SUMMIT CARBON SOLUTIONS, LLC PETITION FOR HAZARDOUS LIQUID PIPELINE PERMIT Docket No. HLP-2021-0001

EXHIBIT C

The Summit Carbon Solutions Pipeline System ("Pipeline") will transport carbon dioxide ("CO2") from participating ethanol plants in Iowa and other midwestern states to North Dakota for permanent sequestration. In Iowa, the Pipeline is approximately 681 miles in length, and traverses 29 Iowa counties, with a small amount of workspace in one additional county.

The Pipeline will consist of 4 to 24-inch nominal diameter pipeline, depending upon its location on the system. The Pipeline will be manufactured of carbon steel in accordance with API Specification 5L. The maximum operating pressure of the Pipeline will be 2,183 pounds per square inch in gauge ("psig"), and while there is no definition in the controlling Department of Transportation Pipeline and Hazardous Materials Safety Administration regulations, or relevant Board regulations, of 'normal operating pressure,' the line is expected to run at pressures ranging from 1,200-2,150 psig. The maximum capacity of the pipeline in Iowa is 12 million metric tons/year of CO2.

The Pipeline will be installed to a minimum depth of 48 inches from the top of the pipe and will be installed utilizing three primary methods: open cut (trench), boring, and horizontal directional drill.

The Pipeline route will include 645 secondary highway crossings. The names and locations of crossings of railroads and primary highways are below.

Boone County

The Pipeline route will include 2 secondary highway crossings and no primary highway crossings. The name and location of the crossing of a railroad is below.

| Crossing | Location |
|---------------------------------|----------|
| Boone and Scenic Valley Railway | S6T85R28 |

<u>Cerro Gordo County</u>

The Pipeline route will include 25 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---|-------------------------------|
| Union Pacific Railroad | S3T95R20, S5T95R20, S29T96R20 |
| US Highway 65 (Jefferson Highway Heritage | |
| Byway) | S3T95R20 |
| Interstate 35 | S5T95R21 |
| US Highway 18 | S29T96R20 |

Cherokee County

The Pipeline route will include 31 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---------------------------|-----------|
| Canadian National Railway | S1T92R42 |
| Iowa State Highway 3 | S1T92R42 |
| Iowa State Highway 31 | S6T90R40 |
| US Highway 59 | S27T90R40 |

Chickasaw

The Pipeline route will include 16 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------------------|-----------|
| US Highway 63 | S1T95R13 |
| US Highway 18 | S2T95R13 |
| Iowa, Chicago and Eastern Railroad | S15T95R14 |

<u>Clay</u>

The Pipeline route will include 35 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------------------|-----------|
| US Highway 71 | S24T95R37 |
| Iowa, Chicago and Eastern Railroad | S16T96R35 |
| US Highway 18 | S16T96R35 |

Crawford

The Pipeline route will include 21 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---|-----------|
| US Highway 59 | S32T84R39 |
| Iowa State Highway 141 | S32T84R39 |
| Canadian National Railway | S21T83R39 |
| Union Pacific Railroad | S21T83R39 |
| US Highway 30 (Lincoln Highway Heritage | |
| Byway) | S21T83R39 |

<u>Dickinson</u>

The Pipeline route will include 23 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|------------------------|
| Union Pacific Railroad | S34T100R35, S35T100R35 |
| US Highway 71 | S20T100R35 |
| Iowa State Highway 9 | S34T100R35 |

Emmet

The Pipeline route will include 4 secondary highway crossings and no railroad or primary highway crossings.

Floyd

The Pipeline route will include 25 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|-----------------------|-----------|
| Cedar River Railroad | S16T95R15 |
| US Highway 18 | S18T95R15 |
| US Highway 218 | S14T95R16 |
| Iowa Highway 14 | S13T95R17 |
| Iowa Highway 147 | S15T95R17 |
| Iowa Northern Railway | S9T95R18 |

<u>Franklin</u>

The Pipeline route will include 16 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|-------------------------|-----------|
| Interstate 35 | S6T90R22 |
| United Pacific Railroad | S31T90R20 |
| US Highway 65 | S32T90R20 |

Fremont

The Pipeline route will include 4 secondary highway crossings and no railroad crossings. The name and location of the crossing of a primary highway is below.

| Crossing | Location |
|---------------|----------|
| US Highway 59 | S1T69R40 |

<u>Greene</u>

The Pipeline route will include 8 secondary highway crossings and no railroad or primary highway crossings.

Hancock

The Pipeline route will include 29 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|-----------|
| Union Pacific Railroad | S18T95R23 |
| US Highway 69 | S18T95R23 |
| Iowa State Highway 17 | S30T95R26 |

<u>Hardin</u>

The Pipeline route will include 40 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---------------------------|---------------------|
| Canadian National Railway | S11T89R20 |
| US Highway 65 | S5T89R20, S33T86R21 |
| US Highway 20 | S9T88R19 |
| Iowa State Highway 175 | S11T87R20 |
| Iowa State Highway 65 | S33T86R21 |

<u>Ida</u>

The Pipeline route will include 23 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---------------------------|-----------|
| US Highway 20 | S35T89R39 |
| Iowa State Highway 175 | S20T87R39 |
| Canadian National Railway | S20T87R39 |

<u>Kossuth</u>

The Pipeline route will include 24 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|-----------|
| Iowa State Highway 17 | S25T95R27 |
| Union Pacific Railroad | S30T95R28 |
| US Highway 169 | S25T95R29 |
| Iowa State Highway 15 | S30T95R30 |

Lyon

The Pipeline route will include 11 secondary highway crossings and no railroad crossings. The name and location of the crossing of a primary highway is below.

| Crossing | Location |
|---------------|----------------------|
| US Highway 18 | S20T98R47, S24T98R48 |

Montgomery

The Pipeline route will include 16 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---------------|-----------|
| US Highway 34 | S18T72R39 |
| BNSF Railway | S19T72R39 |

O'Brien

The Pipeline route will include 33 secondary highway crossings and no railroad crossings. The names and locations of the crossings of primary highways are below.

| Crossing | Location |
|-----------------------|-----------|
| US Highway 59 | S18T95R40 |
| Iowa State Highway 10 | S2T94R42 |

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The Pipeline route will include 5 secondary highway crossings and no railroad crossings. The name and location of the crossing of a primary highway is below.

| Crossing | Location |
|---------------|----------|
| US Highway 59 | S6T69R39 |

Palo Alto

The Pipeline route will include 18 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|-----------|
| Iowa State Highway 15 | S25T95R31 |
| Union Pacific Railroad | S28T95R31 |
| Iowa State Highway 4 | S30T95R32 |

<u>Plymouth</u>

The Pipeline route will include 22 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|-----------|
| Iowa State Highway 3 | S11T92R46 |
| US Highway 75 | S10T91R46 |
| BNSF Railway | S10T91R46 |
| Union Pacific Railroad | S11T91R46 |

Pottawattamie

The Pipeline route will include 21 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|--------------------------|----------------------|
| Interstate 80 | S2T77R40 |
| Iowa Interstate Railroad | S13T76R40, S30T76R39 |
| US Highway 59 | S30T76R39 |
| US Highway 6 | S6T75R39 |
| Iowa State Highway 92 | S6T74R39 |

Shelby

The Pipeline route will include 22 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|-----------------------|-----------|
| BNSF Railway | S32T81R39 |
| Iowa State Highway 37 | S32T81R39 |
| Iowa State Highway 44 | S17T79R39 |

<u>Sioux</u>

The Pipeline route will include 54 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|----------------------|
| Iowa State Highway 60 | S15T95R43, S16T95R43 |
| Union Pacific Railroad | S16T95R43 |
| US Highway 75 | S9T96R45, S16T96R45 |
| BNSF Railway | S5T96R45, S20T96R45 |
| US Highway 18 | S25T97R46 |
| Iowa State Highway 10 | S35T95R46 |

<u>Story</u>

The Pipeline route will include 21 secondary highway crossings and no primary highway crossings. The name and location of the crossing of a railroad is below.

| Crossing | Location |
|------------------------|---------------------|
| Union Pacific Railroad | S34T85R22, S2T83R23 |

Webster

The Pipeline route will include 31 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|---------------------------|-----------|
| Canadian National Railway | S6T88R27 |
| US Highway 20 | S7T88R27 |
| Iowa State Highway 175 | S10T86R28 |
| US Highway 169 | S15T86R28 |

Woodbury

The Pipeline route will include 22 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|-----------|
| U.S. Highway 20 | S33T89R46 |
| Union Pacific Railroad | S8T87R47 |
| Interstate I 29 | S8T87R47 |

<u>Wright</u>

The Pipeline route will include 43 secondary highway crossings. The names and locations of the crossings of railroads and primary highways are below.

| Crossing | Location |
|------------------------|--------------------------------|
| Iowa State Highway 3 | S34T92R26 |
| Union Pacific Railroad | S17T91R25, S15T91R26, S7T90R26 |
| Iowa State Highway 17 | S15T91R26 |
| US Highway 69 | S35T91R24 |