





### Attachment E4 Boherbue Inlet Table E4

Sample Date	19/01/2006	10/08/2006	04/03/2009	07/04/2009	07/05/2009	19/05/2009	Average
Sample	Influent	Influent	Influent	Influent	Influent	Influent	
Sample Code					GT626	GT777	
Flow M <sup>3</sup> /Day	*	*	*	*	*	*	
pH	7.1	7.9	7.7	7.4	7.7	7.5	7.55
Temperature °C	*	*	*	*	*	*	
Cond 20°C	427	800	1232	599	668	588	719
SS mg/L	34	28	120	15	101	99	66.16666667
NH <sub>3</sub> mg/L	6	27	21.8	10.5	24.3	9.4	16.5
BOD mg/L	100	103	65	69	182	243	127
COD mg/L	108	240	200	137	275	888	308
TN mg/L	*	*	23	16	35.8	26.6	25.35
Nitrite mg/L	*	*	*	*	0.25	*	0.25
Nitrate mg/L	*	*	*	*	3.21	*	3.21
TP mg/L	3	17	1.9	3.1	3.88	4.8	5.613333333
O-PO4-P mg/L	1	11	1.7	1.3	2.12	1.8	3.153333333
SO4 mg/L	*	*	*	*	32	*	32
Phenols µg/L	*	*	*	*	<0.10	*	<0.10
Atrazine µg/L	*	*	*	*	<0.01	*	<0.01
Dichloromethane µg/L	*	*	*	*	<1	*	<1
Simazine µg/L	*	*	*	*	<0.01	*	<0.01
Toluene µg/L	*	*	*	*	<0.28	*	<0.28
Tributyltin µg/L	*	*	*	*	not required	*	not required
Xylenes µg/L	*	*	*	*	<1	*	<1
Arsenic µg/L	*	*	*	*	<0.96	*	<0.96
Chromium µg/L	*	*	*	*	<20	<20	<20
Copper µg/L	*	*	*	*	33	23.9	28.45
Cyanide µg/L	*	*	*	*	<5	*	<5
Fluoride µg/L	*	*	*	*	200	*	200
Lead µg/L	*	*	*	*	<20	<20	<20
Nickel µg/L	*	*	*	*	<20	<20	<20
Zinc µg/L	*	*	*	*	37	49.6	43.3
Boron µg/L	*	*	*	*	10	115	62.5
Cadmium µg/L	*	*	*	*	<20	<20	<20
Mercury µg/L	*	*	*	*	0.2	*	0.2
Selenium µg/L	*	*	*	*	1	*	1
Barium µg/L	*	*	*	*	<20	<20	<20

value at 1/2 of LOD for stistical purposes =

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### Attachment E4 Boherbue Discharge Outlet Table E4

Sample Date	19/01/2006	10/08/2006	13/11/2008	18/12/2008	04/03/2009	12/03/2009	07/04/2009	07/05/2009	19/05/2009	Average	Kg/Day	Kg/year
Sample	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent			
Sample Code			GS1213	GS1413	GT377	GT377	GT483	GT627	GT778			
Flow M <sup>3</sup> /Day	*	*	*	*	*	*	*	*	*			
pH	7.3	7.5	*	*	7.5	7.1	7.5	7.3	7.3	7.357143		
Temperature °C	*	*	*	*	*	*	*	*	*			
Cond 20°C	348	634	*	*	494	*	494	326	386	447		
SS mg/L	4	8	8	22	4	22	4	1.25	4	8.583333		
NH <sub>3</sub> mg/L	2	3	*	*	5.3	*	5.3	0.6	0.28	2.746667		
BOD mg/L	2	4	2.89	24.8	<2	35	<2	3.4	2.7	10.68429		
COD mg/L	30	38	26	60	16	65	16	10.5	43	33.83333		
TN mg/L	*	*	*	*	7	8.2	7	0.79	2.29	5.056		
Nitrite mg/L	*	*	*	*	*	*	*	<0.10	*	<0.10		
Nitrate mg/L	*	*	*	*	*	*	*	0.66	*	0.66		
TP mg/L	3	9	*	*	1.9	0.9	1.9	1.64	1.6	2.848571		
O-PO4-P mg/L	2	8	*	*	1.9	*	1.9	1.37	1.5	2.778333		
SO4 mg/L	*	*	*	*	*	*	*	<30	*	<30		
Phenols µg/L	*	*	*	*	*	*	*	<0.10	*	<0.10		
Atrazine µg/L	*	*	*	*	*	*	*	<0.01	*	<0.01		
Dichloromethane	*	*	*	*	*	*	*	<1	*	<1		
Simazine µg/L	*	*	*	*	*	*	*	<0.01	*	<0.01		
Toluene µg/L	*	*	*	*	*	*	*	<0.28	*	<0.28		
Tributyltin µg/L	*	*	*	*	*	*	*	Not required	*			
Xylenes µg/L	*	*	*	*	*	*	*	<1	*	<1		
Arsenic µg/L	*	*	*	*	*	*	*	<0.96	*	<0.96		
Chromium ug/L	*	*	*	<20	<20	<20	<20	<20	<20	<20		
Copper ug/L	*	*	*	<20	<20	<20	<20	<20	<20	<20		
Cyanide µg/L	*	*	*	*	*	*	*	<5	*	<5		
Fluoride µg/L	*	*	*	*	*	*	*	171	*	171		
Lead ug/L	*	*	*	<20	<20	<20	<20	<20	<20	<20		
Nickel ug/L	*	*	*	<20	<20	<20	<20	<20	<20	<20		
Zinc ug/L	*	*	*	<20	<20	<20	<20	<20	<20	<20		
Boron ug/L	*	*	10	10	24.8	10	10	10	47	18.63333		
Cadmium ug/L	*	*	<20	<20	<20	<20	<20	<20	<20	<20		
Mercury µg/L	*	*	*	*	*	*	*	<0.2	*	<0.2		
Selenium µg/L	*	*	*	*	*	*	*	<0.74	*	<0.74		
Barium ug/L	*	*	30	30	10	10	10	10	<20	14		

value at 1/2 of LOD for stistical purposes =







County	Costello	11/05/2009	Atrazine	09	GT26 - Boherbue Inlet	<0.01	ug/L
County	Costello	11/05/2009	Simazine	09	GT26 - Boherbue Inlet	<0.01	ug/L
County	Costello	11/05/2009	Toluene	09	GT26 - Boherbue Inlet	<0.28	ug/L
County	Costello	11/05/2009	(Total)	09	GT26 - Boherbue Inlet	<1	ug/L
County	Costello	11/05/2009	Xylene	09	GT26 - Boherbue Inlet	<0.73	ug/L
County	Costello	11/05/2009	o-xylene	09	GT26 - Boherbue Inlet	<0.35	ug/L
County	Costello	11/05/2009	ethane	09	GT26 - Boherbue Inlet	<1	ug/L
County	Costello	11/05/2009	Arsenic	09	GT26 - Boherbue Inlet	<0.2	ug/L
County	Costello	11/05/2009	Mercury	09	GT26 - Boherbue Inlet	0.2	ug/L
County	Costello	11/05/2009	Selenium	09	GT26 - Boherbue Inlet	<0.10	ug/L
County	Costello	11/05/2009	Cyanide	09	GT26 - Boherbue Inlet	<0.10	ug/L
County	Costello	11/05/2009	(Total)	09	GT26 - Boherbue Inlet	<0.10	ug/L
County	Costello	11/05/2009	Atrazine	10	GT627 - Boherbue STP (Effluent)	<0.01	ug/L
County	Costello	11/05/2009	Simazine	10	GT627 - Boherbue STP (Effluent)	<0.01	ug/L
County	Costello	11/05/2009	Toluene	10	GT627 - Boherbue STP (Effluent)	<0.28	ug/L
County	Costello	11/05/2009	(Total)	10	GT627 - Boherbue STP (Effluent)	<1	ug/L
County	Costello	11/05/2009	Xylene	10	GT627 - Boherbue STP (Effluent)	<0.73	ug/L
County	Costello	11/05/2009	o-xylene	10	GT627 - Boherbue STP (Effluent)	<0.35	ug/L
County	Costello	11/05/2009	ethane	10	GT627 - Boherbue STP (Effluent)	<1	ug/L
County	Costello	11/05/2009	Arsenic	10	GT627 - Boherbue STP (Effluent)	<0.2	ug/L
County	Costello	11/05/2009	Mercury	10	GT627 - Boherbue STP (Effluent)	<0.2	ug/L
County	Costello	11/05/2009	Selenium	10	GT627 - Boherbue STP (Effluent)	<0.10	ug/L
County	Costello	11/05/2009	Cyanide	10	GT627 - Boherbue STP (Effluent)	<0.10	ug/L
County	Costello	11/05/2009	(Total)	10	GT627 - Boherbue STP (Effluent)	<0.10	ug/L
County	Costello	11/05/2009	Atrazine	11	GT628 - Boherbue Upstream	<0.01	ug/L
County	Costello	11/05/2009	Simazine	11	GT628 - Boherbue Upstream	<0.01	ug/L
County	Costello	11/05/2009	Toluene	11	GT628 - Boherbue Upstream	<0.28	ug/L
County	Costello	11/05/2009	(Total)	11	GT628 - Boherbue Upstream	<1	ug/L
County	Costello	11/05/2009	Xylene	11	GT628 - Boherbue Upstream	<0.73	ug/L
County	Costello	11/05/2009	o-xylene	11	GT628 - Boherbue Upstream	<0.35	ug/L
County	Costello	11/05/2009	ethane	11	GT628 - Boherbue Upstream	<1	ug/L
County	Costello	11/05/2009	Arsenic	11	GT628 - Boherbue Upstream	<0.2	ug/L
County	Costello	11/05/2009	Mercury	11	GT628 - Boherbue Upstream	<0.2	ug/L
County	Costello	11/05/2009	Selenium	11	GT628 - Boherbue Upstream	<0.10	ug/L
County	Costello	11/05/2009	Cyanide	11	GT628 - Boherbue Upstream	<0.10	ug/L
County	Costello	11/05/2009	(Total)	11	GT628 - Boherbue Upstream	<0.10	ug/L
County	Costello	11/05/2009	Xylene	12	GT629 - Boherbue Downstream	<0.73	ug/L
County	Costello	11/05/2009	o-xylene	12	GT629 - Boherbue Downstream	<0.35	ug/L
County	Costello	11/05/2009	ethane	12	GT629 - Boherbue Downstream	<1	ug/L
County	Costello	11/05/2009	Arsenic	12	GT629 - Boherbue Downstream	<0.2	ug/L
County	Costello	11/05/2009	Mercury	12	GT629 - Boherbue Downstream	<0.2	ug/L
County	Costello	11/05/2009	Selenium	12	GT629 - Boherbue Downstream	<0.10	ug/L
County	Costello	11/05/2009	Cyanide	12	GT629 - Boherbue Downstream	<0.10	ug/L
County	Costello	11/05/2009	(Total)	12	GT629 - Boherbue Downstream	<0.10	ug/L



### Attachment E4 Boherbue Downstream Table E4

Sample Date	13/11/2008	04/03/2009	12/03/2009	07/04/2009	07/05/2009	19/05/2009	Average
Sample	River	River	River	River	River	River	
Sample Code	GS1215	GT379	GT354	GT485	GT629	GT780	
Flow M <sup>3</sup> /Day	*	*	*	*	*	*	
pH	*	7.2	*	7.4	7.8	7.2	7.4
Temperature °C	*		*		*		
Cond 20°C	*	131	*	158	136	118	135.75
SS mg/L	*	12	*	2.6	3	11	7.15
NH <sub>3</sub> mg/L	*	0.13	*	0.025	0.05	0.09	0.07375
BOD mg/L	*	1	*	2	2	3	2
COD mg/L	*	40	*	2.5	10.5	56	27.25
TN mg/L	*	1	*	1	1.89	2.02	1.4775
Nitrite mg/L	*	*	*	*	<0.10	*	
Nitrate mg/L	*	*	*	*	1.75	*	1.75
TP mg/L	*	0.1	*	0.06	<0.05	0.18	0.113333
O-PO4-P mg/L	0.025	0.08	0.025	0.025	0.025	0.1	0.051
SO4 mg/L	*	*	*	*	<30	*	
Phenols µg/L	*	*	*	*	<0.10	*	<0.10
Atrazine µg/L	*	*	*	*	<0.01	*	<0.01
Dichloromethane	*	*	*	*	<1	*	<1
Simazine µg/L	*	*	*	*	<0.01	*	<0.01
Toluene µg/L	*	*	*	*	<0.28	*	<0.28
Tributyltin µg/L	*	*	*	*	not required	*	
Xylenes µg/L	*	*	*	*	<1	*	<1
Arsenic µg/L	*	*	*	*	<0.96	*	<0.96
Chromium ug/L	*	<20	<20	<20	<20	<20	<20
Copper ug/L	*	<20	<20	<20	<20	<20	<20
Cyanide µg/L	*	*	*	*	<5	*	<5
Fluoride µg/L	*	*	*	*	<100	*	<100
Lead ug/L	*	<20	<20	<20	<20	<20	<20
Nickel ug/L	*	<20	<20	<20	<20	<20	<20
Zinc ug/L	*	<20	<20	<20	<20	<20	<20
Boron ug/L	*	<20	<20	<20	<20	<20	<20
Cadmium ug/L	*	<20	<20	<20	<20	<20	<20
Mercury µg/L	*	*	*	*	<0.2	*	<0.2
Selenium µg/L	*	*	*	*	1.5	*	1.5
Barium ug/L	*	10	10	10	31.745	10	14.349

value at 1/2 of LOD for stistical purposes =


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