

<b>Retentate RO</b> Ozone Plant wash Cooling water CTW blowdown Boiler blowdown Various	
Q	44,4 m <sup>3</sup> /h
BOD5	mg/l
COD	10,0 mg/l
Hydrocarbon Oil	<0,2 mg/l
Nitrogen	0,8 mg/l
Phosphorus	0,7 mg/l
Sodium	265,6 mg/l
Chloride	1128,0 mg/l
Sulfur by protein	mg/l
T	21,0 °C
pH	-
TTS	10,0 mg/l

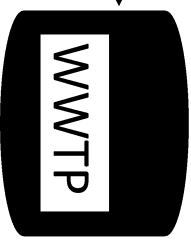
<b>Retentate RO</b> Ozone Plant wash CTW blowdown Boiler blowdown	
Q	30,0 m <sup>3</sup> /h
BOD5	mg/l
COD	10,0 mg/l
Hydrocarbon Oil	<0,2 mg/l
Nitrogen	0,8 mg/l
Phosphorus	0,7 mg/l
Sodium	433,3 mg/l
Chloride	1128,0 mg/l
Sulfur by protein	mg/l
T	21,0 °C
pH	-
TTS	10,0 mg/l

**SURFACE WATERS & PURGES**

<b>Distillery Effluent</b>	
Q	48,4 m <sup>3</sup> /h
BOD5	1054,0 mg/l
COD	2105,0 mg/l
Hydrocarbon Oil	<0,2 mg/l
Nitrogen	0,7 mg/l
Phosphorus	1,1 mg/l
Sodium	210,0 mg/l
Chloride	50,0 mg/l
Sulfur by protein	mg/l
T	39,4 °C
pH	6,8 -
TTS	69,5 mg/l

<b>Distillery Effluent</b>	
Q	96,8 m <sup>3</sup> /h
BOD5	1054,0 mg/l
COD	2108 mg/l
Hydrocarbon Oil	<0,2 mg/l
Nitrogen	0,7 mg/l
Phosphorus	1,1 mg/l
Sodium	210,0 mg/l
Chloride	50,0 mg/l
Sulfur by protein	mg/l
T	39,4 °C
pH	6,8 -
TTS	69,5 mg/l

<b>Distillery Effluent</b>	
Q	96,8 m <sup>3</sup> /h
BOD5	26,4 mg/l
COD	105,4 mg/l
Hydrocarbon Oil	<0,2 mg/l
Nitrogen	0,7 mg/l
Phosphorus	1,1 mg/l
Sodium	210,0 mg/l
Chloride	50,0 mg/l
Sulfur by protein	mg/l
T	35,0 °C
pH	6,9 -
TTS	25,7 mg/l



W1 to river.	ENV PERMIT LIMIT (V008)	peak value
Q	180 m <sup>3</sup> /h	260 m <sup>3</sup> /h
BOD5	14,9 mg/l	20 mg/l
COD	63,9 mg/l	100 mg/l
Hydrocarbon Oil	<0,2 mg/l	3 mg/l
Nitrogen	0,8 mg/l	no limit mg/l
Phosphorus	0,9 mg/l	no limit mg/l
Sodium	263,8 mg/l	no limit mg/l
Chloride	518,5 mg/l	no limit mg/l
Sulfur by protein	mg/l	mg/l
T	28,9 °C	30 °C
pH	-	-
TTS	18,9 mg/l	30 mg/l

**Distillery\_1**

<b>Distillery Effluent</b>	
Q	45,4 m <sup>3</sup> /h
BOD5	1054,0 mg/l
COD	2108,0 mg/l
Hydrocarbon Oil	<0,2 mg/l
Nitrogen	0,7 mg/l
Phosphorus	1,1 mg/l
Sodium	210,0 mg/l
Chloride	50,0 mg/l
Sulfur by protein	mg/l
T	39,4 °C
pH	6,8 -
TTS	69,5 mg/l

**Distillery\_2**



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**ENVIRONMENTAL PLANNING VARIATION PERMIT**  
EPP/KP3030TZ/V010 APPLICATION DOCUMENTATION  
PLANS/DRAWINGS

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**Description:**  
Emission to Water Point W1 Flow  
Balance AS APPROVED IN  
EPP/KP3030TZ/V009

**DWG NR.:** SED C3-3a-18  
**Drawn:** 09/08/22 by: Ceola E. **Scale:** 1:1  
**Chk'd:** 09/08/22 by: Arnaldo F. **Format:** A3

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