

	Annual Status			
		BRITISH		
AUTHORIZATION NUMBER:		COLUMBIA		7008
AUTHORIZATION TYPE:				Effluent, Permit
LEGAL AUTHORIZATION HOLDER	R NAME:			Quinsam Coal Corporation
			ALITHOPIZED PERSON NAME:	Kathleen Russell

l understand that it is an offense to mislead a government official, and I declare that all of the information presented is accurate and true. I have been given the authority by the authorization holder to sign this form.

CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 1	AUTHORISED DISCHARGES	COMPLIANT? (YES/NO/ND)	ACTION TAKEN
Section 1.1	This subsection applies to the discharge of effluent from the NORTH COAL MINING OPERATION AND COAL PREPARATION PLANT. The site reference number for this discharge is E207409		
	The maximum and average authorized rates of discharge are 0.32 m ³ /s and 0.08 m ³ /s		The maximum flow rate observed was below 0.32 m3/s. T The 2023-2024 annual average rate of discharge was 0.08 m3/s or 2,647,026 m3
Section 1.1.1	respectively. The authorized discharge period is 365 d/a.	No	above the permitted annual average quantity by 4.9%.Refer to the Annual Report, Section (6.1.1). Average calculated as an "annual average" over 366 d/a. Appendix I, Table 26.
			(0.1.1). Average calculated as all allitual average over 300 u/a. Appendix 1, Table 20.
Section 1.1.2	The characteristics of the discharge shall not exceed the specified permit limits (See 1.1.2 of PE7008).	Yes	All parameters were within the specified permit limits.
	The location of the facilities from which the discharge originates is Block 26, Block 120 and Block		
Section 1.1.5	148, Comox Land District.	Yes	N/A
Section 1.1.6	The location of the point of discharge is Block 120, Comox Land District. This subsection applies to the discharge of effluent from the SOUTH COAL MINING OPERATION.	Yes	N/A
Section 1.2	The site reference number for this discharge is E218582.		
	The maximum and average authorized rates of discharge are 0.46 m ³ /s and 0.10 m ³ /s,		Both annual maximum flow (0.197 m3/s) and annual average flow (0.032m3/s) were well
Section 1.2.1	respectively. The authorized discharge period is 365 d/a.	Yes	below the permitted rates with the cumulative flow rate recorded as 804,800 m3. Refer to the Annual Report, Section (6.2).Appendix I, Table 25.
	The characteristics of the discharge from the South Mining Operation shall not exceed the		
Section 1.2.2	specified permit limits.	Yes	All parameters were within the specified permit limits.
	The authorized works are surface runoff collection and diversion ditches, flocculation facilities,		
Section 1.2.3	settling pond, 3 pit sumps (1S, 2S and 3S Pits), an Adit sump (4S Adit), pumping facilities, and	No	Permit amendment needs to occur to remove 1S, 4S audit sump. The flocculation facilities include the treatment system cells (Aeration lagoon and Settling pond).
	related appurtenances approximately located.		
Section 1.2.5	The location of the facilities from which the discharge originates is Block 98 and Block 149, Comox Land District.	Yes	N/A
Section 1.2.6	The location of the point of discharge is Block 149,Comox Land District.	Yes	N/A
	This subsection applies to the discharge of effluent from the BLOCK 242 COAL MINING		No discharge occurred from this site during 2023-2024. Site is non-operational and reclaimed.
Section 1.3-1.3.6	OPERATION as shown on attached Site Plan C. The site reference number for this discharge is E225796.	Yes	November 1, 2019 permit amendment authorized removing monitoring from the permit.
	This subsection applies to the discharge of effluent from the 7 SOUTH MINING OPERATION. The		
Section 1.4	site reference number for this discharge is E292069.	Yes	N/A
Section 1.4.1	The maximum authorized rate of discharge is $0.005\mathrm{m}^3/\mathrm{s}$. The authorized discharge period is 365 d/a.	Yes	Discharge did not occur in 2023 /2024.
Section 1.4.2	The characteristics of the discharge from the 7 South Mining Operation shall not exceed the	Yes	Discharge did not occur in 2023 /2024.
Section 1.4.5	specified permit limits. The location of the facilities and point of discharge is Block 120, Comox Land District, except part	Yes	N/A
Section 2	in plan 12164, 13574, 13641, VIP53617 and VIP64817. Specific Requirements	res	NA
Section 2.1	North Coal Mining and Coal Preparation Plant Operation (Settling Pond #4)		
	Rate of Discharge: The maximum flow of 0.32 m ³ /s is the peak routed outflow from the settling		
Section 2.1.1	pond resulting from the following inputs: a) The assumed response of the gravity fed catchment area defined in Subsection 2.1.3 up to a 1 in 10 year return period rainfall of 24 hour duration;	Yes	Combined pumping rates from all of 2-North mine are, including catchment of precipitation is
Section 2.1.1	and b) The maximum combined pumping rate from the 2-North portal sump, 2-North underground workings, and the tailings facility, as specified in Subsection 2.1.2. The Director	res	measured continuously at Settling Pond #4 discharge. See Appendix I, Table 26.
	may from time to time redefine the maximum outflow based upon actual on-site measurements.		
	Pumping Rate: The combined rate at which effluent may be pumped from the 2-North portal		
Section 2.1.2	sump, 2-North underground workings and the tailings facility to the settling pond shall not exceed 0.32 m ³ /s unless authorization has been obtained from the Director. Pumping rates shall	Yes	Combined pumping rates from all of 2-North mine are, including catchment of precipitation is measured continuously at Settling Pond #4 discharge. See Appendix I, Table 26.
	be decreased as necessary to accommodate flows as defined in Subsection 2.1.1 (a).		
Section 2.1.3	Catchment Area: The gravity drained settling pond catchment area shall not exceed 4 hectares unless authorization has been obtained from the Director.	Yes	N/A
	Wash Plant Effluent: Wash plant effluent shall not be conveyed to the 2-North pit sump via the		
Section 2.1.4	wash plant ditch. The Permittee shall keep records of the date, duration and estimated volume	Yes	When operating all fine tailing are directed to the tailings impoundment or underground 2-
	of any overflow from the wash plant effluent sump. Subject to review of this data, the Director may request changes to the works.		North Mine. No mining has occurred.
	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling		Settled solids in the settling pond have not accumulated to a point that requires them to be
Section 2.1.5	pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 2,300 m ³ . The removed solids shall be	Yes	removed. Settled solids have accumulated to a point that requires them to be removed (1.0m) only around the decant riser. The pond has sufficient volume.
	disposed of in a manner approved by the Director.		(2.5m) only around the decane iser. The point has sampleme volume.
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Section 2.1.6	Discharge Routing: The discharge from the settling pond shall be conveyed to Middle Quinsam Lake in a manner acceptable to the Director.	Yes	N/A
1	Effluent Characteristics (for Total Suspended Solids): The characteristics of the effluent with		
	respect to total suspended solids shall be equivalent to or less than the levels specified in Subsection 1.1.2 for discharge rates of up to 0.32 m ³ /s (or as may be redefined by the Director		
Section 2.1.7	according to Subsection 2.1.1). Variances may be allowed by the Director for higher discharge	Yes	All TSS results were within permit limits. See Appendix 1, Table 6.
1	rates. The Director may as well, in the future, establish a maximum level for total suspended solids during extreme storm events.		
Section 2.2	South Coal Mining Operation (Sottling Dond #1)		
Section 2.2	South Coal Mining Operation (Settling Pond #1)		
1	Rate of Discharge: The maximum flow of 0.46 m ³ /s is the peak routed outflow from the settling pond resulting from an assumed response of the maximum equivalent catchment area as		
Section 2.2.1	defined in Subsection 2.2.2 to a design 1 in 10 year return period rainfall of 24 hour duration.	Yes	See Appendix I, Table 27.
	The Director may from time to time redefine the maximum routed outflow based upon actual on site measurements.		
-	Catchment Area: The maximum equivalent settling pond catchment area shall not exceed 68.4		
Section 2.2.2	hectares as defined in the South Pit Water Management. Settling Pond 1, Quinsam Coal Project. Ker, Priestman and Associates Limited, March 1990 unless authorization has been obtained from	Yes	See Appendix I, Table 27.
	the Director.		
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e the maximum routed outflow based upon actual on-		
settling pond catchment area shall not exceed 68.4 Management. Settling Pond 1, Quinsam Coal Project. ch 1990 unless authorization has been obtained from	Yes	See Appendix I, Table 27.
Authorized Person Initial:		Date:

CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 2.2.3	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 1400 m ³ . The removed solids shall be disposed of in a manner approved by the Director.	Yes	Settled solids in the settling pond have not accumulated to a point that requires them to be removed.
Section 2.2.4	Discharge Routing: The discharge from the settling pond shall be conveyed to Long Lake through the adjacent wetlands as specified in Figure 1, South Pit Water Management. Settling Pond 1, Quinsam Coal Project, Ker, Priestman and Associates Limited, March 1990.	Yes	N/A
Section 2.2.5	Effluent Characteristics (for Total Suspended Solids): The characteristics of the effluent with respect to total suspended solids shall be equivalent to or less than the levels specified in Subsection 1.2.2 for discharge rates up to 0.46 m³/s (or as may be redefined by the Director according to Section 2.2.1). Variances may be allowed by the Director for higher discharge rates. The Director may as well, in the future, establish a maximum level for total suspended solids during extreme storm events.	Yes	N/A
Section 2.3 - 2.3.4 Section 2.4	Block 242 Coal Mining Operation 7-South Mining Operation Settling Pond		This site is non-operational and reclamation efforts are establishing.
Section 2.4.1	Rate of Discharge: The maximum flow of 0.005 m3/s is the peak routed outflow from the settling pond resulting from an assumed response of the maximum equivalent catchment area as defined in subsection 2.4.3 to a design I in 10 year return period of 24 hour duration. Additional flow from the 75 Adit sump pump must not cause the settling pond to overflow or exceed the maximum flow. The Director may from time to time redefine the maximum routed outflow based upon actual on-site measurements.	Yes	No discharge occurred in 2023-2024
Section 2.4.2	Pumping Rate: The Permittee shall keep records of the date, duration and estimated volume when water from the 7 South Adit Sump (75 Portal Sump) is pumped to the settling pond and submit the records to the Regional Waste Manager upon request.	Yes	To date, no water has ever been routed from 7-South (Adit) Portal Sump to 7SSD. Therefore no records exist. All water from 7-South (Adit) Portal Sump (7SPS) is pumped underground to SS mine pool.
Section 2.4.3	Catchment Area: The maximum settling pond catchment area shall not exceed 3.14 hectares as defined in the Surface Water Management Plan -7 South Development Quinsam Mine, Golder Associates, April 12, 2012 (Appendix B) unless authorization has been obtained from the Director.	Yes	N/A
Section 2.4.4	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 340 m ³ . The removed solids shall be disposed of in a manner approved by the Director.	Yes	Settled solids have not accumulated to a point that requires them to be removed at this time. A minimum water cover of 1.0m is not sustained at all times as water management practices have changed to have minimal water discharged from the pond. Based on experience, it is difficult to maintain a 1.0m cover and discharge at appropriate levels. There has been far less TSS exceedances with the new practice.
Section 2.4.5	Discharge Routing: The discharge from the settling pond shall be conveyed to the Quinsam River via an ephemeral stream (Stream I) and a wetland (Lower Wetland) adjacent the Quinsam River in a manner acceptable to the Director.	Yes	Refer to the Annual Report, Appendix I, Table 28 (No discharge occurred).
Section 2.4.6	Settling Pond Discharge Dilution Ratio: The 7-South settling pond must not discharge unless a minimum flow is measured in Stream 1 (7S monitoring site). The minimum Stream 1 to discharge ratio shall be documented to the satisfaction of the Director in the Environmental Procedures Manual required in Section 3.2.	Yes	Refer to the Annual Report, Section 6.3 and Appendix I, Table 28 and 30 (No discharge occurred). Previous Annual reports (where discharge occurred) validated the model.
Section 2.4.7	Settling Pond Discharge Effluent Quality Model Validation: The Permittee shall report on the settling pond performance in the annual report. The purpose of the report is to validate the effluent water quality prediction model using actual flow and water quality data. The Director may amend the permit, if required, or request an amendment of the permit for environmental protection based on the report findings.	Yes	Refer to the Annual Report, Section 6.3 and Appendix I, Table 30 (No discharge occurred). Previous Annual reports (where discharge occurred) validated the model.
Section 2.4.8	Contingency Measures: In the event of a 7-5outh settling pond discharge permit limit exceedance, the settling pond discharge valve must be closed immediately and the effluent must temporarily be diverted to the 55 mine or 75 mine underground workings, or to another area acceptable to the Director. Details of the contingency measures shall be documented in the Environmental Procedures Manual required under Section 3.2. Additionally, the Permittee shall follow Section 3.9 requirements.	Yes	The 7-South settling pond water is directed to 7-S Sump via pumping. Refer to the Annual Report Section 2.1.3 and Figure 3. Details of the contingency measures are documented in the Environmental Procedures Manual (EPM).
Section 2.4.9	Toxicity Failure Monitoring and Reporting Procedures	Yes	There have been no toxicity failures in the past. Toxicity samples were not collected due to zero discharge.
Section 3.2 Section 3.3	Environmental Procedures Manual (EPM) Acid Generation Control	Yes Yes	There were no updates required for the EPM in 2023. N/A
Section 3.4 Section 3.5	Water Quality Objectives Nutrient Control	Yes Yes	N/A N/A
Section 3.6	Chemical Storage Containment Works	Yes	N/A
Section 3.7	Spill Reporting	Yes	Refer to Appendix I (Table 2). Bypass of works from Long Lake Seeps, Potential Seepage areas (5, S2A and S2B). Appendix VII - Noncompliance Reports, Borehole QU14-10, End Spill Report Dangerous Goods Incident Report # (DGIR) 241338 for further information.
Section 3.8	Additional Works	Yes	Passive Treatment System cells BCR-EFF, SPC-EFF, AL-EFF, SP-EFF, 7-South Containment Pond (7SCP) and 2-North PAG CCR Pond (WP) are additional works that can be used as facilities for the removal of nutrients and metals from the effluent or the provision of additional settling pond capacity as well as flocculation facilities, if required.
Section 3.9 (3.9.1-3.9.2)	Maintenance of Works, Non-Compliances and Emergency Procedures	No	Refer to Appendix I (Table 2). Unauthorized Discharge from Seeps.Borehole QU14-10 (DGIR) 241338.
Section 3.10	Bypasses	No	Refer to Appendix I (Table 2). Unauthorized Discharge from Seeps. Borehole QU14-10 (DGIR) 241338.
Section 3.11	Environmental Review Procedure - An Environmental Technical Review Committee of six members has been formed. This Committee is composed of technical representatives from the Department of Fisheries and Oceans; Environment Canada; the Ministry of Environment; the Ministry of Energy, Mines and Natural Gas; the City of Campbell River; and the Permittee for the purpose of coordinating and reviewing the construction and operational monitoring results. Based on the recommendations of the Committee, the Director may revise the monitoring requirements in Section 4.	Yes	Agency meeting was held on November 9th, 2023. Stakeholder meeting was held December 29, 2023.
Section 3.12	Future Monitoring Based on the results of the Effluent and In Mine Releases monitoring program specified in Subsection 4.1 and / or data obtained from the Receiving Environment monitoring program specified in Subsection 4.2, the Director may revise the monitoring requirements in Section 4.	Yes	Agency meeting was held on November 9th, 2023. Stakeholder meeting was held December 29, 2023. No revised monitoring plans were suggested.
Section 4.0	MONITORING AND REPORTING REQUIREMENTS	Yes	
Section 4.1.1	Effluent and In-Mine Release	Yes	

Authorized Person Initial:	Date:
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CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 4.1.1	North Coal Mining and Coal Preparation Plant Operation	Yes	
Section 4.1.1 i)	Decant WD (EMS # E207409).	No	Annual average discharge quantity was above permit limits. Refer to Annual report, Appendix 1, Table 2 for permit non-compliance results.
Section 4.1.1 ii)	Culvert, at Middle Quinsam Lake Road - WC (EMS # E207411)	Yes	
Section 4.1.1 iii)	2-North Portal Sump Effluent - 2N-P-Sump (EMS # E283433).	No	Appendix 1, Table 2, Dissolved Sulphate (1 out of 12) monthly samples. Results were not received by the analytical laboratory.
Section 4.1.1 iv)	Additional Sites Monitoring Schedule : 2-North Pit Sump CCR Cover (WP) EMS # E207412	Yes	

CONDITION NUMBER	CONDITION DESCRIPTION South Coal Mining Operation	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 4.1.2	South Coal Mining Operation		
Section 4.1.2 (i)	Decant - SPD (EMS # E218582)	No	Refer to Annual Report, Appendix 1, Table 2. Missing one flow result for March 31.
Section 4.1.2 (ii)	Culvert, Downstream End of Access Road - SPC (EMS # E217014)	Yes	
Section 4.1.2 (iii)	South Pit Main Sump Water- 3S (EMS # E217015)	No	Appendix 1, Table 2, Dissolved Sulphate (1 out of 6) monthly samples. Results were not received by the analytical laboratory.
Section 4.1.2 (iv)	Additional Monitoring Sites Schedule: 2-South Pit In Pit Water Cover (2S) EMS # E292127	No	Appendix 1, Table 2, Dissolved Sulphate (1 out of 12) monthly samples. Results were not received by the analytical laboratory.
Section 4.3	Block 242 Coal Mining Operation	Yes	NA - Area is non-operational and reclaimed.
Section 4.1.4	7 South Mining Operation		
Section 4.1.4 (i)	Decant - 7SSD (EMS # E292069)	Yes	
Section 4.1.4 (ii)	7-South Adit Sump EMS # E292110	Yes	NA - This pond is never pumped to 7S Settling Pond.
Section 4.2	Receiving Environment Monitoring Sites and Monitoring Requirements		
Section 4.2.1 (i)	Initial Dilution Zone Monitoring Sites - Long Lake Entrance- LLE (EMS # E292130)	Yes	
Section 4.2.1 (ii)	Road Crossing bridge on Stream 1 above the Lower Wetland -7S (EMS # E292109).	Yes	
Section 4.2.2	Seep Monitoring Sites		N/A
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Section 4.2.2 (i)	Long Lake Seep - LLS / LLSM (EMS # E292131)	No	Unauthorized discharge, bypass of authorized works.
Section 4.2.3	Receiving Water (Stream and Lakes) Monitoring Sites. As per Table 4.2.3 North Mining Operation: Quinsam River at Argonaut Road (WA) (EMS # 0126402), Outflow from Middle Quinsam Lake (WB) (EMS # 9000504), South Mining Operation: Long Lake Outlet (LLO) (EMS # E219412), No Name Lake Outlet (NNO)(EMS # E217017). [EMS # E217017) 7-South Mining Operation (Areas 1 to 4): Quinsam River downstream of 7 South Mining Operation (7SQR) (EMS # E292113), 7-South Area 5 Mining Operation: Iron River upstream of 7SA5 (IRG) (EMS # E297231), Iron River downstream of 7SA5 and 242 inputs (IR8) (EMS # E297232), Quinsam River downstream of confluence with Iron River (IRQR) (EMS # E299256).	No	No monitoring occurred at Block 242 Mining Operation: Iron River upstream of 242 influence (EMS #E225798) Iron River downstream of 242 influence (EMS # E225808). These sites are captured at IR6 and IR8. E297231 - Iron River upstream of 75A5 and 242 influence (IR6) missing 2 weeks out of 5 weeks in summer sampling. Missing parameters (TSS, hardness, SO4, alk., acidity, pH, cond., TM and DM).
Section 4.2.4	Sediment and Benthic Monitoring Sites	NA	N/A
Section 4.2.4 (i)	7-South Area 5 sediment proposal	Yes	N/A
Section 4.2.5	Stream Monitoring Requirements		
	General Requirements Applicable to All Sites Defined Under Section 4.2.3 (E292112)- Lower Wetland Outlet (LWO).	Yes	N/A
Section 4.2.6	Lake Monitoring Requirements		
Section 4.2.6 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.3.	No	E217018 - No Name Lake (1M, 4M, 9M and B). No results for turbidity. (1 out of 5) weekly samples in spring. Results were not received by the analytical laboratory.
Section 4.2.7	Sediment Benthic Monitoring Requirements	Yes	Partial program was performed on the Quinsam River as a result of the mine in care and
	General Requirements Applicable to All Sites Defined Under Section 4.2.4	N/A	maintenance. N/A
		IV/M	IV/A
	Additional Monitoring Requirements Composite sampling	Yes	
Section 4.3.2	Continuous Flow Recording	Yes	
Section 4.3.3	Iron River Flow Monitoring	Yes	
Section 4.3.4	pH and Conductivity Monitoring	Yes	
Section 4.3.5	Monitoring of Seeps	Yes	Annual Report Appendix I , Tables 2, 3, 20, 21, 30, 35 to 37.
	Groundwater Observation Wells	Yes	Groundwater results and discussion is integrated into the Annual Report, Refer to Appendix I,
		Yes	Tables 5, 32 to 37 and Appendix VI. Operations are checked daily by either the environmental technician or shift bosses.
	Monitoring of Drainage Ditches and Water Channels Precipitation Monitoring	Yes	Annual Report, Appendix I, Table 31.
	Block 242 Monitoring	N/A	Not operational, area has been reclaimed
	Monitoring Procedures	Yes	Not operational, area has been reclaimed N/A
	Sampling and Analytical Procedures	Yes	N/A
	Reporting	Yes	N/A
	7 South Area 5 Reporting	Yes	No mining has occurred since 2019.
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