

Our file
(4693.wp)

Mr. Bruce França
Deputy Chief
Office of Engineering and Technology
Federal Communications Commission
Washington, D.C. 20554
U.S.A.

Dear Mr. França:

Re: Arrangement between the Federal Communications Commission and the National Telecommunications and Information Administration of the United States of America and Industry Canada concerning the use of the bands 932 to 935 MHz and 941 to 944 MHz along the United States - Canada border (22 September 1994).

Please find enclosed lists of existing Canadian stations and the U.S. stations (provided by FCC) which qualify under the "grandfather" provision as referenced in Section 2.3 of the above-noted Arrangement. Also included are diskettes containing this information. Please sign below to confirm your acceptance of these lists.

Yours truly,

Robert W. McCaughern
Deputy Director General
Engineering Programs Branch
Industry Canada

Bruce A. França

Att.

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

IN REPLY REFER TO:
1300A5

September 19, 1994

Mr. Michael Binder
Senior Assistant Deputy Minister
Industry Canada
300 Slater Street
Ottawa, Ontario
K1A 0C8
CANADA

Dear Mr. Binder:

Industry Canada and the Federal Communications Commission of the United States of America have jointly developed a sharing agreement for the point-to-point and point-to-multipoint fixed services in the 932 to 935 MHz and 941 to 944 MHz bands. This Arrangement is based on discussions between representatives from both countries in the Technical Radio Liaison Committee (RTLCL) meeting.

On behalf of Richard M. Smith, Chief, Office of Engineering and Technology, Federal Communications Commission and Richard D. Parlow, Associate Administrator, National Telecommunications and Information Administration, United States Department of Commerce, I would like to forward for your approval the final document which we believe will satisfy both countries' spectrum needs in the 932 to 935 MHz and 941 to 944 MHz bands. This Arrangement would be applied provisionally until the definitive entry into force of a replacement for the *Agreement concerning the Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second*, with Annex (*Above 30 MHz Agreement*), as amended.¹

¹ Exchange of Notes at Ottawa, October 24, 1962. Entered into force October 24, 1962. USA: *Treaties and Other International Acts Series* (TIAS) 5205; CAN: *Canada Treaty Series* (CTS) 1962 No. 15.

Agreement Revising the Technical Annex to the Agreement of October 24, 1962 (TIAS 5205/CTS 1962 No. 15). Effected by Exchange of Notes at Ottawa, June 16 and 24, 1965. Entered into force June 24, 1965. USA: TIAS 5833 / CAN: CTS 1962 No. 15.

Upon approval by your Department, we propose that it constitute an Arrangement modifying the "Technical Annex" of *Above 30 MHz Agreement*. This Arrangement will become effective upon receipt of your signed copy of the enclosed Arrangement. Also attached for your information is the list of existing U.S. stations which qualify under the "grandfather" provision as referenced in Section 2.3 of the Arrangement, plus a microdisk containing data on the stations' transmit and receive sites.

Sincerely,

Bruce A. França
Deputy Chief
Office of Engineering and
Technology

Enclosures

**ARRANGEMENT BETWEEN THE FEDERAL COMMUNICATIONS COMMISSION AND
THE NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION
OF THE UNITED STATES OF AMERICA, AND INDUSTRY CANADA
CONCERNING THE USE OF THE BANDS 932 TO 935 MHz AND 941 TO 944 MHz
ALONG THE UNITED STATES - CANADA BORDER**

1. This Arrangement between the Federal Communications Commission and the National Telecommunications and Information Administration of the United States of America on the one hand, and Industry Canada¹ on the other hand, herein referred to as the Agencies, covers the coordination and use of the bands 932-935 MHz and 941-944 MHz for point-to-multipoint and point-to-point communications systems in the vicinity of the United States - Canada border.
 - 1.1 The coordinating agency for the United States of America is the Federal Communications Commission while the coordinating agency for Canada is Industry Canada.
2. Arrangement for point-to-point systems in the band segments 932.5-935.0 MHz and 941.5-944.0 MHz:
 - 2.1 Use of frequencies within the band segments 932.5-935.0 MHz and 941.5-944.0 MHz shall be governed by the provisions of Arrangement A of the *Agreement concerning the Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second* with Annex² as amended,³ except that the following shall replace paragraphs 2(b)(1) and 2(b)(2):
 - 2.1.1 For a station the antenna of which looks within the 200° sector toward the Canada-United States borders, that area in each country within 120 km of the borders; and
 - 2.1.2 For a station the antenna of which looks within the 160° sector away from the Canada-United States borders, that area in each country within 60 km of the borders.
 - 2.2 Technical criteria of Annex A will apply within the areas described in Section 2.1.

¹ Formerly the Department of Communications of Canada.

² Exchange of Notes at Ottawa, October 24, 1962. Entered into force October 24, 1962. USA: *Treaties and Other International Acts Series (TIAS) 5205*, CAN: *Canada Treaty Series (CTS) 1962 No. 15*.

³ *Agreement Revising the Technical Annex to the Agreement of October 24, 1962 (TIAS 5205/CTS 1962 No. 15)*. Effected by Exchange of Notes at Ottawa, June 16 and 24, 1965. Entered into force June 24, 1965. USA: TIAS 5833 / CAN: CTS 1962 No. 15, as amended June 24, 1965.

2.3 Stations authorized to operate in these bands by either Administration prior to acceptance of this Arrangement may continue to operate under the terms of their authorizations existing at the time of acceptance of this agreement. These stations shall be protected from interference from subsequently licensed co-channel stations of the other country.⁴

3. Arrangement for point-to-multipoint systems in the band segments 932.0-932.5 MHz and 941.0-941.5 MHz:

3.1 Notwithstanding any other provision of this Arrangement, beyond Lines A and B and Lines C and D,⁵ each country shall have full use of the entire 932.0-932.5 MHz and 941.0-941.5 MHz bands.

3.2 Between Lines A and B and Lines C and D, the frequencies shall be used as follows, consistent with the technical criteria of Annex B:

932.0 - 932.25 MHz and 941.0 - 941.25 MHz

Canada has full use of frequencies within these bands. The United States may also use these frequencies on an unprotected basis, provided its stations are limited to a power flux-density (pfd) of -100 dBW/m² at or beyond the United States - Canada border for the frequency band 932-932.25 MHz and -94 dBW/m² at or beyond the United States - Canada border for the band 941.0-941.25 MHz.

932.25 - 932.50 MHz and 941.25 - 941.50 MHz

The United States has full use of frequencies within these bands. Canada may also use these frequencies on an unprotected basis, provided its stations are limited to a pfd of -100 dBW/m² at or beyond the United States - Canada border for the frequency band 932.25-932.5 MHz and -94 dBW/m² at or beyond the United States - Canada border for the band 941.25-941.50 MHz.

3.3 Wherever this Arrangement provides that a power flux-density limit must be met, a calculation based on free space propagation should be used to determine whether such limits would be met. Other methods may be applied as appropriate. Regardless of the calculations performed, however, actual operation on frequencies primarily assigned for use by the other country must not result in such pfd limit being exceeded at or anywhere beyond the border in the other country.

3.3.1 Technical criteria of Annex B will apply within the areas described in Section 3.2.

⁴ For purposes of this arrangement, "co-channel" shall mean any two channels whose occupied bandwidths overlap.

⁵ See: *Agreement concerning the Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second*, with Annex, as amended.

4. This Arrangement supersedes the provisions of:

- (1) Item 36 of the "Technical Annex" to the *Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second*, with Annex, as amended which states that the coordinating agencies are the JCS (USA) and the CDS (CAN), and that coordination is to be effected pursuant to "Arrangement C" (fixed RADARs) to the *Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second*, with Annex, as amended for the band 890.0-960.0 MHz; and
- (2) Item 37 of the "Technical Annex" to the *Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second*, with Annex, as amended which states that the coordinating agencies are the FCC (USA) and the DOT (CAN), and that coordination is to be effected pursuant to "Arrangement A" to the *Coordination and Use of Radio Frequencies Above Thirty Megacycles per Second*, with Annex, as amended for the band 942.0-944.0 MHz.

For the Federal Communications
Commission

Richard M. Smith
Chief
Office of Engineering and Technology

Date:

For Industry Canada

Michael Binder
Assistant Deputy Minister
Spectrum, Information Technologies
and Telecommunications

Date: September 22, 1994

For the National Telecommunications
and Information Administration

Richard D. Parlow
Associate Administrator

Date: September 15, 1994

Technical criteria applicable to point-to-point stations operating in the 932.5 to 935.0 MHz and 941.5 to 944.0 MHz band segments in accordance with this Arrangement

1. Maximum equivalent isotropically radiated power (EIRP): 30 dBW.
2. Antenna Standards

Stations must employ antennas that meet the performance standards for Category A, except that, subject to frequency coordination, antennas meeting standards for Category B may be employed. Note, however, that the use of high performance antennas (Category A or better) will be required where interference problems can be resolved by the use of such antennas.

Antenna Type	Maximum Beamwidth to 3 dB points	Minimum radiation suppression to angle in degrees from centerline of main beam in decibels						
	(included angle in degrees)	5° to 10°	10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
Category A	14.0	-	6	11	14	17	20	24
Category B	20.0	-	-	6	10	13	15	20

Technical criteria applicable to point-to-multipoint stations operating in accordance with this Arrangement

1. Maximum radiated power:

Class of Station	Band	Maximum EIRP		Maximum ERP	
	MHz	Watts	dBW	Watts	dBW
Master	941.0 - 941.5	1000	30	600	27.8
Fixed Remote and Master	932.0 - 932.5	50	17	30	14.8

2. The maximum antenna height above average terrain for master stations operating at maximum power shall not exceed 150 meters. Above 150 meters, the power of master stations shall be in accordance with the following Table.

Antenna Height Above Average Terrain (meters)	EIRP		ERP	
	Watts	dBW	Watts	dBW
Above 305	200	23	120	20.8
Above 275 to 305	250	24	150	21.8
Above 245 to 275	315	25	190	22.8
Above 215 to 245	400	26	240	23.8
Above 180 to 215	500	27	300	24.8
Above 150 to 180	630	28	380	25.8

3. Terms and definitions:

EIRP equivalent isotropically radiated power

ERP effective radiated power (reference dipole antenna)

$$ERP = \frac{EIRP}{1.64}$$

where: EIRP and ERP in dBW

4. Formula used for calculating free space propagation losses:

$$pfd \text{ (dBW/m}^2\text{)} = 10 \log \left[\frac{EIRP}{4 \pi D^2} \right]$$

where:

pfd in dBW/m²,

EIRP in watts,

D in meters, and

power is relative to an isotropic radiator.

**GRANDFATHERED LIST OF U.S. STATIONS
932-935 MHz AND 941-944 MHz**

User/ Call sign	Frequency (MHz)	Location	Lat	Long	Emission	Xmtr Pwr (Watts)
NG/WLS 935	932.512500	BREWER, ME	444712	0684525	25K00F9W	10
GOVERNMENT	932.562500	DETROIT, MI	421246	0832204	16K00F2D	1
GOVERNMENT	932.562500	BUFFALO, NY	425544	0783847	16K00F2D	1
GOVERNMENT	932.562500	CLEVELAND, OH	412505	0815015	16K00F2D	1
GOVERNMENT	932.562500	SEATTLE, WA	472752	1221827	16K00F2D	1
GOVERNMENT	932.587500	SEATTLE, WA	472607	1221834	16K00F2D	1
NG/WLS 914	932.825000	GRAND ISLAND, NY	430148	0785515	100K00F9W	5
GOVERNMENT	932.825000	CAPITAL PEAK, WA	465830	1230800	100K00F9W	5
GOVERNMENT	932.825000	GREEN MT., WA	480740	1214609	100K00F9W	5
GOVERNMENT	932.825000	QUILCENE, WA	474921	1225358	100K00F9W	5
GOVERNMENT	932.825000	SEATTLE, WA	473623	1221951	100K00F9W	5
GOVERNMENT	932.825000	SHELTON, WA	471256	1230546	100K00F9W	5
GOVERNMENT	932.825000	SNIDER, WA	480455	1240706	100K00F9W	5
GOVERNMENT	932.825000	VERLOT, WA	480526	1214634	100K00F9W	5
GOVERNMENT	932.925000	FORKS, WA	475702	1242303	100K00F9W	5
GOVERNMENT	932.925000	FORT LAWTON, WA	473939	1222500	100K00F9W	5
GOVERNMENT	932.925000	GLACIER, WA	485325	1215640	100K00F9W	5
GOVERNMENT	932.925000	HUMPTULIPS, WA	472118	1234609	100K00F9W	5
GOVERNMENT	932.925000	LOUELLA, WA	475947	1230501	100K00F9W	5
GOVERNMENT	932.925000	OLYMPIA, WA	470217	1225358	100K00F9W	5
GOVERNMENT	932.925000	SATSOP, WA	472206	1233351	100K00F9W	5
GOVERNMENT	933.025000	DARRINGTON, WA	481520	1213601	100K00F9W	5
GOVERNMENT	933.025000	GREEN MT., WA	480740	1214609	100K00F9W	5
GOVERNMENT	933.025000	HOODSPORT, WA	472427	1230817	100K00F9W	5
GOVERNMENT	933.025000	NORTH MT., WA	481906	1213605	100K00F9W	5
GOVERNMENT	933.025000	OLYMPIA, WA	470217	1225358	100K00F9W	5
GOVERNMENT	933.025000	QUILCENE, WA	474921	1225358	100K00F9W	5
GOVERNMENT	933.025000	QUINAULT, WA	473006	1234919	100K00F9W	5
GOVERNMENT	933.025000	SEDRO WOOLLEY, WA	483014	1221410	100K00F9W	5
NG/WLS 981	933.175000	SOUTHFIELD, MI	422841	0831447	200K00F9W	1.6
GOVERNMENT	933.175000	RUGBY SUBSTATION, ND	482110	0995950	200K00F9WWF	5
NG/WLT 207	933.175000	ROCHESTER, NY	430941	0773753	200K00F9W	2
GOVERNMENT	933.175000	BLYN, WA	475959	1225805	200K00F9W	20
GOVERNMENT	933.175000	BOEING FIELD, WA	473148	1221806	200K00F9W	20
GOVERNMENT	933.175000	MOUNT ELLIS, WA	480751	1241818	200K00F9W	5
GOVERNMENT	933.375000	MT. HORACE GREELEY, MI	472214	0881011	200K00F9W	25
GOVERNMENT	933.375000	LAKESIDE, MT	480001	1142152	200K00F9W	20
GOVERNMENT	933.375000	EVERETT, WA	475410	1221716	200K00F9W	20
GOVERNMENT	933.375000	MT. CONSTITUTION, WA	483959	1225005	200K00F9W	20
GOVERNMENT	933.575000	LEEDS SUBSTATION, ND	481512	0992611	200K00F9WWF	5
NG/WLT 210	933.575000	OSWEGO, NY	432456	0762754	200K00F9W	2
GOVERNMENT	933.575000	BOEING FIELD, WA	473148	1221806	200K00F9W	20
NG/WLT 207	933.775000	ROCHESTER, NY	430941	0773753	200K00F9W	2
GOVERNMENT	933.775000	MT. CONSTITUTION, WA	4841XX	12250XX	200K00F9W	5

User/ Call sign	Frequency (MHz)	Location	Lat	Long	Emission	Xmtr Pwr (Watts)
GOVERNMENT	933.775000	NEAH BAY, WA	482200	1243600	200K00F9W	5
GOVERNMENT	933.775000	SEATTLE, WA	473700	1221800	200K00F9W	5
GOVERNMENT	933.775000	TACOMA, WA	470759	1222904	200K00F9W	20
GOVERNMENT	933.975000	LEEDS SUBSTATION, ND	481512	0992611	200K00F9WWF	5
GOVERNMENT	933.975000	BOEING FIELD, WA	473148	1221806	200K00F9W	20
GOVERNMENT	933.975000	WHIDBEY ISLAND, WA	481917	1223954	200K00F9W	20
GOVERNMENT	934.175000	LOGAN SUBSTATION, ND	480640	1011235	200K00F9WWF	5
NG/WLS 913	934.175000	SYRACUSE, NY	430602	0760548	200K00F9W	5
GOVERNMENT	934.175000	FORT LAWTON, WA	473927	1222446	200K00F9W	20
GOVERNMENT	934.375000	DEVILS LAKE SUBST., ND	480603	0985155	200K00F9WWF	5
GOVERNMENT	934.375000	BREMERTON, WA	472933	1224533	200K00F9W	20
NG/WLR 394	934.375000	ISSAQUAH, WA	473241	1220628	200K00F9W	1.5
GOVERNMENT	934.375000	SEATTLE, WA	4735XX	12220XX	200K00F9W	5
GOVERNMENT	934.525000	SEDRO WOOLLEY, WA	483014	1221410	100K00F9W	5
NG/WLS 936	941.512500	COPELAND, ME	444416	0684206	25K00F9W	10
GOVERNMENT	941.562500	DETROIT, MI	421200	0832223	16K00F2D	1
GOVERNMENT	941.562500	BUFFALO, NY	425607	0784347	16K00F2D	1
GOVERNMENT	941.562500	CLEVELAND, OH	412400	0815157	16K00F2D	1
GOVERNMENT	941.562500	SEATTLE, WA	472607	1221840	16K00F2D	1
GOVERNMENT	941.587500	SEATTLE, WA	472754	1221839	16K00F2D	1
NG/WLS 915	941.825000	BUFFALO, NY	425403	0785200	100K00F9W	5
GOVERNMENT	941.825000	BIG QUIL RIDGE, WA	474800	1225701	100K00F9W	5
GOVERNMENT	941.825000	BLYN MOUNTAIN, WA	480121	1230017	100K00F9W	5
GOVERNMENT	941.825000	BUCK MOUNTAIN, WA	480538	1205442	100K00F9W	5
GOVERNMENT	941.825000	GREEN MOUNTAIN, WA	480740	1214609	100K00F9W	5
GOVERNMENT	941.825000	MOUNT ELLIS, WA	480930	1241848	100K00F9W	5
GOVERNMENT	941.825000	NEILTON POINT, WA	472427	1235245	100K00F9W	5
GOVERNMENT	941.825000	SPOON POINT, WA	472110	1233352	100K00F9W	5
GOVERNMENT	941.925000	BLYN MOUNTAIN, WA	480121	1230017	100K00F9W	5
GOVERNMENT	941.925000	GOLD MOUNTAIN, WA	473256	1224705	100K00F9W	5
GOVERNMENT	941.925000	MT. CONSTITUTION, WA	484100	1225030	100K00F9W	5
GOVERNMENT	941.925000	MOUNT ELLIS, WA	480930	1241848	100K00F9W	5
GOVERNMENT	941.925000	NEILTON POINT, WA	472427	1235245	100K00F9W	5
GOVERNMENT	941.925000	SPOON POINT, WA	472110	1233352	100K00F9W	5
GOVERNMENT	941.925000	WEST CHURCH, WA	485537	1215251	100K00F9W	5
GOVERNMENT	942.025000	BLYN MOUNTAIN, WA	480121	1230017	100K00F9W	5
GOVERNMENT	942.025000	GOLD MOUNTAIN, WA	473256	1224705	100K00F9W	5
GOVERNMENT	942.025000	MT. CONSTITUTION, WA	484100	1225030	100K00F9W	5
GOVERNMENT	942.025000	MOUNT ELLIS, WA	480931	1241848	100K00F9W	5
GOVERNMENT	942.025000	NEILTON POINT, WA	472427	1235245	100K00F9W	5
GOVERNMENT	942.025000	QUEEN ANNE HILL, WA	473758	1222108	100K00F9D	1
GOVERNMENT	942.025000	SPOON POINT, WA	472110	1233352	100K00F9W	5
NG/WLS 980	942.175000	SOUTHFIELD, MI	422828	0831653	200K00F9W	1.6
GOVERNMENT	942.175000	RUGBY REPEATER, ND	483031	0994629	200K00F9WWF	5
NG/WLT 208	942.175000	S. BRISTOL, NY	424447	0772535	200K00F9W	2
GOVERNMENT	942.175000	BOEING FIELD, WA	473147	1221806	200K00F9W	20
GOVERNMENT	942.175000	QUILLAYUTE RIVER, WA	475450	1243758	200K00F9W	5
GOVERNMENT	942.175000	WHIDBEY ISLAND, WA	481917	1223954	200K00F9W	20
GOVERNMENT	942.375000	MOTT I, MI	480630	0883240	200K00F9W	25

User/ Call sign	Frequency (MHz)	Location	Lat	Long	Emission	Xmtr Pwr (Watts)
GOVERNMENT	942.375000	KALISPELL, MT	481251	1141032	200K00F9W	20
NG/WLT 200	942.375000	ROME, NY	431348	0752628	200K00F9W	5
GOVERNMENT	942.375000	FT LAWTON, WA	473927	1222447	200K00F9W	20
GOVERNMENT	942.375000	LOPEZ ISLAND, WA	482719	1225147	200K00F9W	20
NG/KWE 937	942.500000	WILLISTON, ND	480840	1033710	430K00F8E	5
NG/KEK 67	942.500000	BUFFALO, NY	425408	0785211	500K00F8E	5
GOVERNMENT	942.575000	RUGBY REPEATER, ND	483031	0994629	200K00F9WWF	5
NG/WLS 912	942.575000	LAFAYETTE, NY	425645	0760616	200K00F9W	2
GOVERNMENT	942.575000	BOEING FIELD, WA	473147	1221806	200K00F9W	20
NG/WLT 206	942.775000	FAIRPORT, NY	430210	0772524	200K00F9W	2
GOVERNMENT	942.775000	BAHOKUS PEAK, WA	482109	1244028	200K00F9W	5
GOVERNMENT	942.775000	GOLD MOUNTAIN, WA	473301	1224703	200K00F9W	5
GOVERNMENT	942.775000	MOUNT ERIE, WA	482717	1223729	200K00F9W	5
GOVERNMENT	942.775000	SEATTLE, WA	472656	1221833	200K00F9W	20
GOVERNMENT	942.975000	DEVILS LK REPEATER, ND	475901	0985608	200K00F9WWF	5
GOVERNMENT	942.975000	MT. CONSTITUTION, WA	483959	1225005	200K00F9W	20
GOVERNMENT	942.975000	SEATTLE, WA	472656	1221833	200K00F9W	20
NG/KWE 38	943.000000	WILLISTON, ND	480840	1033710	430K00F8E	5
NG/KEK 64	943.000000	BUFFALO, NY	425408	0785211	430K00F8E	5
NG/WAA 32	943.000000	ERIE, PA	420546	0800701	500K00F8E	5
GOVERNMENT	943.175000	MALLARD SUBSTATION,ND	481322	1011125	200K00F9WWF	5
NG/WLS 912	943.175000	LAFAYETTE, NY	425645	0760616	200K00F9W	5
GOVERNMENT	943.175000	BLYN, WA	475959	1225805	200K00F9W	20
GOVERNMENT	943.375000	DEVILS LK REPEATER, ND	475901	0985608	200K00F9WWF	5
GOVERNMENT	943.375000	SEATTLE, WA	4736XX	12219XX	200K00F9W	5
GOVERNMENT	943.375000	SEATTLE, WA	472656	1221833	200K00F9W	20
NG/WLR 393	943.375000	SEATTLE, WA	473625	1221925	200K00F9W	1.5
GOVERNMENT	943.525000	IRON MOUNTAIN, WA	482844	1215631	100K00F9W	5
NG/WLF 231	943.875000	ALPENA, MI	450340	0832855	250K00F8E	6.5
NG/WLO 824	944.000000	MEADVILLE, PA	413818	0800622	500K00F8E	6

NG-NONGOVERNMENT(FCC)

REVISED 10-13-94

**GRANDFATHERED LIST OF CANADIAN STATIONS
932-935 MHz AND 941-944 MHz**

Call sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Stn	Lat	Long
VBE728	932 00625		Cornwall, ON	450506	0744901	16K0F3EJN	6.6	Massena, NY		1132300
XOH292	932 50625	941 50625	Peigan, AB	493830	1133515	12K5F9WJN	63.1	F1 McLeod, AB	494350	1113331
XOW561	932 50625	941 50625	Winnifred, AB	495130	1111335	12K5F9WJN	64.6	Burdette, AB	494901	1125000
VBA402	932 50625	941 50625	Riverbend, AB	493630	1125201	12K5F9WJN	39.8	Lethbridge, AB	494340	0804442
VAZ457	932 50625	941 50625	Woodstock, ON	430504	0804454	16K0F3EJN	5.0	Woodstock, ON	430352	0973033
XNRF58	932 51250	941 51250	Springstein, MB	495012	0973043	25K0F9WWF	45.7	Sturbeck, MB	494615	0793300
VBE439	932 51250	941 51250	Etiobicoke, ON	434212	0793346	16K0F2DCN	8.3	Etiobicoke, ON	434145	0830222
VAZ894	932 51250	941 51250	Essex, ON	421031	0824924	16K0F3EJN	112.2	Windsor, ON	421857	1230733
XKA287	932 53750		Burnaby, BC	491338	1230004	16K0F3EJN	37.1	Vancouver, BC	491651	1230004
XJP217	932 53750	941 53750	Milvrin, ON	432922	0805828	16K0F3EJN	58.9	Burnaby, BC	491338	0810815
VBY900	932 53750	941 53750	Singhampton, ON	442408	0801548	16K0F3EJN	10.2	St Mary's, ON	431510	0801755
XMK821	932 53750	941 53750	Apsley, ON	445522	0780321	16K0F3EJN	25.7	Craigleith, ON	443133	0781712
XOW795	932 55000	941 55000	Lethbridge, AB	494215	1125005	100Kf7WEC	309.0	Buckhorn, ON	443459	1113022
CJO843	932 55000	941 55000	Stirling, AB	493015	1122930	100Kf9WJN	112.2	Bow Island, AB	495545	1122755
XOE21	932 55000	941 55000	Lethbridge, AB	494340	1125005	100Kf9WJN	112.2	Chin Coulee, AB	493837	1122930
VBL951	932 55000	941 55000	Cowley Ridge, AB	493310	1140600	100Kf9WJN	117.5	Tempest, AB	494005	1122930
VBW345	932 56250	941 56250	Youbou, BC	485233	1241308	16K0F3EJN	28.2	Pincher Creek, AB	493040	1135533
VBW335	932 56250	941 56250	Mesachie Lk, BC	484847	1240711	16K0F3EJN	28.2	Bald Min, BC	485024	1240955
VBW334	932 56250	941 56250	Lk Cowichan, BC	484935	1240405	16K0F3EJN	28.2	Bald Min, BC	485024	1240955
VBW332	932 56250	941 56250	Honeymoon Bay	484901	1241030	16K0F3EJN	28.2	Bald Min, BC	485024	1240955
VBW327	932 56250	941 56250	Caycuse, BC	485320	1242156	16K0F3EJN	28.2	Bald Min, BC	485024	1240955
VBW325	932 56250	941 56250	Maple Min, BC	485000	1233613	16K0F3EJN	24.0	Thetis Island, BC	485918	1234036
XLK694	932 58750	941 58750	Mt Ozzard, BC	485736	1252930	12K5F1DXN	100.0	Sahlam, BC	484655	1234744
VB1684	932 60000	941 60000	Railh, ON	484737	0895312	200Kf9WXX	251.2	North Oyster, BC	490303	1234928
XOK220	932 60625	941 60625	Parker Island, BC	485335	1232531	11K0F2DFN	9.50	Ladysmith, BC	485919	1234919
XOK785	932 60625	941 60625	Mayne Island, BC	485052	1231833	11K0F2DFN	10.0	Grofton, BC	485151	1233852
XOK933	932 60625	941 60625	Mayne Island, BC	484910	1231357	11K0F2DFN	7.90	Chemainus, BC	485524	1234302
XOK931	932 60625	941 60625	Saturna Is., BC	484710	1231153	11K0F2DFN	10.2	Duncan, BC	484726	1234241
XOK784	932 60625	941 60625	N. Pender Is., BC	484718	1231846	11K0F2DFN	10.2	Cape Flattery, USA		0892725
XOB95	932 60625	941 60625	Bruce Peak, BC	484600	1233031	11K0F2DFN	47.9	Dawson, ON	483027	0892725
								Bruce Peak, BC	484600	1233031
								Bruce Peak, BC	484600	1233031
								Bruce Peak, BC	484600	1233031
								Bruce Peak, BC	484600	1233031
								Bruce Peak, BC	484600	1233031
								Mayne Island, BC	484910	1231357
								N. Pender Is., BC	484718	1231357
									484910	1231357
									484718	1231846

2 to 935 MHz and 941 to 944 MHz

RA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Sin	Lat	Long
XOK580	932.60625	941.60625	Wahleach Lk., BC	491618	1213445	11K0F2DFN	3.20	Saturna Island, BC	484710	1231153
XOK218	932.60625	941.60625	English Bluff, BC	490028	1230516	11K0F2DFN	8.70	Parker Island, BC	485335	1232533
XMK821	932.63750	941.63750	Apsley, ON	445522	0780321	16K0F3EJN	25.7	Mayne Island, BC	485052	1231833
VBV900	932.66250	941.66250	Singhampton, ON	442408	0801548	16K0F3EJN	10.2	Maracaibo, BC	485157	1232705
VBW321	932.70625	941.70625	Big Sicker Mtn BC	485142	1234522	16K0F3EJN	7.90	English Bluff, BC	490028	1230516
VBV700	932.80000	941.80000	Hertel, PQ	452426	0732546	100KF8WXF	363.1	Jones Lake, BC	491355	1213711
VBV900	932.83750	941.83750	Singhampton, ON	442408	0801548	16K0F3EJN	22.4	Sardis, BC	490652	1220022
XOW561	932.90000	941.90000	Winnifred, AB	495130	1111335	100KF9WJN	53.7	Bruce Peak, BC	484600	1233303
VBW324	932.90625	941.90625	Honeymoon Bay	484901	1241030	16K0F3EJN	20.0	Bruce Peak, BC	485421	1232133
VBW845	932.95000	941.95000	Magrath, AB	492527	1125400	100KF9WJN	112.2	Galiano Island, BC	485418	1232133
VBV698	933.00000	942.00000	Chateauguay, PQ	451508	0735219	200KF8WXF	38.0	Galiano Island, BC	485418	1232133
VBW331	933.10625	942.10625	Duncan, BC	484651	1234220	16K0F3EJN	28.2	Buckhorn, ON	483459	0781712
VBW329	933.10625	942.10625	Cowichan, BC	484347	1233817	16K0F3EJN	28.2	Craigleith, ON	443133	0801756
VBW326	933.10625	942.10625	Mount Wood, BC	483615	1233522	16K0F3EJN	13.8	Duncan, BC	484726	1234241
VBW340	933.30625	942.30625	N. Cowichan, BC	484702	1234223	16K0F3EJN	28.2	Duncan, BC	484726	1234241
VBW339	933.30625	942.30625	Maple Bay, BC	484902	1233344	16K0F3EJN	28.2	Duncan, BC	484726	1234241
XKB372	933.31250		Toronto, ON	433856	0792257	16K0F3EJN	15.5	Duncan, BC	484726	1234241
VAJ443	933.33750		Toronto, ON	433833	0792315	16K0F1DCN	66.1	Toronto, ON	433856	0792257
								Pickering, ON	434935	0790532
								Richmond Hill, ON	435230	0792640
								Toronto, ON	434530	0793130
								North York, ON	434557	0792036
								Brampton, ON	434110	0794530
								Oshawa, ON	435426	0785214
								Oshawa, ON	435405	0785135
								Toronto, ON	433856	0792257
								Toronto, ON	433928	0792753
								Toronto, ON	434226	0792029
								Rexdale, ON	434108	0793548
								Mississauga, ON	433612	0794442
								Markham, ON	434903	0792055
								Scarborough, ON	434429	0791220
								Mississauga, ON	433525	0793815

932 to 935 MHz and 941 to 944 MHz

TRA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Site	Lat	Long
XKA861	933.38750		Toronto, ON	433833	0792315	16k0F3EJN	20.0	Toronto, ON Downsview, ON Bramalea, ON Hamilton, ON Oakville, ON Edgar, ON Toronto, ON Weston, ON Toronto, ON Waterdown, ON Woodstock, ON London, ON St Thomas, ON Dawson, ON West Hill, ON Toronto, ON Mississauga, ON North York, ON North York, ON Toronto, ON Hamilton, ON Ottawa, ON Stittsville, ON Ottawa, ON Ottawa, ON West Hill, ON Orangeville, ON Brampton, ON Oshawa, ON Toronto, ON New Market, ON Gormley, ON North York, ON Toronto, ON Brampton, ON Hamilton, ON Hamilton, ON Bramford, ON St Catharines, ON Oakville, ON Welland, ON Ancaster, ON Toronto, ON Oshawa, ON	434225 434505 434305 431431 432635 443208 434226 434505 433959 431951 430612 425906 424741 483027 434703 434006 433500 434608 434500 433903 431513 452512 451825 452239 452403 434703 435400 433941 435400 434006 440225 435657 434500 433903 434208 431144 431513 431010 431010 432959 425445 431153 433856 435418	
VOF989	933.38750		London, ON	425906	0811440	16k0F3EJN	30.9			
VBT686	933.40000	942.40000	Thunder Bay, ON	482512	0891422	200kF9WXX	251.2			
XKE233	933.41250		North York, ON	434500	0793237	16k0F3EJN	28.8			
VAN510	933.41250		Ottawa, ON	452512	0754207	16k0F3EJN	13.5			
XKE233	933.43750		North York, ON	434500	0793237	16k0F3EJN	100			
XKC478	933.48750		Willowdale, ON	434714	0792506	16k0F3EJN	33.1			

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Stn	Lat	Long
								Ajax, ON	435055	07901010
								Richmond Hill, ON	435238	0792622
								Willowdale, ON	434714	0792500
								Ballantrae, ON	440130	0792101
								Mississauga, ON	433717	0793611
								Agincourt, ON	434831	0791622
								Bramalea, ON	434312	0794322
								Meadowdale, ON	433506	079445
								Toronto, ON	433923	0792322
								Georgetown, ON	433858	0795255
								Omamee, ON	441752	0783011
								Peterborough, ON	441851	0782133
								Harwood, ON	440226	078155
								Thorold, ON	430521	079104
								Hamilton, ON	431415	0795233
								Woodstock, ON	430618	0804555
								London, ON	425904	0811422
								Windsor, ON	421856	0830222
								St Catharines, ON	079141	079141
								Omamee, ON	441752	0783011
								Bruce Peak, BC	484603	1233022
								Bald Mtn, BC	485024	1240955
								Hamilton, ON	431414	0795455
								Hamilton, ON	431424	0795044
								Toronto, ON	433915	0792244
								King City, ON	435758	0793344
								Brampton, ON	434305	0794311
								Edgar, ON	443208	0793933
								Mitchell's Cor, ON	435702	0784822
								Mississauga, ON	433612	0794444
								Markham, ON	434903	0792055
								Bolton, ON	435230	0794411
								Whitby, ON	435231	0785733
								Toronto, ON	434243	0792355
								Stouffville, ON	440130	0792100
								Oshawa, ON	435405	0785133
								Scarborough, ON	434429	0791222
								Rexdale, ON	434107	0793544
								Toronto, ON	433913	0792422
								Markham, ON	435156	0791733
								Toronto, ON	434226	0792022
								Mississauga, ON	433525	0793811
								Newmarket, ON	440300	0792744
								Richmond Hill, ON	435240	0792622
VAZ508	933.48750		Woodstock, ON	430618	0804550	16K0F3EJN	24.5			
VAN214	933.48750	942.71250	Omamee, ON	441752	0783010	16K0F3EJN	24.0			
VBW321	933.50625	942.50625	Big Sicker Mtn BC	485142	1234522	16K0F3EJN	7.90			
VBW324	933.50625	942.50625	Honeymoon Bay	484901	1241030	16K0F3EJN	20.0			
XKC467	933.51250		Hamilton, ON	431538	0795514	16K0F3EJN	8.10			
XKA867	933.56250		Toronto, ON	433833	0792315	16K0F3EJN	20.0			

932 to 935 MHz and 941 to 944 MHz

TRA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Stn	Lat	Long
								Toronto, ON	433928	079275
								Weston, ON	434505	079305
								Toronto, ON	433959	079232
								Hamilton, ON	431417	079502
								Oakville, ON	432635	079415
								St Catharines, ON	430711	079150
								Stoney Creek, ON	431345	079452
								Welland, ON	430105	079145
								St Catharines, ON	430945	079143
								Niagara Falls, ON	430445	079045
								St Thomas, ON	424721	081095
								Orangeville, ON	435524	080055
								London, ON	425906	081144
								Guelph, ON	433324	080161
								Niagara Falls, ON	430506	079044
								Ben Lomond, ON	431422	079502
								Grimsby, ON	431013	079320
								Speyside, ON	433408	080001
								Kitchener, ON	432647	080291
								Mississauga, ON	433710	079371
								Toronto, ON	433856	079225
								Toronto, ON	434226	079202
								Scarborough, ON	434441	079115
								Oshawa, ON	435714	078482
								Niagara Falls, ON	430506	079044
								Fonthill, ON	430253	079180
								Kitchener, ON	432714	080290
								Mississauga, ON	433650	079355
								Mississauga, ON	433603	079443
								King City, ON	435925	079330
								Toronto, ON	434231	079244
								Toronto, ON	434742	079254
								Toronto, ON	433833	079231
								Scarborough, ON	434441	079115
								Ajax, ON	435052	079011
								Oshawa, ON	435715	078482
								Cobourg, ON	435807	078121
								Ben Lomond, ON	431422	079502
								Brampton, ON	433944	079450
								Etobicoke, ON	433728	079334
								Toronto, ON	434154	079233
								Toronto, ON	434006	079232
								Richmond Hill, ON	435238	079262
								Markham, ON	435155	079173
VOF989	933.56250		London, ON	425906	0811440	16k0F3EJN	30.9			
XKA932	933.61250		Toronto, ON	433856	0792257	16k0F3EJN	251.2			
VXC301	933.63750		Toronto, ON	434856	0792257	16k0F3EJN	125.9			
CHF662	933.66250		Toronto, ON	433925	0792756	16k0F3EJN	251.2			

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Sin	Lat	Long
VEU947	933.68750		Toronto, ON	434423	0792522	16K0F3EJN	85.1	Ballantrae, ON Mitchell, ON Richmond Hill, ON Brampton, ON King City, ON Toronto, ON Scarborough, ON Hamilton, ON Meadowdale, ON Mississauga, ON Brampton, ON Weston, ON Toronto, ON Toronto, ON King City, ON Edgar, ON Ajax, ON Oshawa, ON Niagara Falls, ON Ben Lomond, ON Mississauga, ON Bramalea, ON Etobicoke, ON Toronto, ON North York, ON Toronto, ON King City, ON Scarborough, ON Ajax, ON Claremont, ON Raglan, ON Oshawa, ON Des Cantons, PQ Huntingdon, PQ Chenier, PQ Des Cantons, PQ Pontbriand, PQ MT Gros Pelerin Lacolle, PQ Mt duDonnaime PQ Jacques-Cartier St. Narcisse, PQ Blue Grouse, BC Okeechobee, ON	440130 435703 435238 443944 435757 433833 434841 431415 433506 433717 433946 434108 433856 433910 435923 443209 435055 435418 430507 431422 433445 434244 433905 433930 434545 433904 435925 434724 435052 435919 440212 435715 453352 450514 453507 453352 460955 470712 450702 465515 464729 463330 495800 460033	0792102 0784744 0792622 0794411 0793322 0792311 0791333 0795233 0794455 0793611 0794411 079310 0792255 0792311 0793255 0793733 0790100 0785151 0790500 0795022 0793733 0794333 0793355 0792322 0791511 0790110 0785233 0784822 0715705 0741545 0740322 0715705 0711422 0700917 0732643 0712005 0714322 0722500 1193140 0814017
XKC478	933.71250		Toronto, ON	434714	0792506	16K0F3EJN	251.2			
XKU513	933.73750		Toronto, ON	434238	0792335	16K0F3EJN	251.2			
VBN933	934.00000	943.00000	Gallup Hill, PQ	453810	0721154	200K9WXXF	1000			
VBN698	934.20000	943.20000	Chateaugay, PQ	451508	0735219	200K9WXXF	1000			
VBN925	934.40000	943.40000	St Sauveur, PQ	455302	0741303	200K9WXXF	1000			
VBN932	934.40000	943.40000	St Georges, PQ	454047	0715145	200K9WXXF	1000			
VBN937	934.40000	943.40000	Theilford, PQ	460402	0711622	200K9WXXF	1000			
VBN938	934.40000	943.40000	Montmagny, PQ	465813	0703411	200K9WXXF	1000			
VBN700	934.60000	943.60000	Hertel, PQ	452426	0732546	200K9WXXF	1000			
VBN945	934.60000	943.60000	Charlesbourg, PQ	465116	0711843	200K9WXXF	1000			
VBN941	934.60000	943.60000	Riviere-a-Pierre	465835	0720845	200K9WXXF	1000			
VBL516	934.60000	943.60000	Mont-Carmel, PQ	462949	0723836	200K9WXXF	138.0			
XOD77	934.80000	943.80000	Kelowna, BC	495150	1192715	200K9WXXF	22.3			
VX9SWS	934.80000	943.80000	Little Current, ON	455716	0815645	200K9WXXF	21.4			

932 to 935 MHz and 941 to 944 MHz

TRA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Sin	Lat	Long
VBN928	934 80000	943 80000	Vignan, PQ	452945	0754226	200KF8WXF	1000	Mt Cascades, PQ	453510	075504
VBN927	934 80000	943 80000	Mont Ripon, PQ	454759	0750845	200KF8WXF	1000	Calumet, PQ	454441	074380
VBN934	934 80000	943 80000	Mt Bellevue, PQ	452248	0715452	200KF9WXF	1000	Des Cantons, PQ	453352	071570
VBN936	934 80000	943 80000	Mt St Marguerite	462007	0710835	200KF9WXF	1000	Ponbriand, PQ	460955	071142
VBL516	934 80000	943 80000	Mt Carmel, PQ	462949	0723836	200KF9WXF	1000	St Narcisse, PQ	463330	072250
CGE043	934 80000	943 80000	Nipigon, ON	490125	0882624	200KF1DJN	37.0	Cameron Falls ON	488220	088182
CGD298	934 80000	943 80000	Ignace, ON	493155	0920932	200KF1DJN	37.0	Hodgson, ON	492405	091373
XJL446	934 81250	943 80000	Toronto, ON	433833	0792315	16K0F3EJN	7.94	Churchill, ON	441515	079361
VBN930	934 95000	943 95000	Joliette, PQ	460125	0732524	200KF9WXF	1000	Carignan, PQ	455822	073093
VBI613	941 00625	932 00625	Mt Seymour, BC	492112	1225718	12K50F1DXN	67.6			
XOH203	941 50625	932 50625	Fi Macleod, AB	494350	1132300	12K5F9WJN	97.7	Peigan, AB	493830	113351
XOH274	941 50625	932 50625	Pincher Creek, AB	493040	1135535	12K5F9WJN	81.3	Peigan, AB	493830	113351
VBA401	941 50625	932 50625	Leithbridge, AB	494340	1125005	12K2F9WJN	39.8	Riverbend, AB	493630	112520
VBA455	941 50625	932 50625	Burdette, AB	494901	1113311	12K5F9WJN	64.6	Winnifred, ON	495130	111133
VAZ458	941 50625	932 50625	Woodstock, ON	430352	0804421	16K0F3EJN	5.00	Woodstock, ON	430504	080445
VAZ893	941 51250	932 51250	Windsor, ON	421857	0830225	16K0F3EJN	112.0	Essex, ON	421031	082492
VAQ733	941 51250	932 51250	Burnaby, BC	491357	1230030	16K0F1DCN	97.7	Burnaby, BC	491357	123003
VBO900	941 51250	932 51250	Etobicoke, ON	434147	0793305	16K0F2DCN	8.32	Mount Tuam, BC	491310	122362
VAZ893	941 51250	932 51250	Windsor, ON	421857	0830225	16K0F3EJN	112.2	Etobicoke, ON	434212	079334
XMK814	941 53750	932 51750	St Mary's, ON	431510	0810815	16K0F3EJN	44.7	Essex, ON	421031	082492
XMK812	941 53750	932 53750	Craigleith, ON	443133	0801758	16K0F3EJN	10.0	Milvrin, ON	492922	080582
XJP232	941 53750	932 53750	Buckhorn, ON	443459	0781712	16K0F3EJN	5.60	Singhampton, ON	442408	080154
VBL950	941 55000	932 55000	Pincher Creek, AB	493040	1135535	100KF9WJF	117.5	Apsley, ON	445522	078032
VBL949	941 55000	932 55000	Tempest, AB	494005	1122930	100KF9WJN	169.8	Cowley Ridge, AB	493310	114060
VBM844	941 55000	932 55000	Chin Coulee, AB	493837	1122750	100KF9WJN	125.9	Leithbridge, AB	494340	112500
XKP631	941 55000	932 55000	Bow Island, AB	495545	1112027	100KF7WEC	457.1	Stirling, AB	493015	112293
VBW344	941 56250	932 56250	Theis Island, BC	485918	1234036	16K0F3EJN	28.2	Leithbridge, AB	494215	112500
VBW342	941 56250	932 56250	Maple Mtn, BC	484655	1234744	16K0F3EJN	28.2	Maple Mtn, BC	485000	123361
VBW341	941 56250	932 56250	North Oyster, BC	490303	1234928	16K0F3EJN	28.2	Maple Mtn, BC	485000	123361
VBW333	941 56250	932 56250	Ladysmith, BC	485919	1234919	16K0F3EJN	28.2	Maple Mtn, BC	485000	123361
VBW330	941 56250	932 46250	Crofton, BC	485151	1233852	16K0F3EJN	44.7	Maple Mtn, BC	485000	123361
VBW329	941 56250	932 56250	Chermainus, BC	485524	1234302	16K0F3EJN	28.2	Maple Mtn, BC	485000	123361

2 to 935 MHz and 941 to 944 MHz

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Sin	Lat	Long
VBW323	941 56250	932 56250	Duncan, BC	484726	1234241	16K0F3EJN	20.0	Maple Mtn, BC	485000	12336
VBW320	941 56250	932 56250	Bald, Mtn, BC	485024	1240950	16K0F3EJN	12.3	Youbou, BC	485233	1241302
VBT685	941 60000	932 60000	Dawson, ON	483027	0892725	200KF9WXX	251.2	Mesachie Lk., BC	484847	12407
XOB95	941 60625	932 60625	Bruce Peak, BC	484600	1233031	11K0F2DFN	47.9	Lk. Cowichan, BC	484935	12404
XOK933	941 60625	932 60625	Mayne Island, BC	484910	1231357	11K0F2DFN	7.90	Honeymoon Bay	484901	12410
XOK784	941 60625	932 60625	N Pender Is., BC	484718	1231846	11K0F2DFN	10.2	Caycuse, BC	485320	12421
XOK931	941 60625	932 60625	Saturna Island, BC	484710	1231153	11K0F2DFN	10.2	Raih, ON	484737	08953
XOK220	941 60625	932 60625	Parker Island, BC	485335	1232531	11K0F2DFN	9.50	Mayne Island, BC	484910	12313
XOK785	941 60625	932 60625	Mayne Island, BC	485052	1231833	11K0F2DFN	10.0	N. Pender Is., BC	484718	12311
XOK221	941 60625	932 60625	Maracaibo, BC	485147	1232705	11K0F2DFN	8.30	Saturna Island, BC	484710	12311
XOK219	941 60625	932 60625	Galiano Island, BC	485421	1232137	11K0F2DFN	10.0	Parker Island, BC	485335	12325
VBW316	941 60625	932 60625	Galiano Island, BC	485418	1232132	11K0F2DFN	8.70	Mayne Island, BC	485052	12318
XOK218	941 60625	932 60625	English Bluff, BC	490028	1230516	11K0F2DFN	8.70	Maracaibo, BC	485147	12327
VB1376	941 60625	932 60625	Jones Lake, BC	491355	1213711	16K0F3EJN	4.70	English Bluff, BC	490028	12305
XOK438	941 63750	932 63750	Sardis, BC	490652	1220028	16K0F3EJN	4.10	English Bluff, BC	490028	12305
XJP232	941 63750	932 63750	Buckhorn, ON	443459	0781712	16K0F3EJN	5.60	Bruce Peak, BC	484600	12303
XMK812	941 66250	932 66250	Craigleith, ON	443133	0801758	16K0 F3EJN	10.0	Bruce Peak, BC	484600	12303
VBW323	941 70625	932 70625	Duncan, BC	484726	1234241	16K0 F3EJN	31.6	Bruce Peak, BC	485335	12325
VBNT01	941 80000	932 80000	Lacolle, PQ	450702	0732643	200KF8WXX	446.7	Bruce Peak, BC	484600	12303
XMK812	941 83750	932 83750	Graigleith, ON	443133	0801758	16K0F3EJN	21.9	English Bluff, BC	490028	12305
VBW322	941 90625	932 90625	Bruce Peak, BC	484603	1233022	16K0F3EJN	4.00	English Bluff, BC	490028	12305
VBW844	941 95000	932 95000	Chin Coulee, AB	493837	1122750	100KF9WJN	125.9	English Bluff, BC	490028	12305
VBW699	942 00000	933 00000	Huntington, PQ	450514	0741548	200KF8WXX	38.0	English Bluff, BC	490028	12305
VBG604	942 06250	933 06250	Grouse Mtn., BC	492250	1230442	16K0F2DXN	25.1	Bruce Peak, BC	484600	12303
VBW343	942 10625	933 10625	Shawnigan Lk, BC	483918	1233652	16K0F3EJN	28.2	Galiano Island, BC	485421	12313
VBW338	942 10625	933 10625	Mill Bay, BC	484115	1233458	16K0F3EJN	28.2	Galiano Island, BC	485421	12313
VBW337	942 10625	933 10625	Mill Bay, BC	483914	1233320	16K0F3EJN	28.2	Wahleach Lk., BC	485418	12313
VBW336	942 10625	933 10625	Malahat, BC	483428	1233359	16K0F3EJN	28.2	Wahleach Lk., BC	485418	12313
VBW323	942 10625	933 10625	Duncan, BC	484726	1234241	16K0F3EJN	31.6	Wahleach Lk., BC	485418	12313
VBW323	942 30625	933 30625	Duncan, BC	484726	1234241	16K0F3EJN	12.6	Apsley, ON	445522	07803
								Singhampton, ON	443133	08017
								Big Sicker Mtn BC	485142	12345
								Hertel, PQ	452426	07325
								Singhampton, ON	442408	08015
								Honeymoon Bay	484901	12410
								Magrath, AB	492527	11254
								Chateauguay, PQ	451508	07352
								Mt Wood, BC	483615	12335
								Mt Wood, BC	483615	12335
								Mt Wood, BC	483615	12335
								Mt Wood, BC	483615	12335
								Duncan, BC	484651	12342
								Cowichan Bay BC	484347	12338
								Mt Wood, BC	483515	12335
								Maple Bay, BC	484902	12333

932 to 935 MHz and 941 to 944 MHz

TRA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Sin	Lat	Long
VAJ812	942 31250		Hamilton, ON	431421	0795024	16k0F3EJN	114.8	Ancaster, ON	431410	0795555
VAJ439	942 33750		Oshawa, ON	435405	0785135	16k0F1DCN	46.8	St Catharines, ON	430711	0791515
VBT685	942 40000	933.400000	Dawson, ON	483027	0892725	200kF9WXX	251.2	Thunder Bay, ON	482512	0891200
XKA738	942 41250		Orillia, ON	443621	0792750	16k0FXDCN	100.0	Kincardine, ON	441525	0813421
XKE233	942 41250		North York, ON	434500	0793237	16k0F2DXN	100.0	St Catharines, ON	431010	0791717
VAG226	942 41250		St. Joachim, ON	421620	0824049	16k0F3EJN	109.6			
VAG226	942 41250		Chatham, ON	422554	0821330	16k0F2DXN	100.0	Corunna, ON	425332	082226
								Leamington, ON	420216	082366
								St Joachim, ON	421620	082404
								Rodney, ON	423340	08140
								St Thomas, ON	424726	081164
								Chatham, ON	422554	082133
								Windsor, ON	421858	083022
XKA706	942 41250		Stratford, ON	432203	0805401	16k0F3EJN	125.9	Woodstock, ON	430618	080455
VOZ608	942 41250		Mt. Forest, ON	435753	0804307	16k0F3EJN	69.2	Formosa, ON	440526	081122
								Black Bank, ON	441453	080100
XKB704	942 41250		Cambridge, ON	432150	0801715	16k0F3EJN	102.3	Port Hope, ON	435802	078171
	942 41250		Peterborough, ON	442039	0782106	16k0F3EJN	60.3	Peterborough, ON	442039	078210
XJV461	942 41250	942 41250	St. Mary's, ON	431529	0811724	16k0F3EJN	83.2	Trenton, ON	440727	077395
XKA738	942 43750		Orillia, ON	443621	0792750	16k0FXDCN	100.0	Hamilton, ON	425410	079563
XKE233	942 43750		North York, ON	434500	0793237	16k0F2DXN	100.0	Delhi, ON	424947	080285
								Niagara Falls, ON	430437	079045
								Oakville, ON	432959	079451
								Dunville, ON	425640	079355
								Welland, ON	425445	079092
VAG226	942 43750		St. Joachim, ON	421620	0824049	16k0F3EJN	109.6	Corunna, ON	425332	082261
VAG226	942 43750		Chatham, ON	422554	0821330	16k0F2DXN	100.0	Leamington, ON	420216	082360
								St Joachim, ON	421620	082404
								Rodney, ON	423340	081401
								St Thomas, ON	424726	081164
								Chatham, ON	422554	082133
								Windsor, ON	421858	083022
								Woodstock, ON	430618	080455
XKA706	942 43750		Stratford, ON	432203	0805401	16k0F3EJN	125.9	Port Hope, ON	435802	078171
XKB704	942 43750		Cambridge, ON	432150	0801715	16k0F3EJN	102.3	Peterborough, ON	442039	078210
	942 43750		Peterborough, ON	442039	0782106	16k0F3EJN	60.3	Lindsay, ON	441919	078444
XJV461	942 43750	942 43750	St Mary's, ON	431529	0811724	16k0F3EJN	83.2	Trenton, ON	440727	077395

2 to 935 MHz and 941 to 944 MHz

RA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Stn	Lat	Long
XOA35	942 46000		Victoria, PQ	460453	0715714	3M55F8WXF	138.0	Nicolette, PQ	460455	07215
CFZ51	942 46000	903 66000	Riondel, BC	494452	1165103	2M97F8EJF	4.00	Duncan Lake, BC	501118	116560
VBO636	942 46250		Bracebridge, ON	450452	0791800	16k0F3EJN	77.6	Edgar, ON	443156	079393
XKC478	942 48750		Willowdale, ON	434714	0792506	16k0F3EJN	4.80	Orillia, ON	443942	079245
								Huntsville, ON	451918	07913
								Willowdale, ON	434714	079250
								Toronto, ON	433856	079222
								Oshawa, ON	435418	078515
								Ballantrae, ON	440130	079210
								Mississauga, ON	433717	07936
								Agincourt, ON	434831	079162
								Hamilton, ON	431415	079523
								Georgetown, ON	433858	079525
VBW320	942 50625	933 50625	Bald Min., BC	485024	1240950	16k0F3EJN	21.9	Honeymoon Bay	484901	124103
VBW322	942 50625	933 50625	Bruce Peak, BC	484603	1233022	16k0F3EJN	4.00	Big Sicker Mtn BC	485142	123452
XJV662	942 56250		Edgar, ON	443208	0793933	16k0F3EJN	10.0	Barrie, ON	442410	079423
VAJ883	942 56250		Bramford, ON	431018	0801536	16k0F2DXN	125.9	Bramford, ON	431018	080153
								Kitchener, ON	432714	080290
XKA932	942 61250		Toronto, ON	433856	0792257	16k0F2DXN	251.2	Cambridge, ON	432259	080192
								Niagara Falls, ON	430506	079044
								Ben Lamond, ON	431422	079502
								Grimsby, ON	431013	079320
								Speyside, ON	433408	080001
								Kitchener, ON	432647	080291
								Mississauga, ON	433710	079371
								Toronto, ON	433856	079225
								Toronto, ON	434226	079202
								Scarborough, ON	434441	079115
								Oshawa, ON	435714	078482
VCX301	942 63750		Toronto, ON	434856	0792257	16k0F3EJN	125.9	Niagara Falls, ON	430506	079044
								Fonthill, ON	430253	079180
								Kitchener, ON	432714	080290
								Mississauga, ON	433650	079355
								Mississauga, ON	433603	079443
								King City, ON	435925	079330
								Toronto, ON	434231	079244
								Toronto, ON	434742	079254
								Toronto, ON	433833	079231
								Scarborough, ON	434441	079115
								Ajax, ON	435052	079011
								Oshawa, ON	435715	078482
								Cobourg, ON	435807	078121
CHF662	942 66250		Toronto, ON	433925	0792756	16k0F2DXN	251.2	Ben Lamond, ON	431422	079502
								Brampton, ON	433944	079450

932 to 935 MHz and 941 to 944 MHz

TRA

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Stn	Lat	Long
XKC478	942.71250		Toronto, ON	434714	0792506	16k0F2DXN	251.2	Etobicoke, ON Toronto, ON Toronto, ON Richmond Hill, ON Markham, ON Ballantrae, ON Mitchell, ON Meadowdale, ON Mississauga, ON Brampton, ON Weston, ON Toronto, ON Toronto, ON King City, ON Edgar, ON Ajax, ON Oshawa, ON Newmarket, ON Edgar, ON Bramford, ON Woodstock, ON Glen Christie, ON Orangeville, ON Kitchener, ON North York, ON Winnipeg, MB Niagara Falls, ON Ben Lomond, ON Mississauga, ON Bramalea, ON Etobicoke, ON Toronto, ON North York, ON Toronto, ON King City, ON Scarborough, ON Ajax, ON Claremont, ON Flaglan, ON Oshawa, ON Gallup Hill, PQ Chateauguay, PQ Hertel, PQ Charlesbourg, PQ	433728 434154 434006 435238 435155 440130 435703 433506 433717 433946 434108 433856 433910 435923 443209 435055 435418 440456 443209 431010 430618 432816 435408 432723 434500 495325 430507 431422 433445 434244 433905 433930 434545 433904 435925 434724 435052 435919 440212 435715 453810 451508 452426 465116	079334 079233 079232 079262 079173 079210 078474 079445 079361 079441 079310 079225 079231 079325 079373 079010 078515 079291 079373 080145 080455 080182 080091 080285 079323 097092 079050 079502 079373 079433 079335 079232 079243 079250 079330 079151 079011 079085 078523 078482 072115 073521 073254 071184
XKB735	942.71250		Ballantrae, ON	440130	0792102	16k0F3EJN	17.4			
VOZ749	942.71250	933.48750	Arkel, ON	433021	0800726	16k0F3EJN	97.7			
CJX661	942.72500		Starbuck, MB	494615	0973035	50k0F9WWF	169.8			
XKU531	942.73750		Toronto, ON	434238	0792335	16k0F2DFN	251.2			
VBN846	943.00000	934.00000	Des Cantons, PQ	453352	0715705	200kF9WXX	1000			
VBN699	943.20000	934.20000	Huntingdon, PQ	450514	0741548	200kF9WXX	1000			
VBN701	943.60000	934.60000	Lacolle, PQ	450702	0732643	200kF9WXX	1000			
VBN840	943.60000	934.60000	Mt duDomaine	465515	0712009	200kF9WXX	1000			

2 to 935 MHz and 941 to 944 MHz

Call Sign	Tx Freq	Rx Freq	Location	Lat	Long	Emission	ERP(W)	Link Stn	Lat	Long
VBN942	943 60000	934 60000	Jacque Cartier	464729	0714325	200KF9WXXF	1000	Riviere-a-Pierre	465835	07208
VBN924	943 40000	934 40000	Chenier, PQ	453507	0740323	200KF9WXXF	1000	St Sauveur, PQ	455302	07413
VBN946	943 40000	934 40000	Des Cantons, PQ	453352	0715705	200KF9WXXF	1000	St Georges, PQ	454047	07151
VBN935	943 40000	934 40000	Pontbriand, PQ	460955	0711424	200KF9WXXF	1000	Theford, PQ	460402	07116
VBN939	943 40000	934 40000	Mt Gros Pelerin	470712	0700917	200KF9WXXF	1000	Montmagny, PQ	465813	07034
VBL517	943 60000	934 60000	St Narcisse, PQ	463330	0722500	200KF8WXXF	158.5	Mont Carmel, PQ	462949	07238
VBN929	943 80000	934 80000	Mt Cascades, PQ	453510	0755045	200KF9WXXF	1000	Vignau, PQ	452945	07542
VBN926	943 80000	934 80000	Calumet, PQ	454441	0743807	200KF9WXXF	1000	Mont-Ripon, PQ	454759	07508
VBN946	943 80000	934 80000	Des Cantons, PQ	453352	0715705	200KF9WXXF	1000	Mt Bellevue, PQ	452248	07154
VBN935	943 80000	934 80000	Pontbriand, PQ	460955	0711424	200KF9WXXF	1000	Mt ST Marguerite	462007	07108
VBL517	943 80000	934 80000	St Narcisse, PQ	463330	0722500	200KF9WXXF	1000	Mt Carmel, PQ	462949	07238
VBN984	943 80000	934 80000	Blue Grouse, BC	495800	1193140	200KF7DET	22.4	Kelowna, BC	495150	11927
VX9SWT	943 80000	934 80000	Okeechobee, ON	460033	0814017	200KF1DJN	25.1	Little Current, ON	455716	08156
CGD487	943 80000	934 80000	Cameron Falls ON	485820	0881824	200KF1DFN	37.0	Nipigon, ON	490125	08826
CGD299	943 80000	934 80000	Hodgson, ON	482405	0913739	200KF1DJN	37.0	Ignace, ON	493155	09209
XMK810	943 81250	934 81250	Cambridge, ON	432455	0801825	16k0F3EJN	10.0	Toronto, ON	433833	07923
VBN931	943 95000	934 95000	Carignan, PQ	455822	0730934	200KF9WXXF	1000	Joliette, PQ	460125	07925