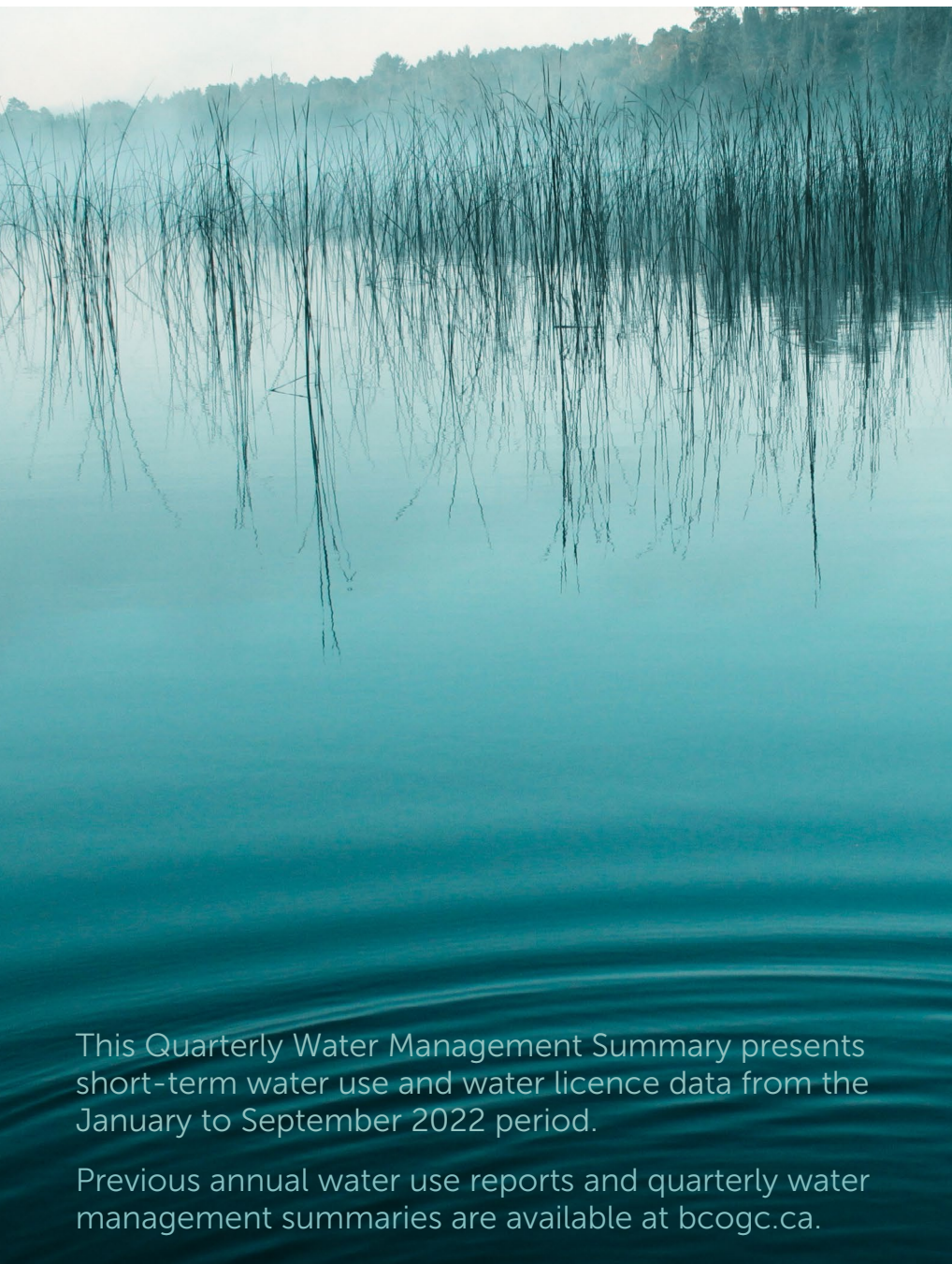


Quarterly Oil and Gas Water Management Summary

Jul-Sept (Q3) 2022





This Quarterly Water Management Summary presents short-term water use and water licence data from the January to September 2022 period.

Previous annual water use reports and quarterly water management summaries are available at bcogc.ca.

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Vision, Mission and Values

Vision

A resilient energy future where B.C.'s energy resource activities are safe, environmentally leading and socially responsible.

Mission

We regulate the life cycle of energy resource activities in B.C., from site planning to restoration, ensuring activities are undertaken in a manner that:



Protects public safety



Safeguards the environment



Supports meaningful reconciliation



Advances the public interest and contributes to B.C.'s economy

Values

Transparency is our commitment to be open and provide clear information on decisions, operations and actions.

Innovation is our commitment to learn, adapt, act and grow.

Integrity is our commitment to the principles of fairness, trust and accountability.

Respect is our commitment to listen, accept and value diverse perspectives.

Responsiveness is our commitment to listening and timely and meaningful action.

Role of the BC Oil and Gas Commission

As a provincial Crown agency, we protect public safety and safeguard the environment through the sound regulation of oil, gas and aspects of geothermal activities in B.C. while balancing a broad range of environmental, economic and social considerations.

We regulate resource activity through the [Oil and Gas Activities Act \(OGAA\)](#), the [Petroleum and Natural Gas \(PNG\) Act](#), and other associated laws related to heritage conservation, roads, land and water use, forestry, and other natural resources.

Through combined authority and working with partner agencies, we regulate activities on Crown land, private land, and the Agricultural Land Reserve. When oil, gas, or geothermal permits are granted, we are responsible for ensuring industry compliance with provincial legislation from initial exploration to final reclamation.

As more resources have been discovered, techniques for accessing them have advanced, environmental awareness has increased, and stakeholders have let us know they are interested in providing more input.

During our review and decision-making processes, we work closely with [land owners](#), [rights holders](#), and [Indigenous communities](#).

The Commission currently has over 280 employees operating out of seven locations: Fort Nelson, Fort St. John, Dawson Creek, Terrace, Prince George, Kelowna and Victoria. The largest number of employees are in the Fort St. John office.



With more than 20 years' dedicated service, we're committed to ensuring safe and responsible energy resource management for British Columbia.

Commission Office Locations Throughout B.C.



Territorial Acknowledgement

We acknowledge and respect the many Indigenous Territories and Treaty areas, each with unique cultures, languages, legal traditions and relationships to the land and water, which the BC Oil and Gas Commission's work spans. We also respectfully acknowledge the Métis and Inuit people living across B.C.

How Water is Used and Accessed

Water Use

Water is used for various purposes in the oil and gas industry. The largest use of water is for hydraulic fracturing, however, water is used for other purposes, such as:



Seismic or geophysical exploration



Drilling



Machine washing



Dust control



Water floods (enhances oil recovery)



Ice road freezing



Hydrostatic testing of pipelines

Water Access

There are different ways the oil and gas industry may access water in British Columbia. Some methods are managed through provincial legislation, including:

- **Water licences** issued under section 9 of the Water Sustainability Act (WSA) for surface and groundwater. Commission staff designated as Regional Water Managers have the authority to issue and administer long-term water licences.
- **Short-term surface water use or diversion approvals** issued under section 10 of the WSA. Short-term water use is administered by the Commission.
- **Water source wells** authorized by the Commission under OGAA are wells where water is withdrawn for injection into underground formations to enhance oil or natural gas recovery.
- **Flowback water** that returns to the surface after being injected for hydraulic fracturing.
- **Produced water** that flows to the surface as a by-product of oil and gas production.

Industry may access water by means outside of regulatory oversight:

Private agreements can be made with land owners who have a source of surface water supply such as a dugout or groundwater well. In some cases, private agreements may require a Waterworks water licence under the WSA.

Oil and Gas Activity Water Use: Short-term Approvals & Long-Term Licences

Short-Term Water Use

During July to September there were 293 water use approvals in place, representing 705 withdrawal locations, held by 30 companies (Table 1).

The total water volume available for use by short-term approvals active on the last day of September was 16,768,485 m³.

A total of 1,050,375 m³ was reported as withdrawn in the first three quarters of 2022.

**TABLE 1 - SHORT-TERM APPROVALS
AND USE IN 2022**

	End of Q1	End of Q2	End of Q3
Companies with Active Approvals	36	33	30
Active Approvals	248	276	293
Approved Withdrawal Locations	714	732	705
Volume Available for Use (m ³)	18,300,693	17,378,385	16,768,485
Cumulative Volume Reported Withdrawn (m³)	292,693	486,966	1,050,375

Long-Term Water Use

During July to September, there were 107 active oil and gas related water licences, representing 111 withdrawal locations, held by 31 companies (Table 2).

The total annual volume available for use for water licences was 32,720,740 m³.

A total of 2,887,377 m³ was reported as withdrawn in the first three quarters of 2022.

**TABLE 2 - LONG-TERM WATER LICENCES
AND USE IN 2022**

	End of Q1	End of Q2	End of Q3
Companies with Active Water Licences	30	31	31
Active Water Licences	106	107	107
Licensed Withdrawal Locations	110	111	111
Annual Volume Available for Use (m ³)	32,163,740	32,720,740	32,720,740
Cumulative Volume Reported Withdrawn (m³)	684,428	2,028,017	2,877,377

A break down of short-term approvals and water licence use by OGC Water Management Basin is listed in Table 4 on page 10.

Oil and Gas Related Water Licences

Table 3: Licences that Withdrew Water from July to September 2022

LICENCE #	LICENCEE	SOURCE	OGC WATER MGMT BASIN	ANNUAL APPROVAL (m ³ /YR)	WATER USE (m ³)
C112155	Whitecap Resources Inc.	Peace River	Lower Peace River	1,825,000	126,611
C133805	Peace View Hutterian Brethren Church	Dawson Creek Aquifer	Lower Peace River	250,000	860
C133847	Petronas Energy Canada	Spring & Unnamed Stream	Cameron River	7,374	1,594
C133853	Petronas Energy Canada	Barker Creek Tributary	Middle Sikanni Chief River	7,264	152
C133934	Petronas Energy Canada	Caribou Creek	Upper Beatton River	15,076	381
C134092	Petronas Energy Canada	Unnamed Spring	Lower Halfway River	65,971	230
C134093	Petronas Energy Canada	Grewatsch Creek Tributary	Upper Beatton River	54,368	80
C134104	Petronas Energy Canada	Unnamed Stream	Lower Halfway River	50,235	1,110
C134107	Petronas Energy Canada	Unnamed Stream	Cameron River	57,582	2,266
C134110	Petronas Energy Canada	Unnamed Stream	Cameron River	79,045	700
C134111	Petronas Energy Canada	Unnamed Stream	Upper Beatton River	49,588	60
C134112	Canadian Natural Resources	Pine River	Lower Pine River	650,000	400
C134168	Petronas Energy Canada	Unnamed Creek	Middle Sikanni Chief River	8,199	7
C134369	Tourmaline Oil Corp.	Beatton River	Upper Beatton River	750,000	175,460
C134471	Petronas Energy Canada	Sikanni Chief River	Upper Sikanni Chief	2,993,000	170,343
C500172	Secure Energy Services	Aquifer 634	Lower Peace River	36,500	2,703
C500226	Veresen Energy Pipeline Inc.	Aquifer 621	Smoky River	5,500	959
C500334	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	29,161	2,144
C500335	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	13,670	13,670
C500349	Petronas Energy Canada	FSJ Aquifer	Lower Halfway River	10,463	1,602
C500530	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	83,950	827
C500794	Petronas Energy Canada Ltd.	FSJ Aquifer	Upper Beatton River	6,924	1,171
C501029	Ovintiv Canada ULC	Dawson Creek Aquifer	Lower Kiskatinaw River	16,000	375
C501076	Ovintiv Canada ULC	Bissette Ck, Dawson Ck	Pouce Coupe River	482,000	162
C501120	Canlin Energy Corp.	FSJ Aquifer	Upper Beatton River	1,825	72
C501507	Ovintiv Canada ULC	Aquifer 622	Pouce Coupe River	200,000	420
C501578	Ovintiv Canada ULC	Aquifer 593	Lower Kiskatinaw River	120,000	110
C501672	ConocoPhillips Canada	Aquifer 451	Cache Creek	49,750	2,683

At the end of September, water used by industry by way of licence was a fraction of a per cent (0.002) of the average runoff replenished annually in northeast B.C.

LICENCE #	LICENCEE	SOURCE	OGC WATER MGMT BASIN	ANNUAL APPROVAL (m³/YR)	WATER USE (m³)
C501685	ConocoPhillips Canada	Aquifer 451	Cache Creek	160,235	36,805
C501773	Tourmaline Oil Corp.	FSJ Aquifer	Upper Beaton River	19,710	620
C501793	Canadian Natural Resources	Aquifer 931	Milligan Creek	36,500	3,312
C501797	Canadian Natural Resources	Aquifer 931	Milligan Creek	23,725	2,854
C501804	T. Hartnell Enterprises Ltd.	Aquifer 633	Lower Kiskatinaw River	250,000	238,127
C501865	Boundry Lake Sand & Gravel	FSJ Aquifer	Lower Peace River	10,950	492
C502134	Petronas Energy Canada	FSJ Aquifer	Cameron River	4,015	455
C502277	Peaceland Farm Ltd.	Aquifer 908	Lower Halfway River	360,000	3,416
C502448	Canadian Natural Resources	Dawson Creek Bedrock	Murray River	5,475	389
C502452	Canadian Natural Resources	FSJ Aquifer	Kahntah River	3,650	51
C502455	Canadian Natural Resources	Dawson Creek Aquifer	Smoky River	1,095	185
C502462	Canadian Natural Resources	FSJ Aquifer	Kahntah River	7,300	742
C502467	Canadian Natural Resources	FSJ Aquifer	Upper Beaton River	3,650	40
C502795	Canadian Natural Resources	Aquifer 451	Blueberry River	3,650	357
C502900	Pineview Trucking & Excavating Ltd.	Unconsolidated Aquifer	Outside of NEBC	98,550	12,341
C502957	Time Travel Services Ltd.	Aquifer 928	Upper Peace River	10,000	4,942
C503048	Albright Flush Systems	Aquifer 451	Cache Creek	2,920	686
C503155	Inga Water Source Ltd.	Aquifer 451	Cache Creek	76,285	162
C503376	Nil-Ray Farms	Unnamed Creek	Lower Kiskatinaw River	110,217	32,050
C500346	Petronas Energy Canada	FSJ Aquifer	Upper Prophet River	36,593	81
C500355	Ovintiv Canada	Dugout nr Eight Mile Creek	Lower Peace River	90,000	1,907

Jul - Sept (Q3) TOTAL: 849,360

TABLE 4 - SUMMARY OF WATER ALLOCATION AND USE FOR OIL AND GAS ACTIVITIES IN 2022, ORGANIZED BY OGC WATER MANAGEMENT BASIN (Page 1 of 4)

MAJOR and Sub-Basin Name	OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10					OIL AND GAS RELATED WATER LICENCES - SECTION 9					
	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
BEATTON RIVER (sub-basin of Peace River)											
Upper Beatton River	14	765,600	0.153%	12,135	0.002%	17	1,575,519	0.315%	508,727	0.102%	499,408,440
Middle Beatton River	26	282,896	0.114%	3,004	0.001%	1	1,095	0.000%	0	0.000%	249,152,995
Middle Beatton Total (incl. Upper Beatton)	40	1,048,496	0.140%	15,139	0.002%	18	1,576,614	0.211%	508,727	0.068%	748,561,435
Milligan Creek	11	29,100	0.015%	0	0.000%	6	235,425	0.123%	15,730	0.008%	191,536,686
Blueberry River	15	266,000	0.091%	32,399	0.011%	4	198,925	0.068%	24,805	0.008%	293,278,540
Doig River	1	5,000	0.002%	2,740	0.001%	1	51,100	0.016%	0	0.000%	323,069,523
Lower Beatton River	2	519,600	0.376%	2,282	0.002%	1	20,730	0.015%	0	0.000%	138,262,629
BEATTON TOTAL	69	1,868,196	0.110%	52,560	0.003%	30	2,082,794	0.123%	549,262	0.032%	1,694,708,813
HALFWAY RIVER (sub-basin of Peace River)											
Chowade River	0					0					327,027,527
Upper Halfway River	1	500,000	0.063%	0	0.000%	1	72,000	0.009%	0	0.000%	795,962,409
Upper Halfway Total (includes Chowade)	1	500,000	0.045%	0	0.000%	1	72,000	0.006%	0	0.000%	1,122,989,936
Graham River	0	0	0.000%	0	0.000%	0					860,627,172
Cameron River	24	957,124	0.428%	54,006	0.024%	19	1,111,919	0.497%	33,378	0.015%	223,679,567
Lower Halfway River	0	0	0.000%	0	0.000%	9	5,448,688	3.596%	379,764	0.251%	151,526,991
HALFWAY TOTAL	25	1,457,124	0.062%	54,006	0.002%	29	6,632,607	0.281%	413,052	0.018%	2,358,823,666
MOBERLY RIVER (sub-basin of Peace River)											
Moberly River	0					0					391,714,995
MOBERLY TOTAL	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	391,714,995
PINE RIVER (sub-basin of Peace River)											
Burnt River	3	94,002	0.013%	3	0.000%	0					737,930,022
Sukunka River	4	140,000	0.013%	62,748	0.006%	0					1,047,282,572
Sukunka River Total (includes Burnt)	7	232,002	0.013%	62,751	0.004%	0	0	0.000%	0	0.000%	1,785,212,594
Upper Pine River	1	18,000	0.001%	1,977	0.000%	0					1,466,884,035
Murray River	4	87,352	0.003%	760	0.000%	1	5,475	0.000%	728	0.000%	2,698,285,017
Lower Pine River	2	1,580,500	1.148%	242,433	0.176%	1	650,000	0.472%	400	0.000%	137,619,889
PINE TOTAL	14	1,919,354	0.032%	307,921	0.005%	2	655,475	0.011%	1,128	0.000%	6,088,001,535

OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10						OIL AND GAS RELATED WATER LICENCES - SECTION 9					
MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
KISKATINAW RIVER (sub-basin of Peace River)											
West Kiskatinaw River	0					0					117,515,115
East Kiskatinaw River	0					0					105,452,962
Middle Kiskatinaw River	3	27,200	0.048%	750	0.001%	1	600,000	1.065%	167,102	0.297%	56,347,972
Middle Kiskatinaw Total (incl. West & East)	3	27,200	0.010%	750	0.000%	1	600,000	0.215%	167,102	0.060%	279,316,049
Lower Kiskatinaw River	13	329,382	0.367%	6,705	0.007%	10	3,198,317	3.567%	567,595	0.633%	89,659,847
KISKATINAW TOTAL	16	356,582	0.097%	7,455	0.002%	11	3,798,317	1.029%	734,697	0.199%	368,975,896
PEACE RIVER											
Peace Arm	0					3	9,125,000	N/A	41,356	N/A	N/A
Upper Peace River	1	510,000	0.001%	0	0.000%	1	10,000		8,808		36,423,413,429
Lynx Creek	0					0					30,436,635
Farrell Creek	0	0	0.000%	0	0.000%	0					91,018,843
Cache Creek	0	0	0.000%	0	0.000%	8	677,605	0.908%	85,193	0.114%	74,603,546
Pouce Coupe River	5	142,800	0.056%	0	0.000%	4	1,650,200	0.645%	110,843	0.043%	255,686,202
Lower Peace River	5	355,000	0.310%	114,644	0.100%	8	4,204,919	3.673%	430,764	0.376%	114,470,012
PEACE TOTAL (incl. Kisk/Pine/Moberly/Half/Beatton)	135	6,609,056	0.014%	536,586	0.001%	96	28,836,917	0.060%	2,375,103	0.005%	47,891,853,572
SMOKY RIVER											
Smoky River	3	27,000	0.001%	0	0.000%	2	6,595	0.000%	2,563	0.000%	2,669,506,123
SMOKY TOTAL	3	27,000	0.001%	0	0.000%	2	6,595	0.000%	2,563	0.000%	2,669,506,123
MUSKWA RIVER (sub-basin of Fort Nelson River)											
Upper Muskwa River	0					0					1,725,201,511
Middle Muskwa River	0					0					1,973,711,816
Middle Muskwa Total (incl. Upper Muskwa)	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	3,698,913,327
Lower Muskwa River	1	22,000	0.003%	0	0.000%	0					646,841,560
MUSKWA TOTAL	1	22,000	0.001%	0	0.000%	0	0	0.000%	0	0.000%	4,345,754,887
PROPHET RIVER (sub-basin of Fort Nelson River)											
Upper Prophet River	0					1	36,593	0.002%	81	0.000%	1,470,271,289
Middle Prophet River	7	63,000	0.010%	0	0.000%	0					621,428,680
Middle Prophet Total (incl. Upper Prophet)	7	63,000	0.003%	0	0.000%	1	36,593	0.002%	81	0.000%	2,091,699,969
Lower Prophet River	2	8,200	0.003%	0	0.000%	0					272,262,427
PROPHET TOTAL	9	71,200	0.003%	0	0.000%	1	36,593	0.002%	81	0.000%	2,363,962,396

OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10						OIL AND GAS RELATED WATER LICENCES - SECTION 9					
MAJOR and Sub-Basin Name	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
SIKANNI CHIEF RIVER (sub-basin of Fort Nelson River)											
Upper Sikanni Chief River	0	0	0.000%	0	0.000%	3	3,117,689	0.386%	469,050	0.058%	807,771,692
Middle Sikanni Chief River	24	324,443	0.034%	211	0.000%	4	29,203	0.003%	159	0.000%	949,755,794
Middle Sikanni Chief Total (incl. Upper Sikanni)	24	324,443	0.018%	211	0.000%	7	3,146,892	0.179%	469,209	0.027%	1,757,527,486
Lower Sikanni Chief	16	96,224	0.011%	952	0.000%	0					875,678,142
SIKANNI CHIEF TOTAL	40	420,667	0.016%	1,163	0.000%	7	3,146,892	0.120%	469,209	0.018%	2,633,205,628
FORT NELSON RIVER											
Kahntah River	33	168,648	0.042%	0	0.000%	2	10,950	0.003%	2,693	0.001%	400,582,903
Fontas River	3	17,200	0.003%	0	0.000%	0					591,531,903
Fontas Total (includes Kahntah)	36	185,848	0.019%	0	0.000%	2	10,950	0.001%	2,693	0.000%	992,114,806
Klua Creek	0					0					402,135,448
Upper Fort Nelson River	0					0					276,181,026
Upper Fort Nelson Total (incl. Sikanni Chief Total, Kahntah, Fontas, Klua)	76	606,615	0.014%	1,163	0.000%	9	3,157,842	0.073%	471,902	0.011%	4,303,636,908
Snake River	0					0					310,763,522
Sahtaneh River	9	30,500	0.006%	0	0.000%	0					474,904,729
Middle Fort Nelson River	5	74,000	0.014%	1,421	0.000%	0					515,348,901
Middle Ft Nelson Total (incl. Upper Ft. Nelson total, Muskwa Total, Prophet Total, Snake, Sahtaneh)	100	804,215	0.007%	2,584	0.000%	10	3,194,435	0.026%	471,983	0.004%	12,314,371,343
Kiwigana River	7	71,500	0.016%	2,579	0.001%	0					441,657,543
Lower Fort Nelson River	0					0					312,768,938
FORT NELSON TOTAL	107	875,715	0.007%	5,163	0.000%	10	3,194,435	0.024%	471,983	0.004%	13,068,797,824
LIARD RIVER											
Muncho River	0					0					551,551,360
Upper Liard River	0					0					33,125,817,465
Upper Liard Total (incl. Muncho)	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	33,677,368,825
Grayling River	0					0					630,833,914
Upper Toad River	0					0					1,521,055,576
Racing River	0					0					1,488,336,681
Lower Toad River	0					0					419,472,722
Beaver River	0					0					10,862,659,426
Middle Liard River	0					0					463,652,312

MAJOR and Sub-Basin Name	OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10					OIL AND GAS RELATED WATER LICENCES - SECTION 9					
	NUMBER OF APPROVED WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	NUMBER OF LICENCED WITHDRAWAL LOCATIONS	TOTAL VOLUME LICENCED (m³)	TOTAL VOLUME LICENCED AS % OF MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2022 (m³)	TOTAL VOLUME WITHDRAWN AS % OF MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
LIARD RIVER con't											
Middle Liard Total (incl. Upper Liard Total, Grayling, Upper Toad, Racing, Lower Toad, Beaver)	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	49,063,379,456
Capot-Blanc Creek	0					0					183,879,851
Dunedin River	0					0					820,464,167
Lower Liard River	1	20,000	0.002%	0	0.000%	0					1,236,634,664
LIARD TOTAL (incl. Fort Nelson)	108	895,715	0.001%	5,163	0.000%	10	3,194,435	0.005%	471,983	0.001%	64,373,155,962
PETITOT RIVER											
Sahdoanah River	22	55,000	0.022%	3,696	0.001%	0					252,625,362
Upper Petitot River	47	165,400	0.011%	0	0.000%	0					1,476,579,488
Tsea River	36	169,810	0.039%	2,484	0.001%	0					434,062,484
Middle Petitot River	24	108,300	0.016%	0	0.000%	0					698,562,753
Middle Petitot Total (incl. Sahdoanah, Upper Petitot, Tsea)	129	498,510	0.017%	6,180	0.000%	0	0	0.000%	0	0.000%	2,861,830,087
Lower Petitot River	23	276,000	0.031%	1,462	0.000%	0					904,314,069
PETITOT TOTAL	152	774,510	0.021%	7,642	0.000%	0	0	0.000%	0	0.000%	3,766,144,156
HAY RIVER											
Upper Kotcho River	0					0					311,519,217
Kyklo River	0	0	0.000%	468	0.000%	0					145,897,691
Shekilie River	28	330,599	0.073%	1,656	0.000%	0					450,747,494
Lower Kotcho River	0	0	0.000%	2,208	0.001%	0					311,519,217
Lower Kotcho Total (includes Upper Kotcho, Kyklo, Shekilie)	28	330,599	0.027%	4,332	0.000%	0	0	0.000%	0	0.000%	1,219,683,619
Hay River	25	175,300	0.033%	144	0.000%	0					538,672,352
HAY TOTAL	53	505,899	0.029%	4,476	0.000%	0	0	0.000%	0	0.000%	1,758,355,971
CHINCHAGA RIVER											
Chinchaga River	0	0	0.000%	0	0.000%	0					109,492,680
CHINCHAGA TOTAL	0	0	0.000%	0	0.000%	0	0	0.000%	0	0.000%	109,492,680
OTHER (outside Northeast B.C.)	254	7,956,305	N/A	496,508	N/A	3	682,793	N/A	27,728	N/A	N/A
GRAND TOTAL	705	16,768,485	0.014%	1,050,375	0.001%	111	32,720,740	0.027%	2,877,377	0.002%	120,568,508,464

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For questions regarding this report, please contact OGC.Communications@bcogc.ca



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