

Quarterly Oil and Gas Water Management Summary



Third Quarter 2020 (Jul - Sept)



PURPOSE

This *Quarterly Oil and Gas Water Management Summary* presents short-term water use and water licence data from the Q3 July to September 2020 period.

Previous annual water use reports and quarterly water management summaries are available on the BC Oil and Gas Commission website at www.bcogc.ca.

TABLE OF CONTENTS

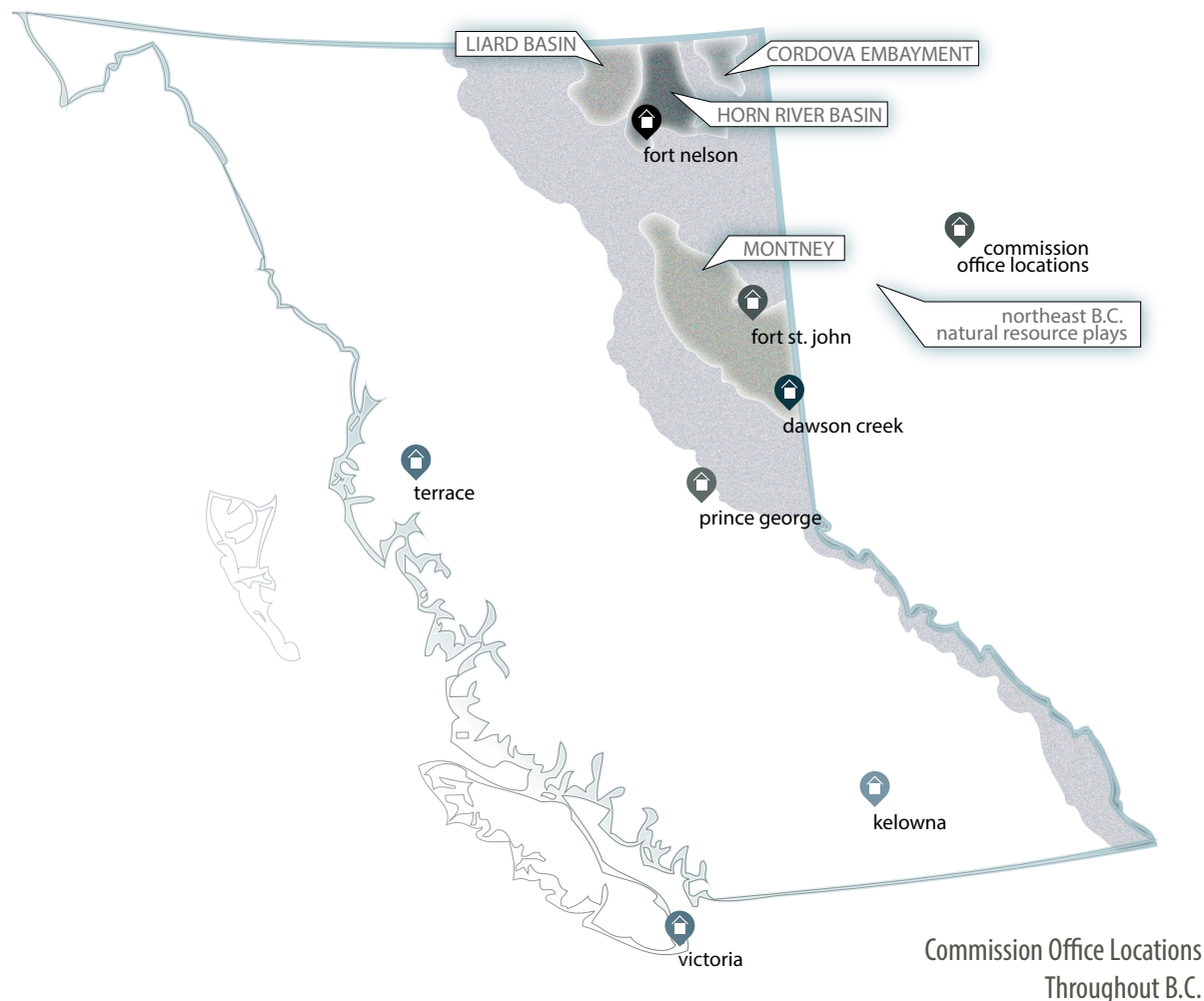
ROLE OF THE BC OIL AND GAS COMMISSION.....	4
HOW WATER IS USED	5
HOW WATER IS ACCESSED	5
SHORT-TERM WATER APPROVAL AND USE.....	6
TABLE 1 - SUMMARY OF SHORT-TERM APPROVAL AND USE FOR OIL AND GAS ACTIVITIES FROM JANUARY TO SEPTEMBER 2020	6
LONG-TERM WATER LICENCES AND USE.....	6
TABLE 2 - SUMMARY OF WATER LICENCE AND USE FOR OIL AND GAS ACTIVITIES FROM JANUARY TO SEPTEMBER 2020	6
TABLE 3 - OIL AND GAS RELATED WATER LICENCES THAT WITHDREW WATER IN 2020 - Q3	7
TABLE 4: SUMMARY OF WATER ALLOCATION AND USE FOR OIL AND GAS ACTIVITIES IN 2020, ORGANIZED BY OGC WATER MANAGEMENT BASIN.....	10

BC OIL AND GAS COMMISSION

The [BC Oil and Gas Commission](#) (Commission) is the provincial regulatory agency with responsibilities for regulating oil and gas activities in British Columbia, including exploration, development, pipeline transportation and reclamation.

The Commission's core services include reviewing and assessing applications for industry activity, consulting with First Nations, cooperating with partner agencies, and ensuring industry complies with provincial legislation and all regulatory requirements. The public interest is protected by ensuring public safety, respecting those affected by oil and gas activities, conserving the environment, and ensuring equitable participation in production.

The Commission is responsible for reviewing, assessing, and making decisions on water authorizations from both surface and subsurface water sources. The Commission has the expertise and tools to make informed water allocation decisions, and protecting and maintaining environmental and community water needs are its first priorities.



HOW WATER IS USED

Water is used for various purposes in the oil and gas industry.



The largest use of water for oil and gas activities is for hydraulic fracturing.

However, water is used for other purposes, such as:



Seismic or geophysical exploration



Drilling



Machine washing



Dust control



Water floods (to enhance oil recovery)



Ice road freezing



Hydrostatic testing of pipelines

HOW WATER IS ACCESSED

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 the Water Sustainability Act (WSA) for surface and groundwater. The Commission has staff designated as Regional Water Managers with authority for issuing and administering 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 the Oil and Gas Activities Act (OGAA). Water source wells are a specific type of well where the water withdrawn is intended for injection into an underground formation 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.

The oil and gas industry can access water by means outside of regulatory oversight:



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

SHORT-TERM WATER APPROVAL AND USE

During July to September of 2020, there were 305 short-term water use approvals in place, representing 815 withdrawal locations, held by 44 companies (Table 1).

The total water volume associated with short-term approvals active on the last day of the third quarter was 15,891,446 m³.

A total of 533,934 m³ was reported as withdrawn by oil and gas operators during the first three quarters of 2020.

TABLE 1 - SUMMARY OF SHORT-TERM APPROVAL AND USE FOR OIL AND GAS ACTIVITIES FROM JANUARY TO SEPTEMBER 2020

	Q1	Q2	Q3
SHORT-TERM			
Companies with Active Approvals	49	44	44
Active Approvals	254	273	305
Approved Withdrawal Locations	734	768	815
Volume Available for Use (m ³)	13,053,459	14,404,277	15,891,446
Cumulative Volume Reported Withdrawn (m ³)	*192,708	*314,524	533,934

A break-down of short-term water approval and use by OGC Water Management Basin is listed in Table 4.

*Q1 and Q2 totals updated in Q3 due to delayed reporting.

LONG-TERM WATER LICENCES AND USE

In the third quarter of 2020, there were 98 active oil and gas related water licences, representing 103 withdrawal locations, held by 29 companies (Table 2).

The total annual volume available for use for water licences was 31,247,345 m³.

A total of 2,666,313 m³ of licenced water was reported withdrawn during the first three quarters of 2020. Companies with active licences in Q3 are listed in Table 3.

TABLE 2 - SUMMARY OF WATER LICENCE AND USE FOR OIL AND GAS ACTIVITIES FROM JANUARY TO SEPTEMBER 2020

	Q1	Q2	Q3
WATER LICENCE			
Companies with Active Water Licences	23	26	29
Active Water Licences	90	95	98
Licensed Withdrawal Locations	95	100	103
Annual Volume Available for Use for Water Licences (m ³)	30,383,754	30,687,608	31,247,345
Cumulative Volume Reported Withdrawn (m ³)	*623,394	*1,629,907	2,666,313

A break-down of water licence allocation and use by OGC Water Management Basin is listed in Table 4.

*Q1 and Q2 totals updated in Q3 due to delayed reporting.

TABLE 3: OIL AND GAS RELATED WATER LICENCES THAT WITHDREW WATER FROM JULY TO SEPTEMBER 2020

LICENCE #	LICENCEE	SOURCE	OGC WATER MGMT BASIN	ANNUAL APPROVAL (m ³ /YR)	2020 WATER USE (m ³ /YR)
C112155	Whitecap Resources Inc.	Peace River	Lower Peace River	1,825,000	141,199
C133805	Peace View Hutterian Brethren Church	Dawson Creek Aquifer	Lower Peace River	250,000	52,616
C133847	Petronas Energy Canada	Unnamed Aquifer	Cameron River	7,374	515
C133853	Petronas Energy Canada	Barker Creek Tributary	Middle Sikanni Chief River	7,264	300
C134093	Petronas Energy Canada	Grewatsch Creek Tributary	Upper Beatton River	54,368	465
C134104	Petronas Energy Canada	Unnamed Stream	Lower Halfway River	50,235	3,886
C134110	Petronas Energy Canada	Unnamed Stream	Cameron River	79,045	3,560
C134112	Canadian Natural Resources Ltd (CNRL)	Pine River	Lower Pine River	650,000	101,813
C134369	Saguaro Resources Ltd.	Beatton River	Upper Beatton River	750,000	33,068
C134469	ConocoPhillips Canada	Halfway River	Lower Halfway River	3,650,000	265,068
C134471	Petronas Energy Canada	Sikanni Chief River	Upper Sikanni Chief	2,993,000	86,328
C500172	Tervita Corporation	Aquifer 634	Lower Peace River	36,500	2,941
C500226	Veresen Energy Pipeline	Aquifer 621	Smoky River	5,500	895
C500335	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	13,670	480
C500345	Ovintiv Canada ULC	Unnamed Stream	Lower Kiskatinaw River	102,100	6,646
C500355	Ovintiv Canada ULC	Dugout nr Eight Mile Creek	Lower Peace River	90,000	50,887
C500662	ARC Resources	Kiskatinaw River	Lower Kiskatinaw River	1,100,000	147,655
C500794	Petronas Energy Canada	FSJ Aquifer	Upper Beatton River	6,924	2,340
C501120	Canlin Energy Corp.	FSJ Aquifer	Upper Beatton River	1,825	102
C501357	Pineview Trucking/Excav.	Unnamed Aquifer	Parsnip River (Outside NEBC)	98,550	4,507
C501398	Umbrella Oilfield Ltd.	Chrissy Creek/FSJ Aquifer	Cameron River	150,000	56,779
C501578	Ovintiv Canada ULC	Aquifer 593	Lower Kiskatinaw	120,000	59,891
C501685	Kelt Exploration Ltd.	Aquifer 451	Cache Creek	160,235	0.64
C501773	Black Swan Energy Ltd.	FSJ Aquifer	Upper Beatton River	19,710	1,118
C501791	CNRL	Aquifer 931	Milligan Creek	36,500	3,198
C501793	CNRL	Aquifer 931	Milligan Creek	36,500	2,830
C501794	CNRL	Aquifer 931	Milligan Creek	51,100	4,264
C501797	CNRL	Aquifer 931	Milligan Creek	23,725	899
C501865	Boundry Lake Sand & Gravel	FSJ Unconsolidated	Lower Peace River	10,950	179
C502277	Peaceland Farm Ltd.	Aquifer 908	Lower Halfway River	360,000	79
C502452	CNRL	FSJ Aquifer	Kahntah River	3,650	95
C502455	CNRL	Dawson Creek Aquifer	Smoky River	1,095	337
C502462	CNRL	FSJ Aquifer	Kahntah River	7,300	1,161
C502467	CNRL	FSJ Aquifer	Upper Beatton River	3,650	45
C502555	CNRL	Aquifer 451	Blueberry River	3,650	256

TABLE 4 - SUMMARY OF WATER ALLOCATION
AND USE FOR OIL AND GAS ACTIVITIES IN 2020,
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 WITHDRAWAL LOCATIONS	TOTAL VOLUME APPROVED (m³)	TOTAL VOLUME APPROVED as % of MEAN ANNUAL RUNOFF	TOTAL VOLUME WITHDRAWN IN 2020 (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 2020 (m³)	TOTAL VOLUME WITHDRAWN as % of MEAN ANNUAL RUNOFF	MEAN ANNUAL RUNOFF (m³)
BEATTON RIVER (sub-basin of Peace River)											
Upper Beatton River	12	236,810	0.047%	45,503	0.009%	18	2,105,519	0.422%	52,737	0.011%	499,408,440
Middle Beatton River	2	42,000	0.017%	3,795	0.002%	1	1,095	0.000%	60	0.000%	249,152,995
Middle Beatton Total (incl. Upper Beatton)	14	278,810	0.037%	49,298	0.007%	19	2,106,614	0.281%	52,797	0.007%	748,561,435
Milligan Creek	8	118,000	0.062%	2,380	0.001%	5	211,700	0.111%	32,159	0.017%	191,536,686
Blueberry River	43	1,609,506	0.549%	73,461	0.025%	4	198,925	0.068%	812	0.000%	293,278,540
Doig River	9	91,000	0.028%	306	0.000%	1	51,100	0.016%	0	0.000%	323,069,523
Lower Beatton River	26	179,738	0.130%	0	0.000%	2	417,725	0.302%	15,661	0.011%	138,262,629
BEATTON TOTAL	100	2,277,054	0.134%	125,455	0.007%	31	2,986,064	0.176%	101,429	0.006%	1,694,708,813
HALFWAY RIVER (sub-basin of Peace River)											
Chowade River	0					0					327,027,527
Upper Halfway River	0					1	72,000	0.009%	0	0.000%	795,962,409
Upper Halfway Total (includes Chowade)	0	0	0.000%	0	0.000%	1	72,000	0.006%	0	0.000%	1,122,989,936
Graham River	1	2,400	0.000%	0	0.000%	0					860,627,172
Cameron River	37	921,968	0.412%	81,647	0.037%	17	929,629	0.416%	71,102	0.032%	223,679,567
Lower Halfway River	14	931,413	0.615%	7,312	0.005%	8	4,198,688	2.771%	861,893	0.569%	151,526,991
HALFWAY TOTAL	52	1,855,781	0.079%	88,959	0.004%	26	5,200,317	0.220%	932,995	0.040%	2,358,823,666
MOBERLY RIVER (sub-basin of Peace River)											
Moberly River	3	35,441	0.009%	933	0.000%	0					391,714,995
MOBERLY TOTAL	3	35,441	0.009%	933	0.000%	0	0	0.000%	0	0.000%	391,714,995
PINE RIVER (sub-basin of Peace River)											
Burnt River	1	39,000	0.005%	0	0.000%	0					737,930,022
Sukunka River	12	289,000	0.028%	0	0.000%	0					1,047,282,572
Sukunka River Total (includes Burnt)	13	328,000	0.018%	0	0.000%	0	0	0.000%	0	0.000%	1,785,212,594
Upper Pine River	0					0					1,466,884,035
Murray River	9	238,850	0.008%	2,076	0.000%	1	5,475	0.000%	779	0.000%	2,698,285,017
Lower Pine River	33	668,186	0.486%	56,450	0.041%	1	650,000	0.472%	101,813	0.074%	137,619,889
PINE TOTAL	55	1,220,036	0.020%	58,526	0.001%	2	655,475	0.011%	102,592	0.002%	6,088,001,535

MAJOR and Sub-Basin Name	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	9	147,846	0.262%	840	0.001%	1	600,000	1.065%	0	0.000%	56,347,972
Middle Kiskatinaw Total (incl. West & East)	9	147,846	0.053%	840	0.000%	1	600,000	0.215%	0	0.000%	279,316,049
Lower Kiskatinaw River	36	1,680,889	1.875%	9,317	0.010%	9	2,948,317	3.288%	415,290	0.463%	89,659,847
KISKATINAW TOTAL	45	1,828,735	0.496%	10,157	0.003%	10	3,548,317	0.962%	415,290	0.113%	368,975,896
PEACE RIVER											
Peace Arm	0					3	9,125,000	N/A	36,154	N/A	N/A
Upper Peace River	4	781,998	0.002%	0	0.000%	0					36,423,413,429
Lynx Creek	3	43,996	0.145%	0	0.000%	0					30,436,635
Farrell Creek	11	386,056	0.424%	65,097	0.072%	0					91,018,843
Cache Creek	8	106,120	0.142%	544	0.001%	5	577,230	0.774%	108,268	0.145%	74,603,546
Pouce Coupe River	24	837,186	0.327%	46,267	0.018%	4	1,650,200	0.645%	66,131	0.026%	255,686,202
Lower Peace River	18	814,976	0.712%	48,724	0.043%	8	4,204,919	3.673%	554,701	0.483%	114,470,012
PEACE TOTAL (incl. Kisk/Pine/Moberly/Half/Beaton)	323	10,187,379	0.021%	444,652	0.001%	89	27,947,522	0.058%	2,317,560	0.005%	47,891,853,572
SMOKY RIVER											
Smoky River	3	9,000	0.000%	0	0.000%	2	6,595	0.000%	4,063	0.000%	2,669,506,123
SMOKY TOTAL	3	9,000	0.000%	0	0.000%	2	6,595	0.000%	4,063	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	0					0					646,841,560
MUSKWA TOTAL	0	0	0.000%	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	2	1,500	0.000%	176	0.000%	1	36,593	0.002%	0	0.000%	1,470,271,289
Middle Prophet River	5	30,700	0.005%	242	0.000%	0					621,428,680
Middle Prophet Total (incl. Upper Prophet)	5	30,700	0.001%	418	0.000%	1	36,593	0.002%	0	0.000%	2,091,699,969
Lower Prophet River	1	3,900	0.001%	0	0.000%	0					272,262,427
PROPHET TOTAL	6	34,600	0.001%	418	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					
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SIKANNI CHIEF RIVER (sub-basin of Fort Nelson River)											
Upper Sikanni Chief River	4	50,000	0.006%	0	0.000%	3	3,117,689	0.386%	332,261	0.041%	807,771,692
Middle Sikanni Chief River	26	225,625	0.024%	2,261	0.000%	4	29,203	0.003%	300	0.000%	949,755,794
Middle Sikanni Chief Total (incl. Upper Sikanni)	30	275,625	0.016%	2,261	0.000%	7	3,146,892	0.179%	332,561	0.019%	1,757,527,486
Lower Sikanni Chief	22	208,256	0.024%	11,914	0.001%	0					875,678,142
SIKANNI CHIEF TOTAL	52	483,881	0.018%	14,175	0.001%	7	3,146,892	0.120%	332,561	0.013%	2,633,205,628
FORT NELSON RIVER											
Kahntah River	31	178,248	0.044%	3,000	0.001%	2	10,950	0.003%	2,758	0.001%	400,582,903
Fontas River	4	27,200	0.005%	3,915	0.001%	0					591,531,903
Fontas Total (includes Kahntah)	35	205,448	0.021%	6,915	0.001%	2	10,950	0.001%	2,758	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)	87	689,329	0.016%	21,090	0.000%	9	3,157,842	0.073%	335,319	0.008%	4,303,636,908
Snake River	1	4,200	0.001%	0	0.000%	0					310,763,522
Sahtaneh River	13	65,300	0.014%	652	0.000%	0					474,904,729
Middle Fort Nelson River	1	15,000	0.000%	5,121	0.001%	0					515,348,901
Middle Ft Nelson Total (incl. Upper Ft. Nelson total, Muskwa Total, Prophet Total, Snake, Sahtaneh)	107	793,429	0.006%	27,281	0.000%	10	3,194,435	0.026%	335,319	0.003%	12,314,371,343
Kiwigana River	21	179,400	0.041%	1,436	0.000%	0					441,657,543
Lower Fort Nelson River	2	6,000	0.002%	896	0.000%	0					312,768,938
FORT NELSON TOTAL	130	978,829	0.007%	29,613	0.000%	10	3,194,435	0.024%	335,319	0.003%	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

OIL AND GAS RELATED SHORT-TERM WATER USE APPROVALS - SECTION 10						OIL AND GAS RELATED WATER LICENCES - SECTION 9					
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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	1	3,000	0.002%	280	0.000%	0					183,879,851
Dunedin River	0					0					820,464,167
Lower Liard River	1	2,000	0.000%	0	0.000%	0					1,236,634,664
LIARD TOTAL (incl. Fort Nelson)	132	983,829	0.002%	29,893	0.000%	10	3,194,435	0.005%	335,319	0.001%	64,373,155,962
PETITOT RIVER											
Sahdoanah River	5	25,800	0.010%	2,168	0.001%	0					252,625,362
Upper Petitot River	30	70,700	0.005%	0	0.000%	0					1,476,579,488
Tsea River	11	151,234	0.035%	549	0.000%	0					434,062,484
Middle Petitot River	19	91,300	0.013%	0	0.000%	0					698,562,753
Middle Petitot Total (incl. Sahdoanah, Upper Petitot, Tsea)	65	339,034	0.012%	2,717	0.000%	0	0	0.000%	0	0.000%	2,861,830,087
Lower Petitot River	21	175,400	0.019%	0	0.000%	0					904,314,069
PETITOT TOTAL	86	514,434	0.014%	2,717	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	4	20,600	0.014%	0	0.000%	0					145,897,691
Shekilie River	26	158,900	0.035%	0	0.000%	0					450,747,494
Lower Kotcho River	1	3,000	0.001%	538	0.000%	0					311,519,217
Lower Kotcho Total (includes Upper Kotcho, Kyklo, Shekilie)	31	182,500	0.015%	538	0.000%	0	0	0.000%	0	0.000%	1,219,683,619
Hay River	26	180,000	0.033%	562	0.000%	0					538,672,352
HAY TOTAL	57	362,500	0.021%	1,100	0.000%	0	0	0.000%	0	0.000%	1,758,355,971
CHINCHAGA RIVER											
Chinchaga River	41	279,100	0.255%	773	0.001%	0					109,492,680
CHINCHAGA TOTAL	41	279,100	0.255%	773	0.001%	0	0	0.000%	0	0.000%	109,492,680
OTHER (outside Northeast B.C.)	173	3,538,704	N/A	51,545	N/A	2	98,793	N/A	9,371	N/A	N/A
GRAND TOTAL	815	15,891,446	0.013%	533,934	0.000%	103	31,247,345	0.026%	2,666,313	0.002%	120,568,508,464



Previous annual water reports and quarterly updates
are available on the Commission's website at:

<https://www.bcogc.ca/data-reports>.

For specific questions or enquiries
regarding this data, please contact:

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