

June 12, 2018

Hearing Services
Alberta Energy Regulator
Suite 1000, 250 – 5th Street S.W.
Calgary, Alberta T2P 0R4

Ms. Shukalkina

RE: Grand Rapids Pipeline GP Ltd. Grand Rapids Pipeline Project
Decision 2014 ABAER 012
Condition Compliance Update - Condition No. 16

Grand Rapids Pipeline GP Ltd. (Grand Rapids) requests that the Alberta Energy Regulator (AER) accept the following information as acknowledgement of compliance with Condition 16 of Decision 2014 ABAER 012 (Decision) for the Grand Rapids Pipeline Project (Project). Condition 16 states that:

Grand Rapids through the use of a qualified aquatic environment specialist must assess the status of all fish-bearing watercourse crossings at the time of construction to verify that the proposed crossing method remains valid.

The AER has requested the following, to ensure this condition is met:

Grand Rapids will submit to the AER a letter signed by a qualified aquatic environmental specialist outlining results of the assessment.

On behalf of Grand Rapids, CH2M HILL Energy Canada, Ltd. (CH2M) conducted assessments of all fish-bearing watercourse crossings during the 2015 and 2016 construction seasons. As per the attached letter, from CH2M's qualified aquatic environmental specialist, the results confirmed that the crossing methods proposed by Grand Rapids remained valid.

Based on the above, Grand Rapids submits that the intent and requirements of Condition 16 have been met and the Condition has been completed. If you have any questions or require any further information, do not hesitate to contact me.

Sincerely,



Paige Dodd
Regulatory Project Manager
CA Regulatory Law & Services
450 – 1st Street S.W.
Calgary, Alberta T2P 5H1
(587) 933-3573 Paige_Dodd@TransCanada.com

Don McCabe
Alberta Energy Regulator
Suite 1000, 250 – 5th Street SW
Calgary, Alberta T2P 0R4

June 11, 2018

Subject: Grand Rapids Pipeline GP Ltd. Grand Rapids Pipeline
Project Decision 2014 ABAER 012, Condition Compliance Update – Condition 16

Dear Mr. McCabe,

Grand Rapids Pipeline GP Ltd. (Grand Rapids) provides the following update to the Alberta Energy Regulator (AER) on compliance with Condition 16 of Decision 2014 ABAER 012 (Decision) for the Grand Rapids Pipeline Project (Project). Condition 16 states:

Grand Rapids through the use of a qualified aquatic environment specialist must assess the status of all fish-bearing watercourse crossings at the time of construction to verify that the proposed crossing method remains valid.

The AER has requested the following, to ensure condition 16 was met:

Grand Rapids will submit to the AER a letter signed by a qualified aquatic environmental specialist outlining the results of the assessment.

Grand Rapids commissioned CH2M HILL Energy Canada, Ltd. (CH2M), to assess each of the fish-bearing watercourse and drainage crossings at the time of construction to verify that the proposed crossing method remained valid. Construction of the watercourse and drainage crossings along the Project route occurred throughout 2015 and 2016. A summary table of all watercourse and fish-bearing drainage crossings is provided in Attachment 1. In most cases, a qualified aquatic environment specialist (QAES) conducted ground investigation prior to construction, although where watercourse or fish-bearing drainage crossings were found to be dry or frozen to bottom, some investigations were conducted by an Environmental Inspector who relayed information to the QAES. Note that Condition 16 does not apply to watercourses and fish-bearing drainages constructed as part of the Stony Mountain Project (Green Area of Alberta), since these were constructed in winter 2013/2014 under a separate approval and prior to the issuance of Condition 16. Crossings constructed under the Stony Mountain Project include WC5 of Spread 1 and all of Spread 2.

If you have any questions regarding the closing Condition 16, please do not hesitate to contact me at 403.640.8204 or Brianne.Lunn@CH2M.com.

Regards,
CH2M HILL Energy Canada, Ltd.



Brianne Lunn, P.Biol., R.P.Bio., QAES
Aquatic Biologist

Attachment 1
Watercourse and Fish-Bearing
Drainage Crossings Summary Table

Table A1-1. Watercourse and Fish-Bearing Drainage Crossings on the Grand Rapids Pipeline Project

Site No.	Name	Legal Location (W4M), UTM Coordinates (NAD 83, Zone 12) Latitude/Longitude (DD-MM-SS)	Date Assessed	Watercourse Crossing Method Valid	Actual Crossing Method
CONSTRUCTION SPREAD 1					
FD1	Fish-bearing drainage	SE 28-89-14 428722E, 6289943N 56° 44' 52.8" N/ 112° 9' 55.8" W	February 22, 2016	Yes – fish salvage required (conducted on February 23, 2016)	Isolated trenched
WC1	Buffalo Creek	NE 18-87-17 395673E, 6268713N 56° 33' 4.1" N/ 112° 41' 49.5" W	February 16, 2016	Yes – fish salvage required (conducted on March 1, 2016)	Isolated trenched
WC2	Unnamed tributary to the Athabasca River	SW 2-87-18 391554E, 6264516N 56° 30' 45.1" N/ 112° 45' 44.3" W	March 5, 2016	Yes – fish salvage required (conducted on March 8, 2016)	Isolated trenched
WC3	Livock River	SW 18-86-18 386467E, 6257779N 56° 27' 2.9" N/ 112° 50' 31.2" W	February 8, 2016	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
WC4	Unnamed tributary to the Livock River	NE 6-86-18 386916E, 6255355N 56° 25' 45.0" N/ 112° 50' 1.2" W	March 7, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC5	Unnamed tributary to the Athabasca River	NW 19-85-18 386188E, 6250962N 56° 23' 22.4" N/ 112° 50' 36.8" W	(Stony Mountain Pipeline) – Constructed prior to Condition 16 (winter 2013/2014))	N/A	N/A
CONSTRUCTION SPREAD 2 (Stony Mountain Pipeline) – Constructed Winter 2013/2014 Prior to Condition 16					
WC6	Unnamed tributary to Loon Creek	NE 3-84-18 391816E, 6236325N 56° 15' 33.9" N/ 112° 44' 47.2" W	N/A	N/A	N/A
WC7	Loon Creek	NW 25-83-28 394282E, 6232595N 56° 13' 35.4" N/ 112° 42' 18.6" W	N/A	N/A	N/A
FD2	Fish-bearing drainage	SE 18-83-17 395342E 6229097N 56° 11' 43.1" N/ 112° 41' 12.1" W	N/A	N/A	N/A
WC8	Athabasca River	SW 27-82-17 401992E, 6222003N 56° 7' 58.9" N/ 112° 34' 37.0" W	N/A	N/A	N/A
WC9	Boivin Creek	SW 11-82-17 403359E, 6216983N 56° 5' 17.5" N/ 112° 33' 11.3" W	N/A	N/A	N/A
WC10	House River	SW 29-81-16 408268E, 6211945N 56° 2' 38.1" N/ 112° 28' 21.2" W	N/A	N/A	N/A
FD3	Fish-bearing drainage	SW 23-81-16 412934E, 6210722N 56° 2' 1.7" N/ 112° 23' 50.2" W	N/A	N/A	N/A

Table A1-1. Watercourse and Fish-Bearing Drainage Crossings on the Grand Rapids Pipeline Project

Site No.	Name	Legal Location (W4M), UTM Coordinates (NAD 83, Zone 12) Latitude/Longitude (DD-MM-SS)	Date Assessed	Watercourse Crossing Method Valid	Actual Crossing Method
FD4	Fish-bearing drainage	SE 23-81-16 413374E, 6210322N 56° 1' 49.0" N/ 112° 23' 24.3" W	N/A	N/A	N/A
WC11	Dropoff Creek	SW 4-81-15 W4M 419120E, 6205175N 55° 59' 6.2" N/ 112° 17' 46.9" W	N/A	N/A	N/A
CONSTRUCTION SPREAD 3a					
WC12	Unnamed tributary to Dropoff Creek	SNE 13-80-15 425104E, 6199304N 55° 55' 59.8" N/ 112° 11' 55.8" W	January 31, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC13	Unnamed tributary to Dropoff Creek	NW 5-80-14 427297E, 6196078N 55° 54' 16.7" N/ 112° 9' 46.3" W	January 31, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC14	Unnamed tributary to Dropoff Creek	SW 29-79-14 427442E, 6192177N 55° 52' 10.6" N/ 112° 9' 34.3" W	January 31, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC15	Unnamed tributary to Dropoff Creek	NE 19-79-14 426574E, 6191211N 55° 51' 39.0" N/ 112° 10' 6.0" W	January 31, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC16	Unnamed tributary to Dropoff Creek	NE 18-79-14 426115E, 6190351N 55° 51' 10.9" N/ 112° 10' 48.8" W	January 31, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
FD5	Fish-bearing drainage	SW 18-79-14 425682E, 6189008N 55° 50' 27.2" N/ 112° 11' 12.4" W	February 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC17	House River	SW 10-78-15 421805E, 6178337N 55° 44' 39.9" N/ 112° 14' 44.2" W	February 15, 2016	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
WC18	Unnamed tributary to the House River	SE 32-77-15 419046E, 6174378N 55° 42' 30.2" N/ 112° 17' 18.1" W	January 28, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC19	Unnamed tributary to the House River	NE 32-76-15 418474E, 6165939N 55° 37' 57.0" N/ 112° 17' 41.9" W	January 25, 2016	Yes – fish salvage required (conducted on January 26, 2016)	Isolated trenched
WC20	Unnamed tributary to the House River	NW 20-76-15 418021E, 6162313N 55° 35' 59.4" N/ 112° 18' 3.9" W	January 18, 2016	Yes – fish salvage required (conducted on January 19, 2016)	Isolated trenched
CONSTRUCTION SPREAD 3b					
WC21	Unnamed tributary to the Wandering River	NW 2-75-16 413109E, 6148078N 55° 28' 16.0" N/ 112° 22' 28.3" W	February 22, 2015	Yes – fish salvage required (conducted on February 28, 2015)	Isolated trenched

Table A1-1. Watercourse and Fish-Bearing Drainage Crossings on the Grand Rapids Pipeline Project

Site No.	Name	Legal Location (W4M), UTM Coordinates (NAD 83, Zone 12) Latitude/Longitude (DD-MM-SS)	Date Assessed	Watercourse Crossing Method Valid	Actual Crossing Method
WC22	Unnamed tributary to the Wandering River	SW 21-74-16 410978E, 6142711N 55° 25' 21.1" N/ 112° 24' 23.5" W	February 19, 2015	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Isolated trenched
CONSTRUCTION SPREAD 4					
WC23	Unnamed tributary to the Wandering River	NW 5-74-16 408895E, 6138312N 55° 22' 57.4" N/ 112° 26' 16.7" W	February 17, 2015	Yes – fish salvage required (conducted on February 18, 2015)	Isolated trenched
FD6	Fish-bearing drainage	NE 31-73-16 407965E, 6137279N 55° 22' 23.4" N/ 112° 27' 8.3" W	February 13, 2015	Yes – fish salvage required (conducted on February 13, 2015)	Isolated trenched
WC24	Unnamed tributary to the Wandering River	NE 31-73-16 407823E, 6137192N 55° 22' 20.5" N/ 112° 27' 16.3" W	February 10, 2015	Yes – fish salvage required (conducted on February 10, 2015)	Isolated trenched
WC25	Wandering River	NW 18-73-16 407244E, 6132030N 55° 19' 33.2" N/ 112° 27' 43.0" W	February 3, 2015	Yes – fish salvage required (conducted on February 5, 2015)	Isolated trenched
WC26	Unnamed tributary to the Wandering River	NE 12-73-17 406185E, 6130347N 55° 18' 38.0" N/ 112° 28' 41.1" W	February 1, 2015	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC27	Unnamed tributary to the Wandering River	SE 30-71-16 408102E, 6115156N 55° 10' 28.1" N/ 112° 26' 34.6" W	March 8, 2015	Yes – fish salvage required (conducted on March 12, 2015)	Isolated trenched
FD7	Fish-bearing drainage	NW 23-70-17 405178E, 6104407N 55° 4' 38.5" N/ 112° 29' 6.9" W	March 8, 2015	Yes – fish salvage required (conducted on March 9 and 10, 2015)	Isolated trenched
WC28	La Biche River	SW 35-68-17 404565E, 6087930N 54° 55' 45.2" N/ 112° 29' 21.6" W	January 26, 2015	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
CONSTRUCTION SPREAD 5					
WC29	Unnamed tributary to Pine Creek	SE 31-66-18 390159E, 6068580N 54° 45' 8.8" N/ 112° 42' 24.1" W	October 18, 2015	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC30	Unnamed tributary to Flat Lake	SW 34-65-19 384330E, 6058936N 54° 39' 52.2" N/ 112° 47' 36.2" W	September 1, 2015	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
WC31	Unnamed tributary to Flat Lake	NE 8-65-19 381738E, 6052952N 56° 36' 36.5" N/ 112° 49' 52.1" W	September 8, 2015	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
WC32	Unnamed tributary to Flat Creek	SW 30-64-19 379202E, 6047757N 54° 33' 46.4" N/ 112° 52' 5.7" W	October 4, 2015	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched

Table A1-1. Watercourse and Fish-Bearing Drainage Crossings on the Grand Rapids Pipeline Project

Site No.	Name	Legal Location (W4M), UTM Coordinates (NAD 83, Zone 12) Latitude/Longitude (DD-MM-SS)	Date Assessed	Watercourse Crossing Method Valid	Actual Crossing Method
WC33	Unnamed tributary to Flat Creek	SW 19-64-19 379149E, 6046184N 54° 32' 55.5" N/ 112° 52' 6.3" W	September 2, 2015	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
WC34	Unnamed tributary to Flat Creek	NW 7-64-19 378517E, 6043658N 54° 31' 33.8" N/ 112° 52' 2.6" W	October 6, 2015	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC35	Flat Creek	NW 25-63-20 376802E, 6038383N 54° 28' 41.2" N/ 112° 54' 5.2" W	November 2015	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
CONSTRUCTION SPREAD 6					
WC36	Namepi Creek	SE 32-58-20 373368E, 5991088N 54° 3' 8.8" N/ 112° 56' 3.8" W	August 17, 2016	Yes – fish salvage required (conducted on August 20, 2016)	Isolated trenched
WC37	Unnamed tributary to the North Saskatchewan River	SW 2-58-20 377427E, 5983162N 53° 58' 56.0" N/ 112° 52' 9.2" W	August 19, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
CONSTRUCTION SPREAD 7					
WC38	North Saskatchewan River	NW 36-57-20 378902E, 5982201N 53° 58' 26.2" N/ 112° 50' 46.9" W	June 19, 2016	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
WC39	Beaverhill Creek	SW 16-56-20 373681E, 5967053N 53° 50' 11.8" N/ 112° 55' 10.8" W	August 14, 2016	Yes – fish salvage required (conducted on August 15, 2016)	Isolated trenched
WC40	Unnamed tributary to Beaverhill Creek	SW 8-56-20 372095E, 5965141N 53° 49' 8.6" N/ 112° 56' 34.7" W	July 25, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
CONSTRUCTION SPREAD 8					
WC41	Astotin Creek	SW 22-55-21 364977E, 5958812N 53° 45' 37.4" N/ 113° 2' 53.7" W	December 6, 2016	Yes – fish salvage required (conducted on December 6, 2016)	Isolated trenched
WC42	Ross Creek	SE 28-54-22 355910E, 5950988N 53° 41' 15.7" N/ 113° 10' 55.4" W	December 5, 2016	Yes – fish salvage required (conducted on December 5, 2016)	Isolated trenched
WC43	Pointe-Aux-Pins Creek	SW 31-53-22 351890E, 5943585N 53° 37' 12.3" N/ 113° 14' 21.6" W	September 24, 2016	Yes – fish salvage required (conducted on September 24 and 25, 2016)	Isolated trenched
WC44	Oldman Creek	SW 26-53-23 348337E, 5941965N 53° 36' 16.3" N/ 113° 17' 32.0" W	September 7, 2016	Yes – fish salvage required (conducted on September 12, 2016)	Isolated trenched
WC45	Unnamed tributary to the North Saskatchewan River	NE 22-53-23 347456E, 5941380N 53° 35' 56.4" N/ 113° 18' 18.9" W	June 21, 2016	Yes – fish salvage not required due to a lack of instream activity.	Trenchless

Table A1-1. Watercourse and Fish-Bearing Drainage Crossings on the Grand Rapids Pipeline Project

Site No.	Name	Legal Location (W4M), UTM Coordinates (NAD 83, Zone 12) Latitude/Longitude (DD-MM-SS)	Date Assessed	Watercourse Crossing Method Valid	Actual Crossing Method
FD8	Fish-bearing drainage	NE 21-53-23 346415E, 5940701N 53° 35' 33.4" N/ 113° 19' 14.3" W	March 16, 2015	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
WC46	Unnamed tributary to Clover Bar Creek	SE 21-53-23 346007E, 5940587N 53° 35' 29.3" N/ 113° 19' 36.2" W	March 3, 2016	Yes – fish salvage required (conducted on March 3, 2016)	Isolated trenched
WC46.1	Clover Bar Creek	SE 21-53-23 345843E, 5940537N 53° 35' 27.5" N/ 113° 19' 45.1" W	February 23, 2016	Yes – fish salvage required (conducted on February 24, 2016)	Isolated trenched
WC46.2	Clover Bar Creek	SE 21-53-23 345680E, 5940333N 53° 35' 20.7" N/ 113° 19' 53.5" W	February 18, 2016	Yes – fish salvage required (conducted on February 19, 2016)	Isolated trenched
WC47	Clover Bar Creek	SW 21-53-23 345448E, 5940059N 53° 35' 11.6" N/ 113° 20' 5.7" W	October 9, 2015	Yes – fish salvage not required due to a lack of instream activity.	Trenchless
South Grand Rapids – Keyera Extension					
FD9	Fish-bearing drainage	SW 4-53-23 345266E, 5935471N 53° 32' 43.0" N/ 113° 20' 7.4" W	January 12, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched
FD10	Fish-bearing drainage	NW 33-52-23 345266E, 5934408N 53° 32' 8.7" N/ 113° 20' 5.5" W	January 13, 2016	Yes – fish salvage not required due to dry or frozen to bottom conditions at centreline.	Trenched