	<0.500	<0.500
29													
30													



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PARAMETER	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	Total Zinc	Acute Toxicity (ceriodaphni a dubia)	Acute Toxicity (fathead minnow)	Chronic Toxicity (fathead minnow)
CODE	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092	01092	61425	TS16C	TTK6C
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1D	RD	1	1	1	R	1	1	R	1	1	1	1	1	1
UNIT	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	TUA	TUC
1															
2															
3															
4															
5															
6															
7															
8	<0.500	<0.500	<25	2.1	0.000009	43	<1.0	<0.000004	<1.0	180	<10	<0.00004			
9															
10															
11															
12															
13															
14	<0.500	<0.500	<25	3.8	0.00002	51	<1.0	<0.000004	<1.0	190	<10	<0.00004			
15															
16															
17															
18															
19															
20															
21	<0.500	<0.500		3.1	0.00008	54	<1.0	<0.00003	<1.0		<10	<0.0003			
22													0	0	0
23															
24															
25															
26															
27															
28	<0.500	<0.500		2.9	0.012	51	<1.0	<0.004	<1.0		<10	<0.004			
29															
30															

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PARAMETER	Chronic Toxicity (ceriodaphnia dubia)	Sulfate	Sulfate	Temperature (F)	Total Hardness	Outfall Observations	pH Minimum	pH Maximum	Dissolved Oxygen
CODE	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	R	1	1	1	1	1	1
UNIT	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1				68		Yes	*E	7.9	8.52
2				67		Yes	*E	7.7	8.69
3				68		Yes	*E	7.8	8.77
4				67		Yes	*E	7.8	8.68
5				68		Yes	*E	7.8	8.68
6				67		Yes	*E	7.8	8.62
7				67		Yes	*E	7.8	8.57
8		170	170	67	224	Yes	*E	7.8	8.57
9				68		Yes	*E	7.6	8.58
10				67		Yes	*E	7.8	8.57
11				66		Yes	*E	7.8	8.93
12				66		Yes	*E	7.7	8.70
13				66		Yes	*E	7.9	8.66
14		170	160	64	224	Yes	*E	7.9	8.81
15				65		Yes	*E	7.8	8.76
16				65		Yes	*E	7.8	8.72
17				64		Yes	*E	7.8	8.87
18				64		Yes	*E	7.8	8.96
19				65		Yes	*E	7.8	8.62
20				65		Yes	*E	7.8	8.79
21		160	160	64		Yes	*E	7.8	8.94
22	0			63		Yes	*E	7.9	8.88
23				61		Yes	*E	7.8	8.93
24				60		Yes	*E	7.8	8.70
25				61		Yes	*E	7.9	8.70
26				62		Yes	*E	7.8	9.02
27				61		Yes	*E	7.8	9.00
28		160	160	60		Yes	*E	7.8	9.16
29				59		Yes	*E	7.8	9.39
30				58		Yes	*E	7.7	9.52

flow	cl2
470	0.00047
470	0.00047
480	0.00048
490	0.00049
510	0.00051
510	0.00051
510	0.00051
500	0.0005
500	0.0005
500	0.0005
520	0.00052
520	0.00052
500	0.0005
490	0.00049
490	0.00049
490	0.00049
365610	0.37
517960	0.52
243390	0.24
7620	0.008
2740	0.003
95920	0.10
429460	0.43
330070	0.33
619050	0.62
481590	0.48
561680	0.56
488560	0.49
603130	0.60
624180	0.62

0.001
0.002
0.003
0.004
0.004
0.003
0.003
0.006
0.004
0.005
0.005
0.005
0.006
0.008
0.008
0.012
0.008
0.003
0.005
0.009
0.002
0.006
0.006
0.003
0.004
0.004
0.002
0.007
0.004
0.005

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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	0.78									1				
2	0.82									2				
3	0.72									3				
4	0.58									4				
5	0.81									4				
6	0.80									3				
7	0.79									3				
8	0.85	<b>8.7</b>	<3.3	<b>440</b>	<b>420</b>	<2.0	<b>0.13</b>	<0.0100	<0.071	6	<2.0	<0.014	<b>3.8</b>	<1.0
9	0.87									4				
10	0.88									5				
11	0.88									5				
12	0.88									5				
13	0.94									6				
14	0.91	<3.3	<3.3	<b>420</b>	<b>450</b>	<2.0	<b>0.13</b>	<0.0100	<0.076	8	<2.0	<0.015	<b>3.2</b>	<1.0
15	0.92									8				
16	0.94									12				
17	0.64									8				
18	0.46									3				
19	0.74									5				
20	0.95									9				
21	0.96	<3.3	<3.3	<b>410</b>	<b>420</b>			<0.0100	<0.08	2	<2.0	<0.016		<1.0
22	0.82									6				
23	0.56									6				
24	0.68									3				
25	0.40									4				
26	0.53									4				
27	0.42									2				
28	0.38	<3.3	<3.3	<b>460</b>	<b>450</b>			<b>0.0118</b>	<b>0.037</b>	7	<2.0	<0.006		<1.0
29	0.43									4				
30	0.43									5				

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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														
2														
3														
4														
5														
6														
7														
8	<0.007	8.7	86	<0.20	<0.0014	<1.0	1.5	0.011	<1.0	<0.0071	1.2	170	<1.0	<0.007
9														
10														
11														
12														
13														
14	<0.008	7.9	110	<0.20	<0.002	<1.0	1.6	0.012	<1.0	<0.008	<1.0	160	<1.0	<0.008
15														
16														
17														
18														
19														
20														
21	<0.008			<0.20	<0.002		1.7	0.014	<1.0	<0.008	2.1		<1.0	<0.008
22														
23														
24														
25														
26														
27														
28	<0.003			<0.20	<0.0006		1.7	0.005	<1.0	<0.003	1.6		<1.0	<0.003
29														
30														

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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														
2														
3														
4														
5														
6														
7														
8	<8.0	220	1.56	<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	<8.0	280	2.13	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.500	<0.500
15														
16														
17														
18														
19														
20														
21		280	2.24	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.000004	<0.500	<0.500	<0.500
22														
23														
24														
25														
26														
27														
28		290	0.92	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.000002	<0.500	<0.500	<0.500
29														
30														

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PARAMETER	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	Total Zinc	Acute Toxicity (ceriodaphnia dubia)
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														
6														
7														
8	<0.500	<0.500	<0.500	<25	2.1	0.015	43	<1.0	<0.007	<1.0	180	<10	<0.071	
9														
10														
11														
12														
13														
14	<0.500	<0.500	<0.500	<25	3.8	0.029	51	<1.0	<0.008	<1.0	190	<10	<0.076	
15														
16														
17														
18														
19														
20														
21	<0.500	<0.500	<0.500		3.1	0.025	54	<1.0	<0.008	<1.0		<10	<0.080	
22														0
23														
24														
25														
26														
27														
28	<0.500	<0.500	<0.500		2.9	0.009	51	<1.0	<0.003	<1.0		<10	<0.032	
29														
30														

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PARAMETER	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	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						68		Yes	*E	7.9	8.52
2						67		Yes	*E	7.7	8.69
3						68		Yes	*E	7.8	8.77
4						67		Yes	*E	7.8	8.68
5						68		Yes	*E	7.8	8.68
6						67		Yes	*E	7.8	8.62
7						67		Yes	*E	7.8	8.57
8				170	170	67	224	Yes	*E	7.8	8.57
9						68		Yes	*E	7.6	8.58
10						67		Yes	*E	7.8	8.57
11						66		Yes	*E	7.8	8.93
12						66		Yes	*E	7.7	8.70
13						66		Yes	*E	7.9	8.66
14				170	160	64	224	Yes	*E	7.9	8.81
15						65		Yes	*E	7.8	8.76
16						65		Yes	*E	7.8	8.72
17						64		Yes	*E	7.8	8.87
18						64		Yes	*E	7.8	8.96
19						65		Yes	*E	7.8	8.62
20						65		Yes	*E	7.8	8.79
21				160	160	64		Yes	*E	7.8	8.94
22	0	0	0			63		Yes	*E	7.9	8.88
23						61		Yes	*E	7.8	8.93
24						60		Yes	*E	7.8	8.70
25						61		Yes	*E	7.9	8.70
26						62		Yes	*E	7.8	9.02
27						61		Yes	*E	7.8	9.00
28				160	160	60		Yes	*E	7.8	9.16
29						59		Yes	*E	7.8	9.39
30						58		Yes	*E	7.7	9.52