

August 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													
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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														
5														
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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														
8														
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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											
8											
9											
10											
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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	0.00051									6				
2	0.00052									5				
3	0.00053	<3.3	<3.3	250	330	<2.0	0.066	<0.0100	<0.00004	4	<2.0	<0.000008	2.8	<1.0
4	0.00052									3				
5	0.00051									7				
6	0.00052									1				
7	0.00048									2				
8	0.00049									4				
9	0.00052									4				
10	0.00052	<3.3	<3.3	400	480	<2.0	0.17	0.0231	0.0001	4	<2.0	<0.000008	3.1	<1.0
11	0.00051									3				
12	0.00051									2				
13	0.00051									1				
14	0.0005									5				
15	0.0005									4				
16	0.0005									5				
17	0.00052									3				<1.0
18	0.00053	<3.3	<3.3	550	480			<0.0100	<0.00004	5	<2.0	<0.000008		
19	0.00052									4				
20	0.0005									3				
21	0.00049									8				
22	0.00046									3				
23	0.00051									4				
24	0.00051	<3.3	<3.3	460	460			<0.0100	<0.00004	2	<2.0	<0.000008		<1.0
25	0.00051									5				
26	0.00048									4				
27	0.00048									5				
28	0.00052									5				
29	0.00051									7				
30	0.00053									6				
31	0.000516	<3.3	<3.3	430	420			<0.0100	<0.00004	4	<2.0	<0.000008		<1.0

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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	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	<0.000004	6.8	83	<0.20	<0.000001	<1.0	1.4	0.000006	<1.0	<0.00004	1.4	<100	<1.0	<0.000004
4														
5														
6														
7														
8														
9														
10	<0.000004	7	86	<0.20	<0.000001	<1.0	1.4	0.000006	<1.0	<0.00004	1.2	130	<1.0	<0.000004
11														
12														
13														
14														
15														
16														
17	<0.000004			<0.20	<0.000001		1.8	0.000008	<1.0	<0.00004	1.3		<1.0	<0.000004
18														
19														
20														
21														
22														
23														
24	<0.000004			<0.20	<0.000001		1.9	0.000008	<1.0	<0.00004	1.6		<1.0	<0.000004
25														
26														
27														
28														
29														
30														
31	<0.000004			<0.20	<0.000001		1.6	0.000007	<1.0	<0.00004	1.5		<1.0	<0.000004

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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	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	<8.0	290	0.0012	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500
4													
5													
6													
7													
8													
9													
10	<8.0	220	0.0009	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500
11													
12													
13													
14													
15													
16													
17		240	0.001	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500
18													
19													
20													
21													
22													
23													
24		250	0.001	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500
25													
26													
27													
28													
29													
30													
31		220	0.0009	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.000000002	<0.500	<0.500

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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	Total Zinc
CODE	7190c	7190c	7190d	7190d	01062	01067	01067	01067	01147	01147	01147	01082	01092	01092
Monitoring Point	002A	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	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	lbs/day
1														
2														
3	<0.500	<0.500	<0.500	<0.500	<25	3.4	0.000014	50	1.9	0.000008	1.2	160	<10	<0.000008
4														
5														
6														
7														
8														
9														
10	<0.500	<0.500	<0.500	<0.500	<25	<2.0	<0.000008	43	<1.0	<0.000004	<1.0	170	<10	<0.000008
11														
12														
13														
14														
15														
16														
17	<0.500	<0.500	<0.500	<0.500		<2.0	<0.000008	46	<1.0	<0.000004	<1.0		<10	<0.000008
18														
19														
20														
21														
22														
23														
24	<0.500	<0.500	<0.500	<0.500		2.6	0.000011	51	<1.0	<0.000004	<1.0		<10	<0.000008
25														
26														
27														
28														
29														
30														
31	<0.500	<0.500	<0.500	<0.500		<2.0	<0.000008	47	<1.0	<0.000004	<1.0		<10	<0.000008

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PARAMETER	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	61425	TS16C	TTK6C	03599	00945	00945	00011	00900	84130	00400	00400	00300
Monitoring Point	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A	002A
STAGE	1	1	1	1	1	R	1	1	1	1	1	1
UNIT	TUA	TUA	TUC	TUC	mg/L	mg/L	F	mg/L	yes/no	S.U.	S.U.	mg/L
1							73		yes	*E	7.8	8.81
2							76		yes	*E	7.8	8.48
3					130	170	75	174	yes	*E	7.8	8.39
4							74		yes	*E	7.8	8.48
5							75		yes	*E	7.9	8.04
6							73		yes	*E	7.9	8.15
7							72		yes	*E	7.9	8.38
8							73		yes	*E	7.9	8.49
9							75		yes	*E	7.9	8.08
10					140	170	74	188	yes	*E	7.6	8.28
11							73		yes	*E	7.6	8.48
12							73		yes	*E	7.7	8.47
13							72		yes	*E	7.6	8.18
14							71		yes	*E	7.8	8.28
15							71		yes	*E	7.8	8.34
16							71		yes	*E	7.9	8.44
17							71		yes	*E	7.8	8.79
18	0	0	1	0	170	170	72		yes	*E	7.9	8.45
19							73		yes	*E	7.9	8.22
20							72		yes	*E	7.8	8.55
21							69		yes	*E	7.8	8.40
22							66		yes	*E	7.9	9.54
23							69		yes	*E	7.8	9.81
24					160	160	70		yes	*E	8.3	10.03
25							70		yes	*E	7.7	10.03
26							71		yes	*E	7.8	10.07
27							69		yes	*E	7.8	10.08
28							69		yes	*E	7.7	10.07
29							67		yes	*E	7.9	8.56
30							70		yes	*E	7.9	8.45
31					170	160	69		yes	*E	7.8	8.50

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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	0.66									6				
2	0.69									5				
3	0.69	<3.3	<3.3	250	330	<2.0	0.066	<0.0100	<0.0575	4	<2.0	<0.0115	2.8	<1.0
4	0.69									3				
5	0.67									7				
6	0.65									1				
7	0.66									2				
8	0.69									4				
9	0.68									4				
10	0.68	<3.3	<3.3	400	480	<2.0	0.17	0.023	0.131	4	<2.0	<0.0113	3.1	<1.0
11	0.67									3				
12	0.69									2				
13	0.65									1				
14	0.74									5				
15	0.72									4				
16	0.71									5				
17	0.68									3				<1.0
18	0.69	<3.3	<3.3	550	480			<0.0100	<0.0575	5	<2.0	<0.0115		
19	0.69									4				
20	0.69									3				
21	0.68									8				
22	0.69									3				
23	0.70									4				
24	0.68	<3.3	<3.3	460	460			<0.0100	<0.0567	2	<2.0	<0.0113		<1.0
25	0.68									5				
26	0.68									4				
27	0.68									5				
28	0.71									5				
29	0.71									7				
30	0.72									6				
31	0.74	<3.3	<3.3	430	420			<0.0100	<0.617	4	<2.0	<0.0123		<1.0

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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	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	<0.0058	6.8	83	<0.20	<0.0012	<1.0	1.4	0.008	<1.0	<0.0058	1.4	<100	<1.0	<0.0058
4														
5														
6														
7														
8														
9														
10	<0.0057	7	86	<0.20	<0.0011	<1.0	1.4	0.008	<1.0	<0.0057	1.2	130	<1.0	<0.0057
11														
12														
13														
14														
15														
16														
17	<0.0057			<0.20	<0.0011		1.8	0.010	<1.0	<0.0057	1.3		<1.0	<0.0057
18														
19														
20														
21														
22														
23														
24	<0.0057			<0.20	<0.0011		1.9	0.011	<1.0	<0.0057	1.6		<1.0	<0.0057
25														
26														
27														
28														
29														
30														
31	<0.0062			<0.20	<0.00123		1.6	0.010	<1.0	<0.0062	1.5		<1.0	<0.0062

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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	<8.0	290	1.669	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.500	<0.500
4														
5														
6														
7														
8														
9														
10	<8.0	220	1.248	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.500	<0.500
11														
12														
13														
14														
15														
16														
17		240	1.361	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.500	<0.500
18														
19														
20														
21														
22														
23														
24		250	1.418	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.500	<0.500
25														
26														
27														
28														
29														
30														
31		220	1.358	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.000003	<0.500	<0.500	<0.500

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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	<0.500	<0.500	<0.500	<25	3.4	0.020	50	1.9	0.011	1.2	160	<10	<0.0575	
4														
5														
6														
7														
8														
9														
10	<0.500	<0.500	<0.500	<25	<2.0	<0.0113	43	<1.0	<0.0057	<1.0	170	<10	<0.0567	
11														
12														
13														
14														
15														
16														
17	<0.500	<0.500	<0.500		<2.0	<0.0113	46	<1.0	<0.0057	<1.0		<10	<0.0567	0
18														
19														
20														
21														
22														
23														
24	<0.500	<0.500	<0.500		2.6	0.015	51	<1.0	<0.0057	<1.0		<10	<0.0567	
25														
26														
27														
28														
29														
30														
31	<0.500	<0.500	<0.500		<2.0	<0.0123	47	<1.0	<0.0062	<1.0		<10	<0.0617	

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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						73		yes	*E	7.8	8.81
2						76		yes	*E	7.8	8.48
3				130	170	75	174	yes	*E	7.8	8.39
4						74		yes	*E	7.8	8.48
5						75		yes	*E	7.9	8.04
6						73		yes	*E	7.9	8.15
7						72		yes	*E	7.9	8.38
8						73		yes	*E	7.9	8.49
9						75		yes	*E	7.9	8.08
10				140	170	74	188	yes	*E	7.6	8.28
11						73		yes	*E	7.6	8.48
12						73		yes	*E	7.7	8.47
13						72		yes	*E	7.6	8.18
14						71		yes	*E	7.8	8.28
15						71		yes	*E	7.8	8.34
16						71		yes	*E	7.9	8.44
17						71		yes	*E	7.8	8.79
18	0	1	0	170	170	72		yes	*E	7.9	8.45
19						73		yes	*E	7.9	8.22
20						72		yes	*E	7.8	8.55
21						69		yes	*E	7.8	8.40
22						66		yes	*E	7.9	9.54
23						69		yes	*E	7.8	9.81
24				160	160	70		yes	*E	8.3	10.03
25						70		yes	*E	7.7	10.03
26						71		yes	*E	7.8	10.07
27						69		yes	*E	7.8	10.08
28						69		yes	*E	7.7	10.07
29						67		yes	*E	7.9	8.56
30						70		yes	*E	7.9	8.45
31				170	160	69		yes	*E	7.8	8.50