

Quarterly Oil and Gas Water Management Summary

Apr-Jun (Q2) 2022





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

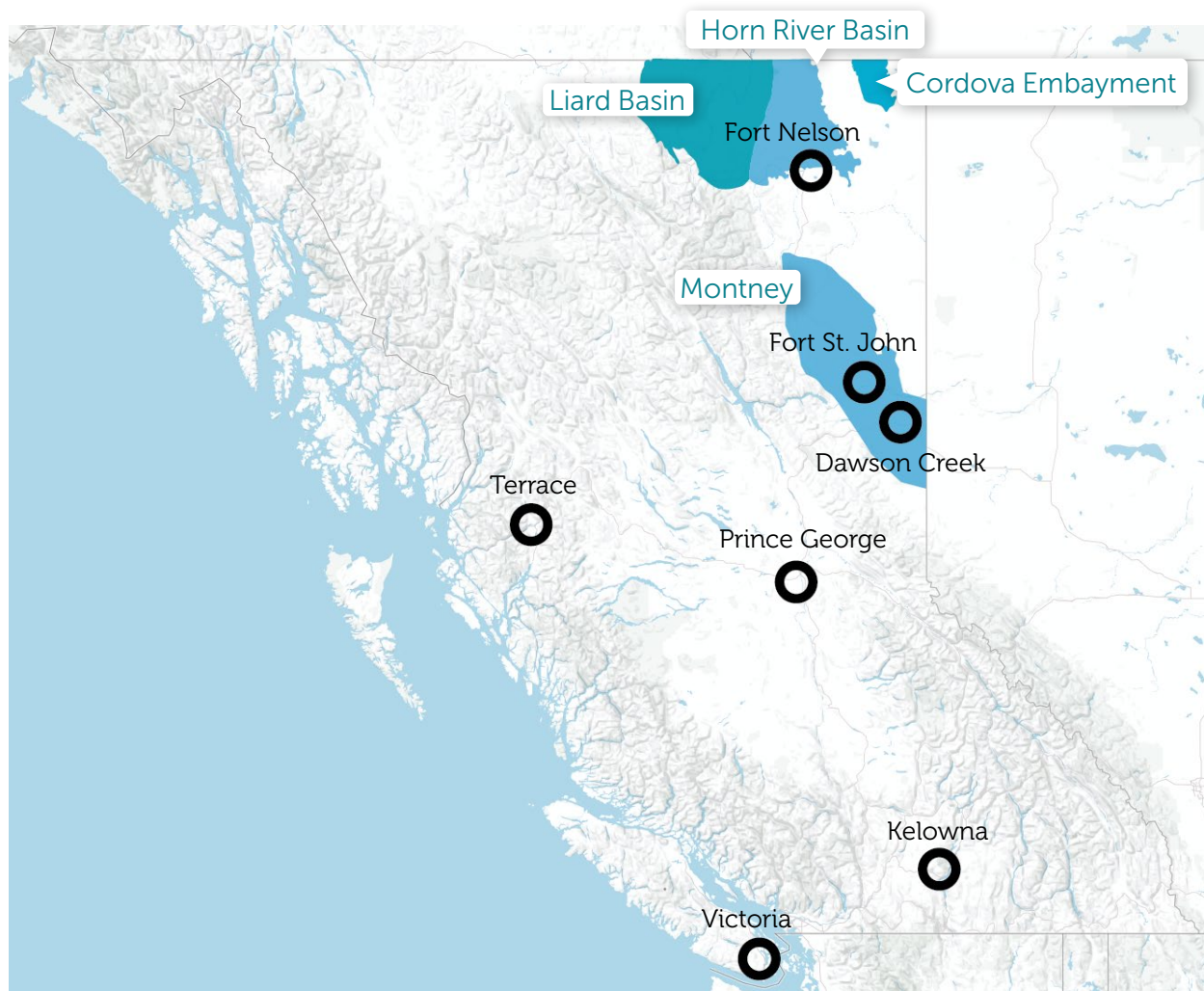
During our review and decision-making processes, we work closely with [land owners](#), [rights holders](#), and [Indigenous communities](#).

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 April to June there were 276 water use approvals in place, representing 732 withdrawal locations, held by 33 companies (Table 1).

The total water volume available for use by short-term approvals active on the last day of June was 17,378,385 m³.

A total of 486,966 m³ was reported as withdrawn in the first half of 2022.

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

	End of Q1	End of Q2
Companies with Active Approvals	36	33
Active Approvals	248	276
Approved Withdrawal Locations	714	732
Volume Available for Use (m ³)	18,300,693	17,378,385
Cumulative Volume Reported Withdrawn (m³)	292,693	486,966

Long-Term Water Use

During April to June, 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 2,028,017 m³ was reported as withdrawn in the first half of 2022.

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

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Cumulative Volume Reported Withdrawn (m³)	684,428	2,028,017

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 April to June 2022

LICENCE #	LICENCEE	SOURCE	OGC WATER MGMT BASIN	ANNUAL APPROVAL (m³/YR)	WATER USE (m³/YR)
C112155	Whitecap Resources Inc.	Peace River	Lower Peace River	1,825,000	141,079
C133805	Peace View Hutterian Brethren Church	Dawson Creek Aquifer	Lower Peace River	250,000	400
C133847	Petronas Energy Canada	Spring & Unnamed Stream	Cameron River	7,374	43
C134104	Petronas Energy Canada	Unnamed Stream	Lower Halfway River	50,235	1,110
C134283	Ovintiv Canada ULC	Kiskatinaw River	Lower Kiskatinaw River	1,000,000	91,041
C134369	Tourmaline Oil Corp.	Beatton River	Upper Beatton River	750,000	132,626
C134447	Murphy Oil Company Ltd.	Kiskatinaw River	Middle Kiskatinaw River	600,000	167,102
C134469	ConocoPhillips Canada	Halfway River	Lower Halfway River	3,650,000	76,266
C134471	Petronas Energy Canada	Sikanni Chief River	Upper Sikanni Chief	2,993,000	181,095
C500172	Secure Energy Services	Aquifer 634	Lower Peace River	36,500	3,447
C500226	Veresen Energy Pipeline Inc.	Aquifer 621	Smoky River	5,500	920
C500345	Ovintiv Canada ULC	Unnamed Stream	Lower Kiskatinaw River	102,100	41,484
C500662	ARC Resources Ltd.	Kiskatinaw River	Lower Kiskatinaw River	1,100,000	164,243
C500794	Petronas Energy Canada Ltd.	FSJ Aquifer	Upper Beatton River	6,924	2,945
C501076	Ovintiv Canada ULC	Bissette Ck, Dawson Ck	Pouce Coupe River	482,000	99,118
C501120	Canlin Energy Corp.	FSJ Aquifer	Upper Beatton River	1,825	117
C501398	Umbrella Oilfield Ltd.	Chrissy Ck & FSJ Aquifer	Cameron River	150,000	27,357
C501672	ConocoPhillips Canada	Aquifer 451	Cache Creek	49,750	3,324
C501685	ConocoPhillips Canada	Aquifer 451	Cache Creek	160,235	5,916
C501773	Tourmaline Oil Corp.	FSJ Aquifer	Upper Beatton River	19,710	789
C501793	Canadian Natural Resources Limited (CNRL)	Aquifer 931	Milligan Creek	36,500	3,500
C501797	CNRL	Aquifer 931	Milligan Creek	23,725	2,980
C501865	Boundry Lake Sand & Gravel Ltd.	FSJ Aquifer	Lower Peace River	10,950	319
C502134	Petronas Energy Canada	FSJ Aquifer	Cameron River	4,015	484

At the end of June, water used by industry 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 (m ³ /YR)	WATER USE (m ³ /YR)
C502277	Peaceland Farm Ltd.	Aquifer 908	Lower Halfway River	360,000	1,284
C502295	Todd Energy Canada	FSJ Aquifer	Blueberry River	146,000	847
C502343	CNRL	Beatton River	Upper Beatton River	250,000	176,021
C502448	CNRL	Dawson Creek Bedrock	Murray River	5,475	235
C502452	CNRL	FSJ Aquifer	Kahntah River	3,650	56
C502455	CNRL	Dawson Creek Aquifer	Smoky River	1,095	220
C502462	CNRL	FSJ Aquifer	Kahntah River	7,300	807
C502467	CNRL	FSJ Aquifer	Upper Beatton River	3,650	43
C502795	CNRL	Aquifer 451	Blueberry River	3,650	335
C502900	Pineview Trucking & Excavating Ltd.	Unconsolidated Aquifer	Outside of NEBC	98,550	3,928
C502957	Time Travel Services Ltd.	Aquifer 928	Upper Peace River	10,000	34
C503048	Albright Flush Systems	Aquifer 451	Cache Creek	2,920	676
C503155	Inga Water Source Ltd.	Aquifer 451	Cache Creek	76,285	11,389

Apr-Jun (Q2) TOTAL: 1,343,587

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%	3,299	0.001%	17	1,575,519	0.315%	314,200	0.063%	499,408,440
Middle Beatton River	27	306,896	0.123%	2,899	0.001%	1	1,095	0.000%	0	0.000%	249,152,995
Middle Beatton Total (incl. Upper Beatton)	41	1,072,496	0.143%	6,198	0.001%	18	1,576,614	0.211%	314,200	0.042%	748,561,435
Milligan Creek	11	29,100	0.015%	0	0.000%	6	235,425	0.123%	9,564	0.005%	191,536,686
Blueberry River	25	631,906	0.215%	30,767	0.010%	4	198,925	0.068%	24,447	0.008%	293,278,540
Doig River	1	5,000	0.002%	2,695	0.001%	1	51,100	0.016%	0	0.000%	323,069,523
Lower Beatton River	2	519,600	0.376%	0	0.000%	1	20,730	0.015%	0	0.000%	138,262,629
BEATTON TOTAL	80	2,258,102	0.133%	39,660	0.002%	30	2,082,794	0.123%	348,211	0.021%	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	27	1,070,721	0.479%	18,284	0.008%	19	1,111,919	0.497%	28,363	0.013%	223,679,567
Lower Halfway River	0	0	0.009%	0	0.000%	9	5,448,688	3.596%	369,844	0.244%	151,526,991
HALFWAY TOTAL	28	1,570,721	0.067%	18,284	0.001%	29	6,632,607	0.281%	398,207	0.017%	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	4	133,002	0.018%	0	0.000%	0					737,930,022
Sukunka River	10	310,000	0.030%	35,076	0.003%	0					1,047,282,572
Sukunka River Total (includes Burnt)	14	443,002	0.025%	35,076	0.002%	0	0	0.000%	0	0.000%	1,785,212,594
Upper Pine River	1	18,000	0.001%	805	0.000%	0					1,466,884,035
Murray River	5	235,000	0.009%	0	0.000%	1	5,475	0.000%	339	0.000%	2,698,285,017
Lower Pine River	5	1,737,500	1.263%	143,836	0.105%	1	650,000	0.472%	0	0.000%	137,619,889
PINE TOTAL	25	2,433,502	0.040%	179,171	0.003%	2	655,475	0.011%	339	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					
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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	4	42,950	0.076%	0	0.000%	1	600,000	1.065%	167,102	0.297%	56,347,972
Middle Kiskatinaw Total (incl. West & East)	4	42,950	0.015%	0	0.000%	1	600,000	0.215%	167,102	0.060%	279,316,049
Lower Kiskatinaw River	16	651,722	0.727%	4,065	0.005%	10	3,198,317	3.567%	296,933	0.331%	89,659,847
KISKATINAW TOTAL	20	694,672	0.188%	4,065	0.001%	11	3,798,317	1.029%	464,035	0.126%	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		3,866		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%	44,856	0.060%	74,603,546
Pouce Coupe River	6	146,996	0.057%	0	0.000%	4	1,650,200	0.645%	110,261	0.043%	255,686,202
Lower Peace River	6	360,200	0.315%	0	0.000%	8	4,204,919	3.673%	298,190	0.260%	114,470,012
PEACE TOTAL (incl. Kisk/Pine/Moberly/Half/Beatton)	166	7,974,193	0.017%	241,726	0.001%	96	28,836,917	0.060%	1,709,321	0.004%	47,891,853,572
SMOKY RIVER											
Smoky River	3	27,000	0.001%	0	0.000%	2	6,595	0.000%	1,418	0.000%	2,669,506,123
SMOKY TOTAL	3	27,000	0.001%	0	0.000%	2	6,595	0.000%	1,418	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%	0	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%	0	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%	0	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%	298,707	0.037%	807,771,692
Middle Sikanni Chief River	25	334,543	0.035%	211	0.000%	4	29,203	0.003%	0	0.000%	949,755,794
Middle Sikanni Chief Total (incl. Upper Sikanni)	25	334,543	0.019%	211	0.000%	7	3,146,892	0.179%	298,707	0.017%	1,757,527,486
Lower Sikanni Chief	16	96,224	0.011%	952	0.000%	0					875,678,142
SIKANNI CHIEF TOTAL	41	430,767	0.016%	1,163	0.000%	7	3,146,892	0.120%	298,707	0.011%	2,633,205,628
FORT NELSON RIVER											
Kahntah River	33	168,648	0.042%	0	0.000%	2	10,950	0.003%	1,900	0.000%	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%	1,900	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)	77	616,615	0.014%	1,163	0.000%	9	3,157,842	0.073%	300,607	0.007%	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%	0	0.000%	0					515,348,901
Middle Ft Nelson Total (incl. Upper Ft. Nelson total, Muskwa Total, Prophet Total, Snake, Sahtaneh)	101	814,315	0.007%	1,163	0.000%	10	3,194,435	0.026%	300,607	0.002%	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	108	885,815	0.007%	3,5742	0.000%	10	3,194,435	0.024%	300,607	0.002%	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

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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)	109	905,815	0.001%	3,742	0.000%	10	3,194,435	0.005%	300,607	0.000%	64,373,155,962
PETITOT RIVER											
Sahdoanah River	22	55,000	0.022%	2,708	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%	5,192	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%	6,654	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.)	249	7,190,968	N/A	230,368	N/A	3	682,793	N/A	15,387	N/A	N/A
GRAND TOTAL	732	17,378,385	0.014%	486,966	0.000%	111	32,720,740	0.027%	2,028,017	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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