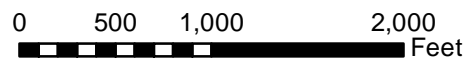


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 108 of 216

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**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

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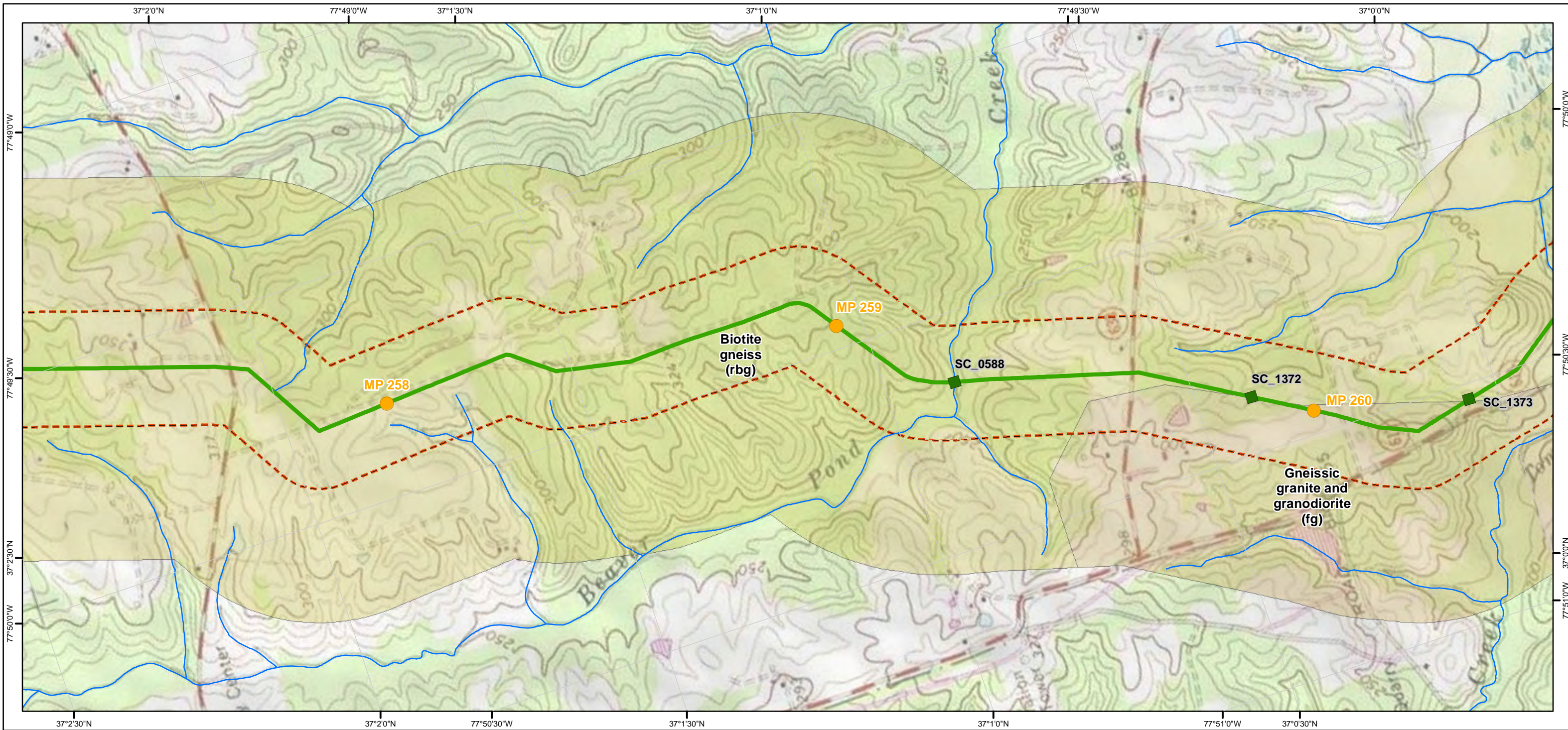
- 1) The current alignment centerline and mileposts provided by Dominion/GAI
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CORPORATION

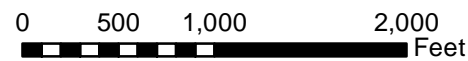


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 109 of 216

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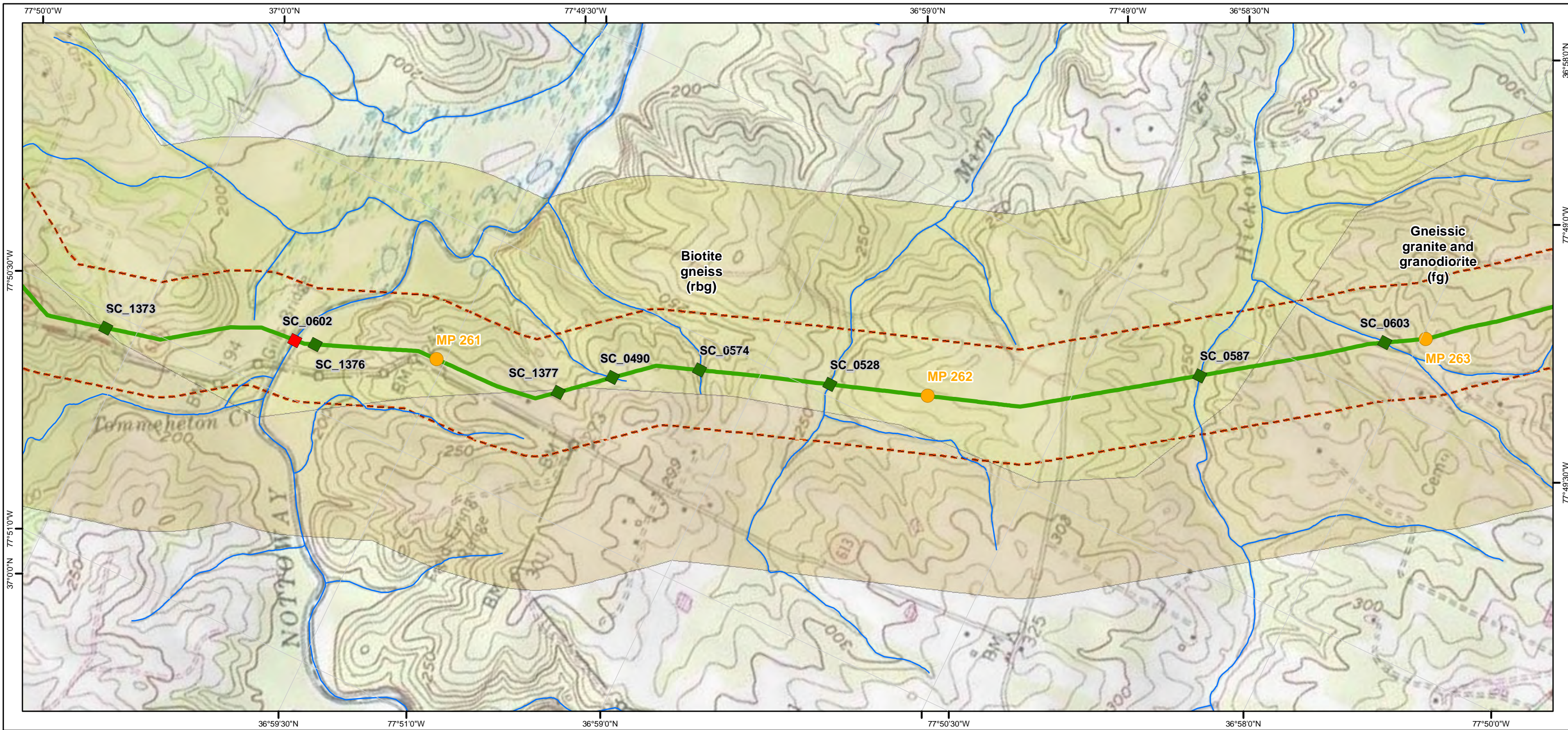
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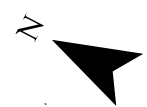
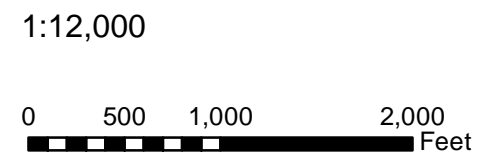




- Legend**
- Hydrotechnical Hazards**
- High
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  - Low
- Potential Slope Instability Hazards**
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  - Low
- Slope Inclination Along Route Centerline**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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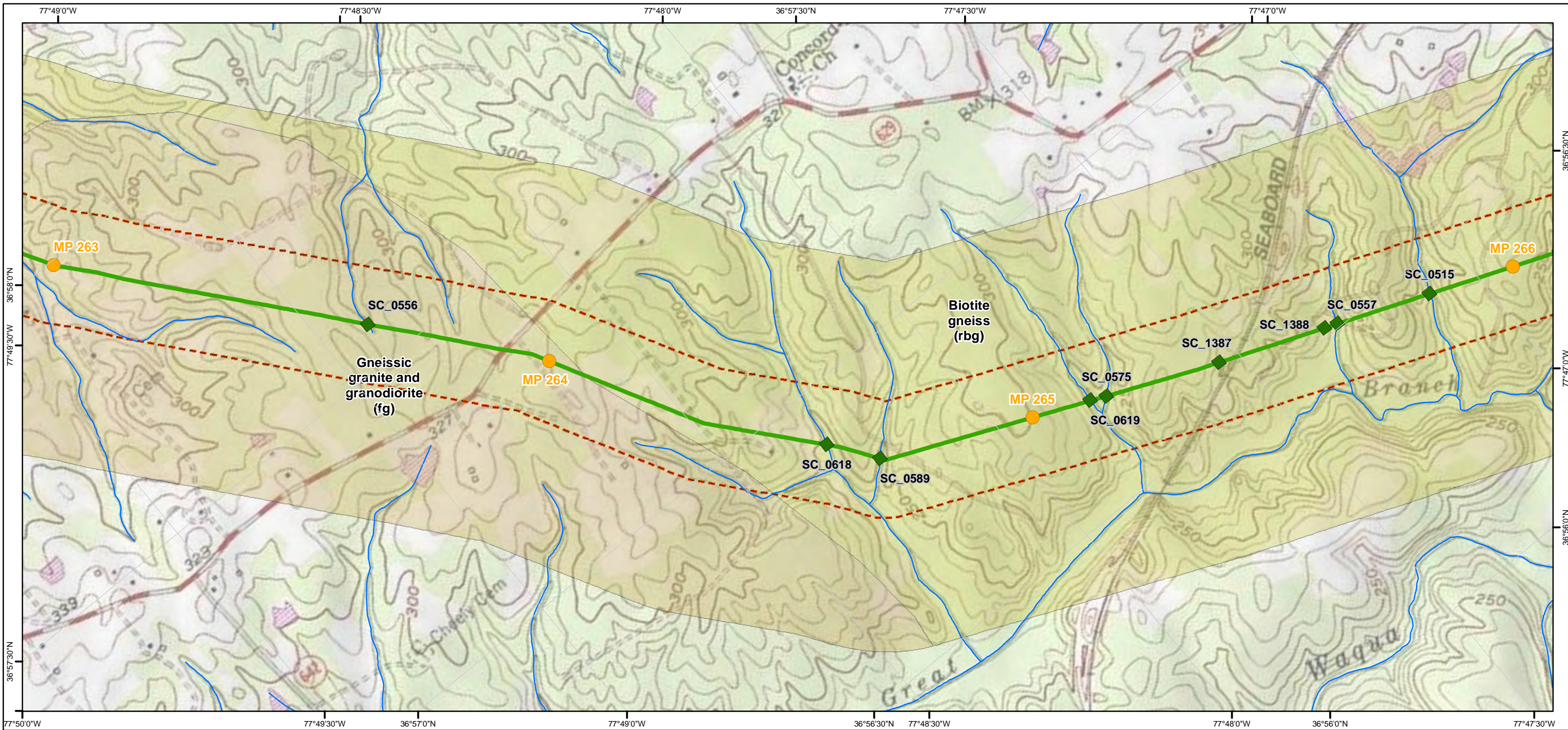
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**Geosyntec**  
consultants  
**TESSE CONSULTATIONS**

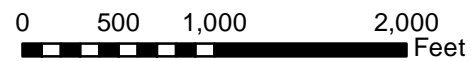


- Legend**
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  - Low
- Potential Slope Instability Hazards**
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  - Boreholes
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  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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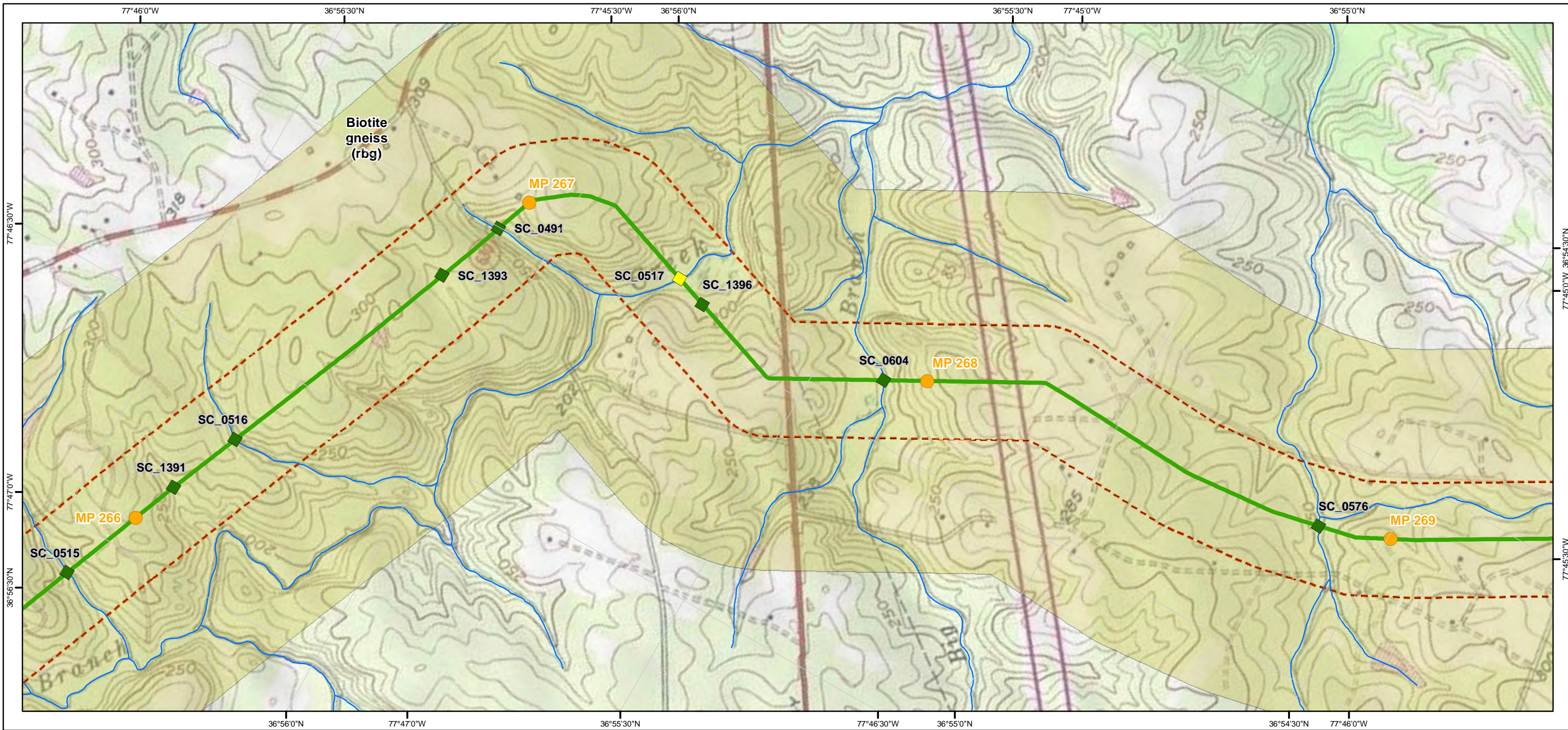
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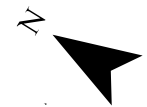
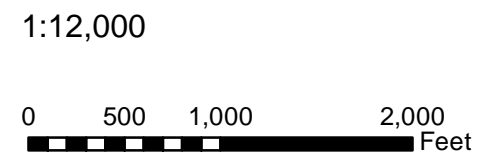




- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
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  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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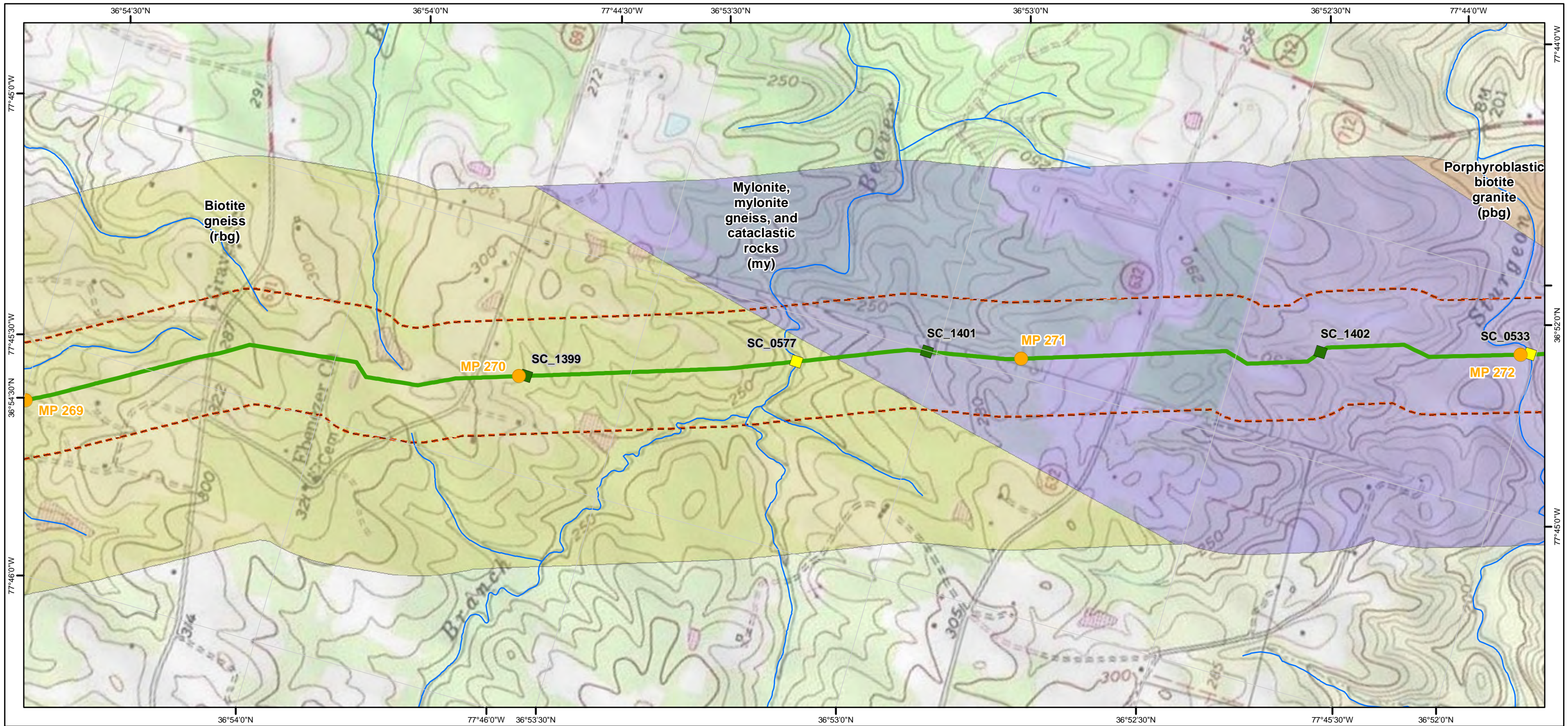


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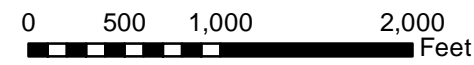


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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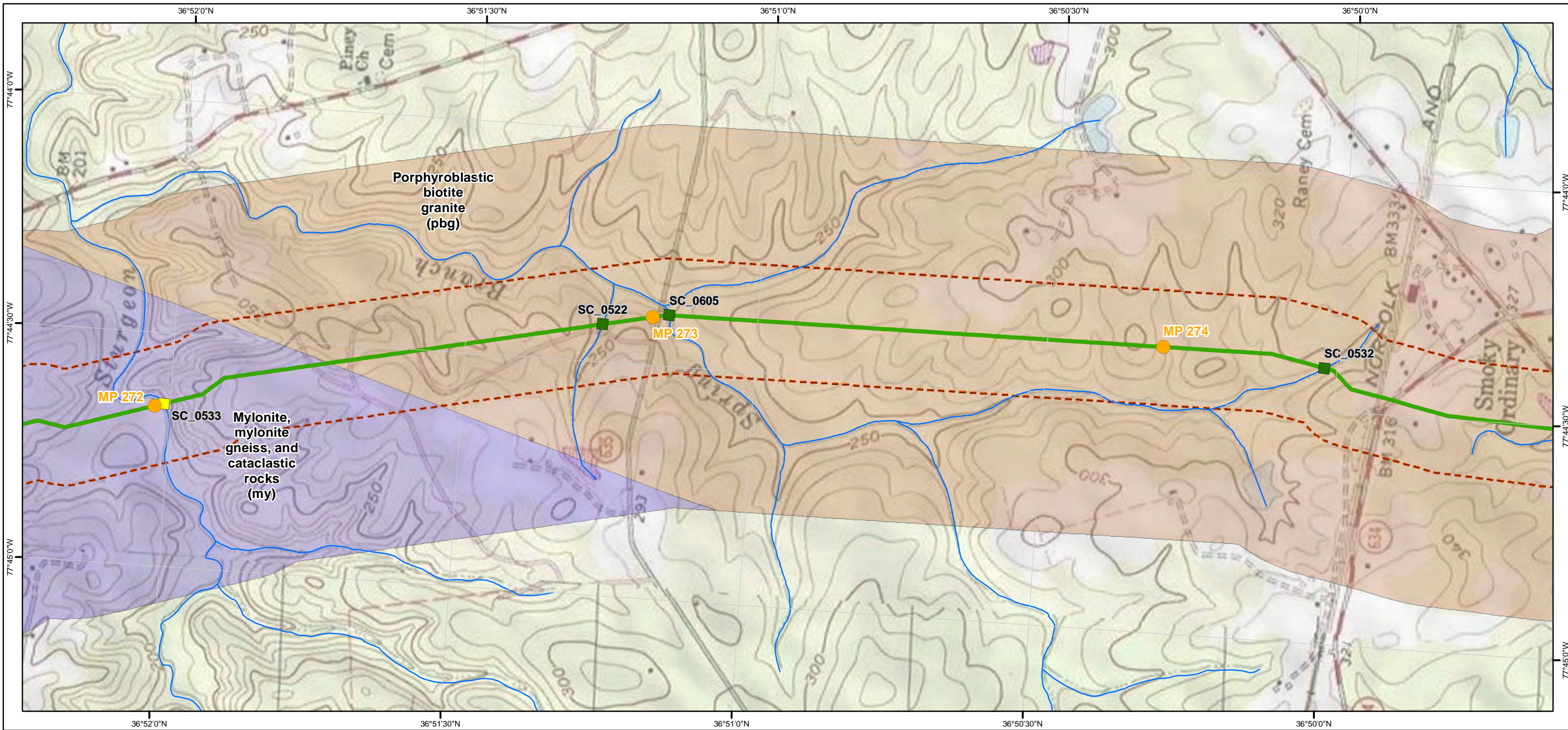
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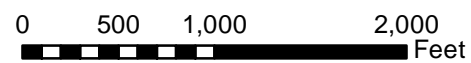


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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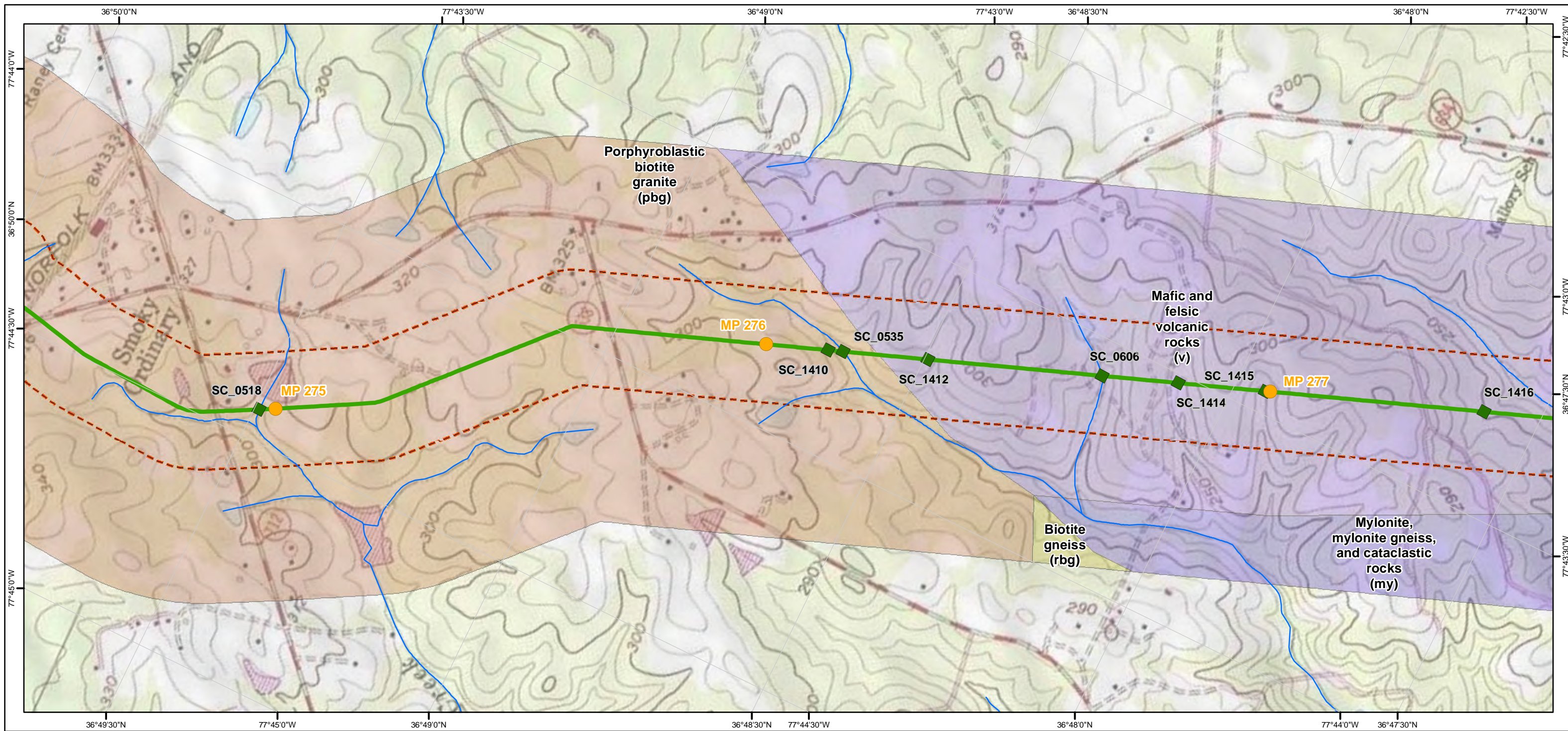
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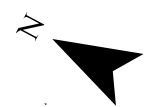
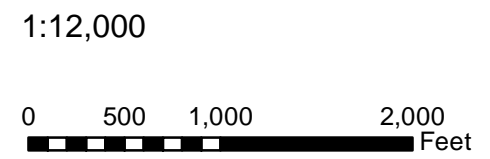
**Dominion**  
**Geosyntec**  
 consultants  
**TESSE**  **ATIONS**



- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
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  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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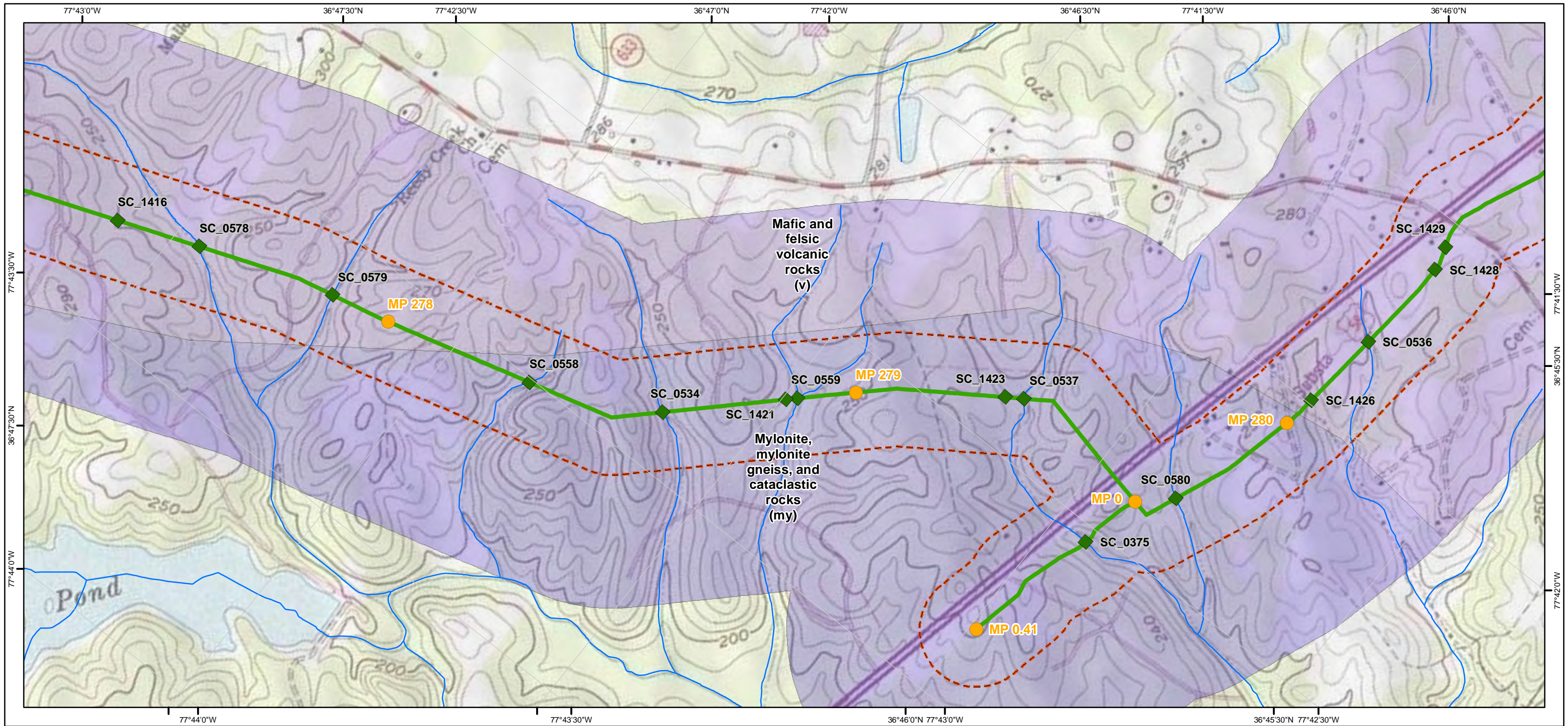
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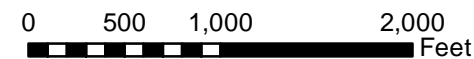


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
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  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 116 of 216

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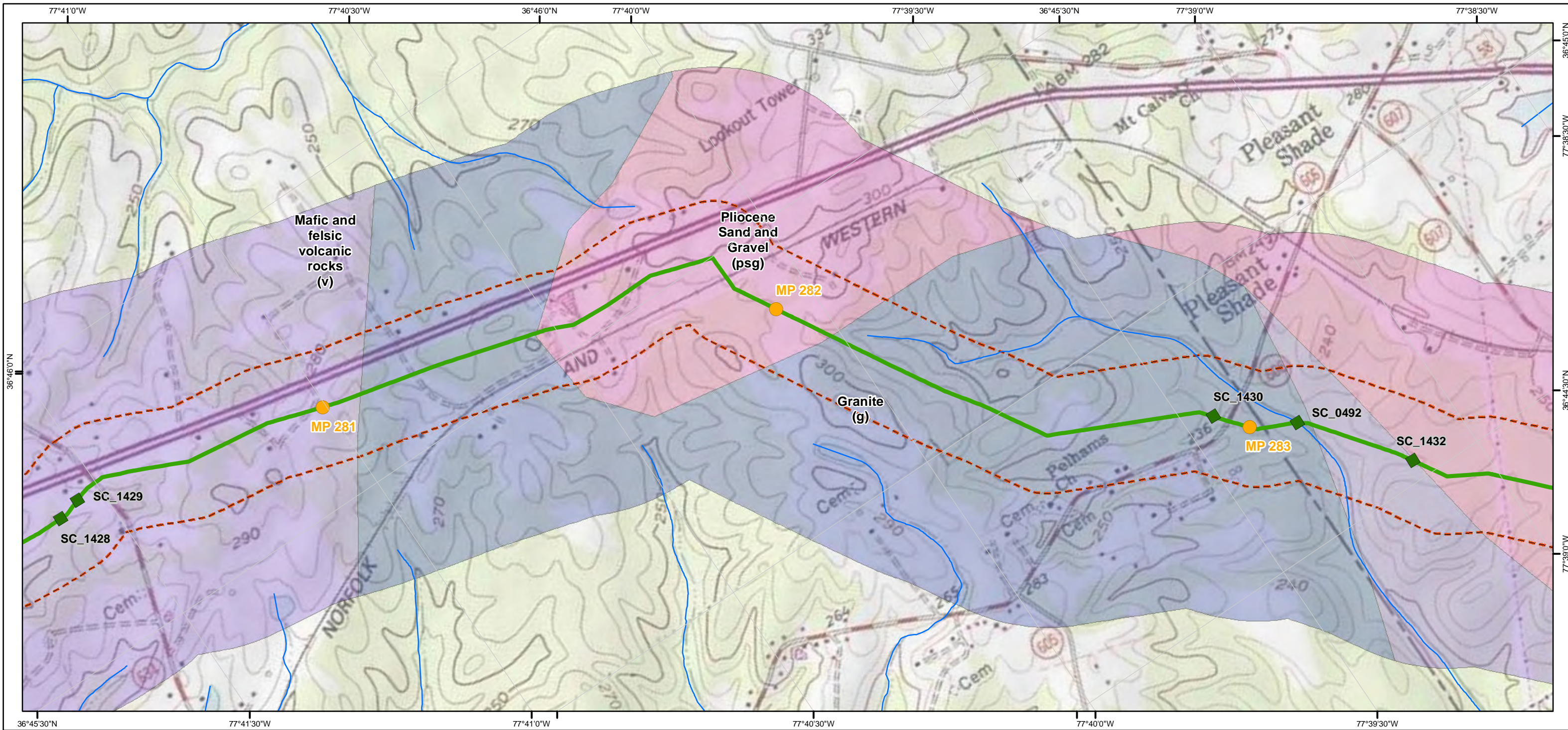
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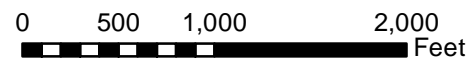


- Legend**
- Hydrotechnical Hazards**
- High
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- Potential Slope Instability Hazards**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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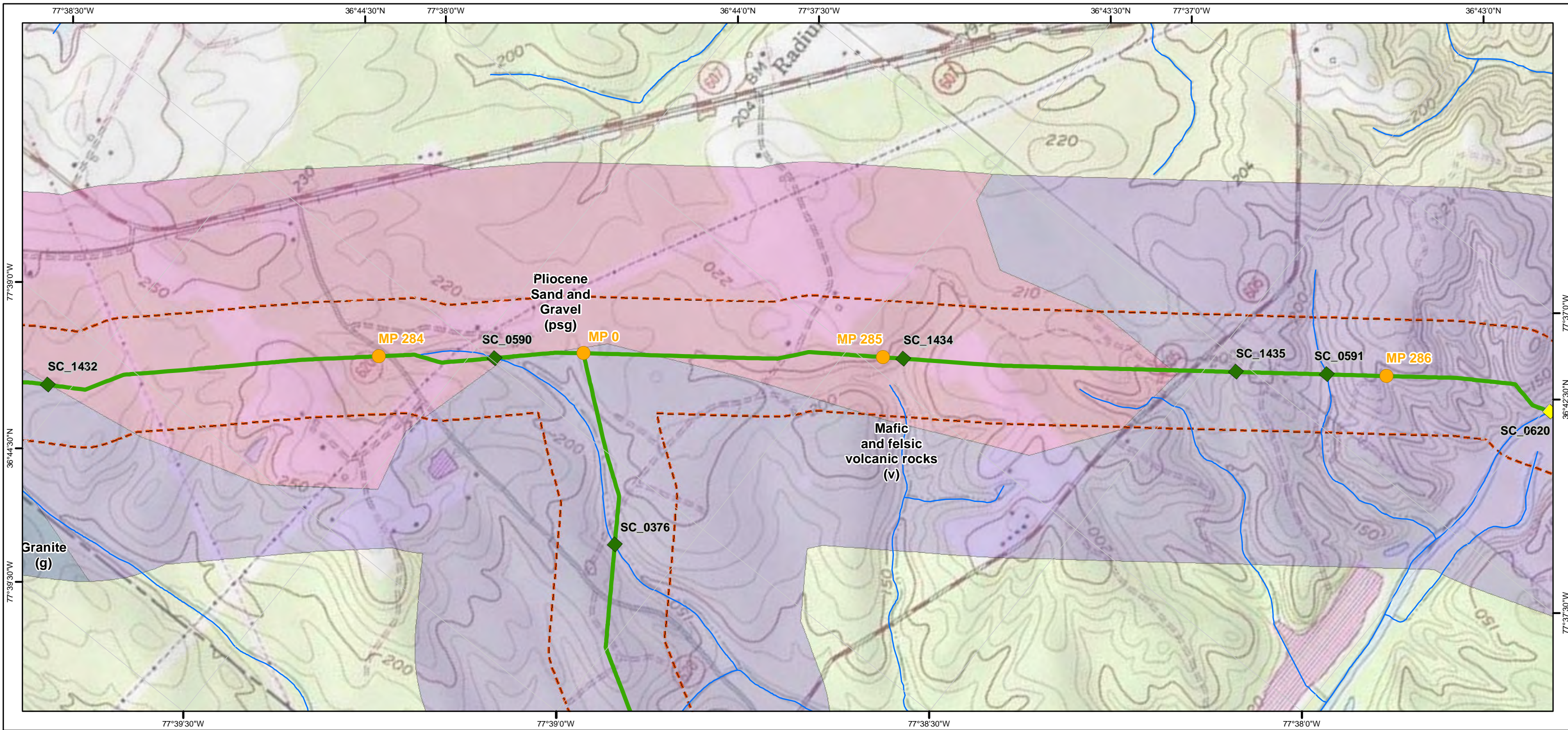
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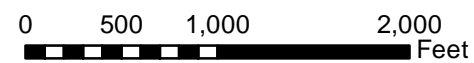


- Legend**
- Hydrotechnical Hazards**
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- Potential Slope Instability Hazards**
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- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 118 of 216

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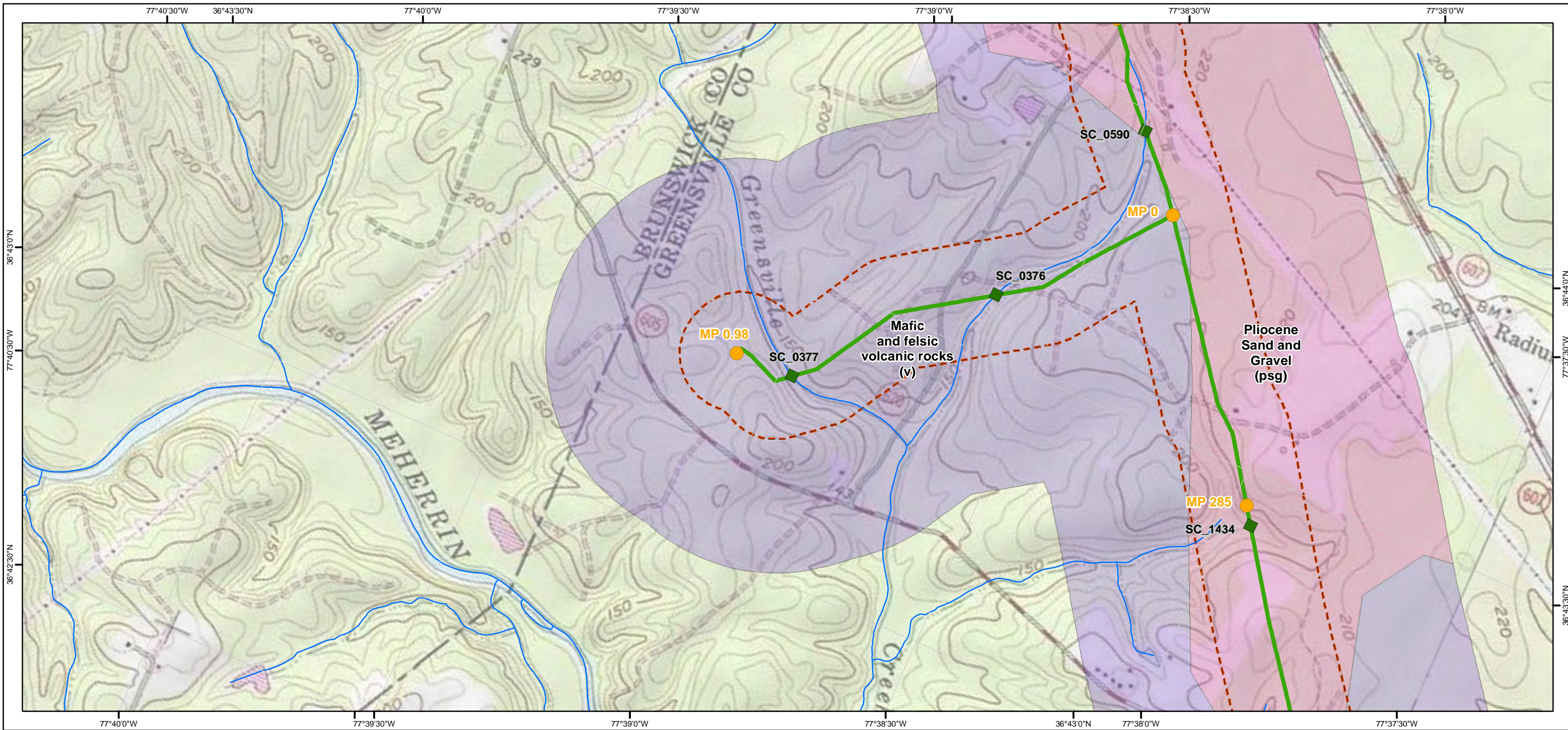
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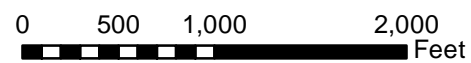


- Legend**
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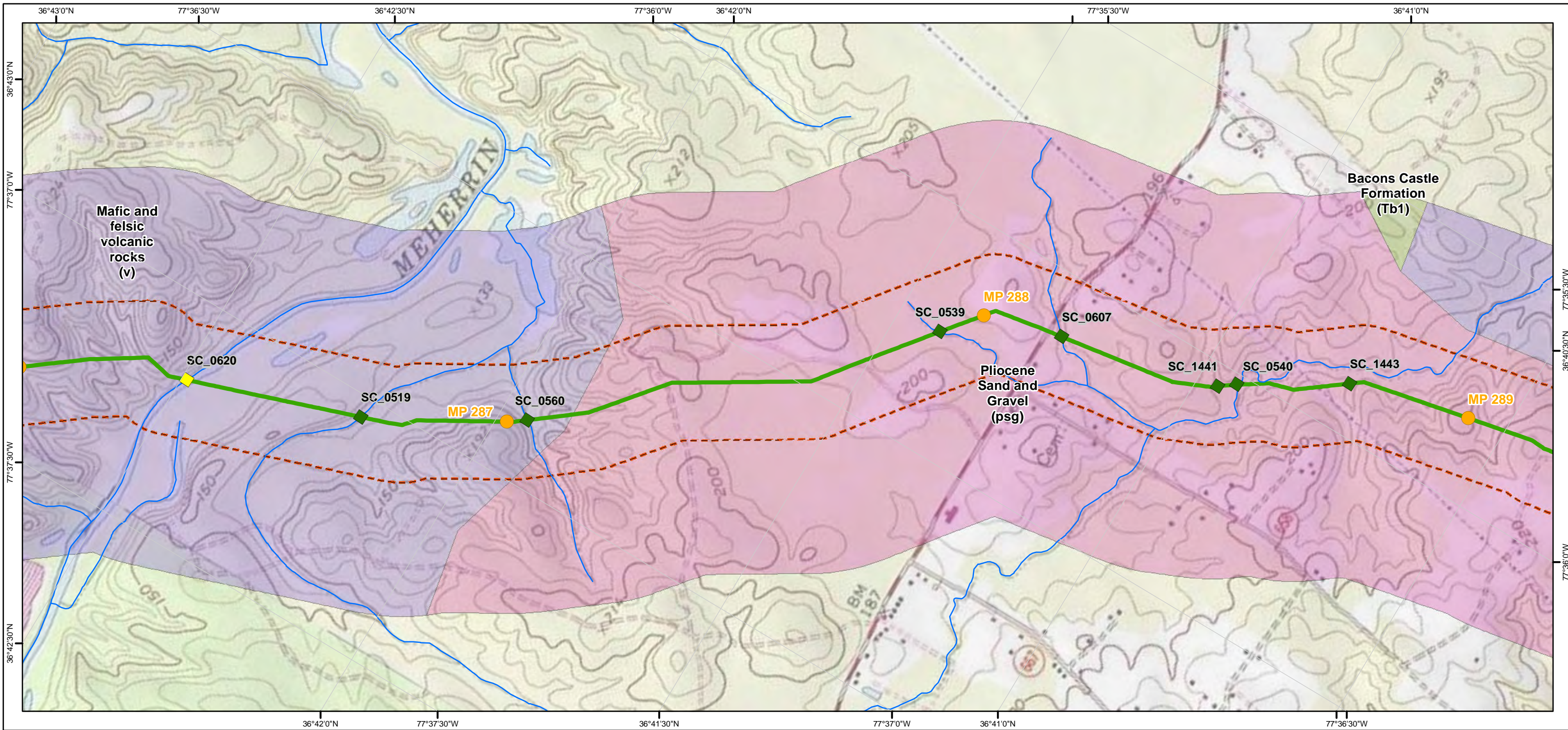
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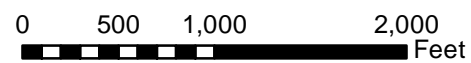


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 120 of 216

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**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

**Notes:**

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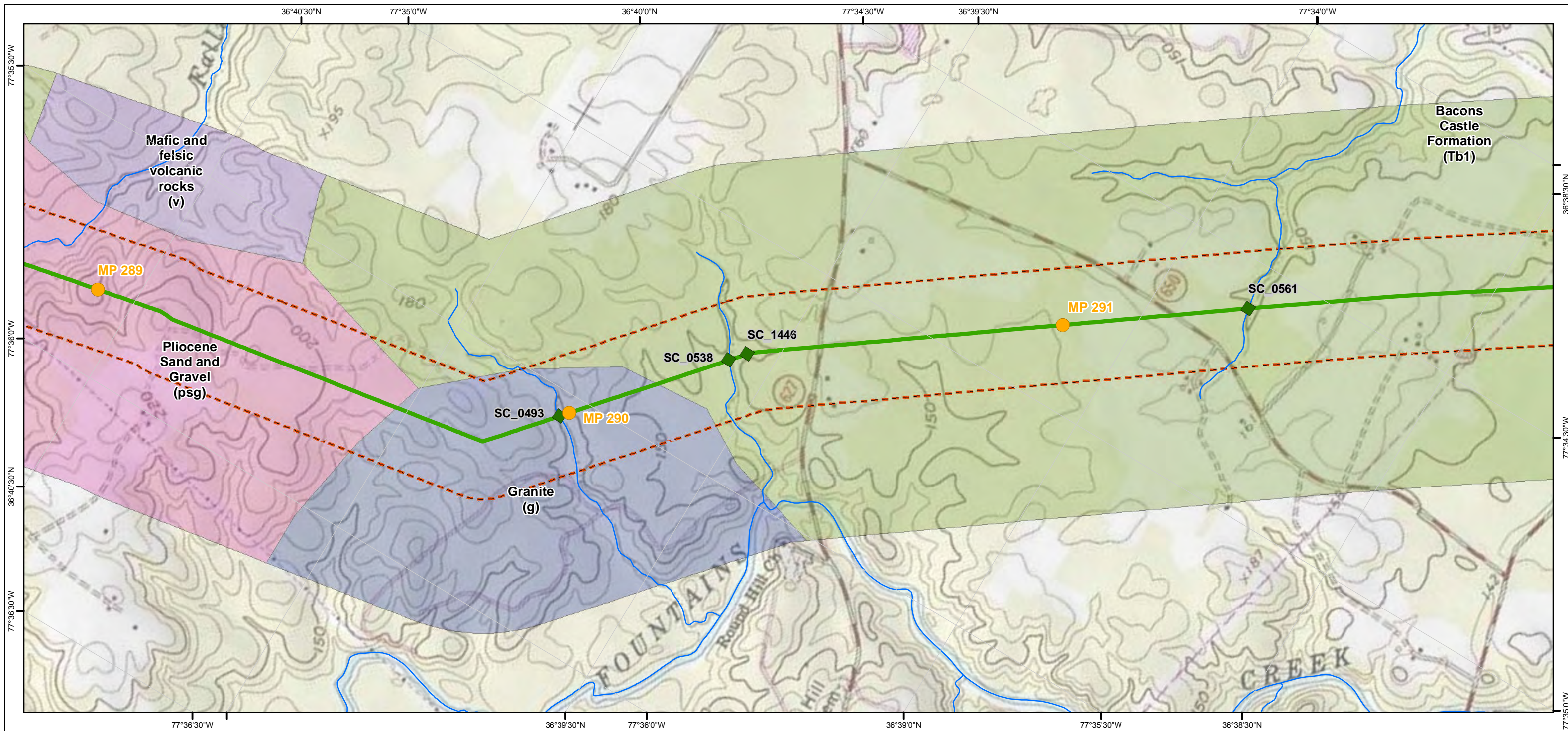


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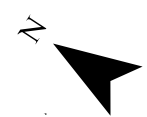
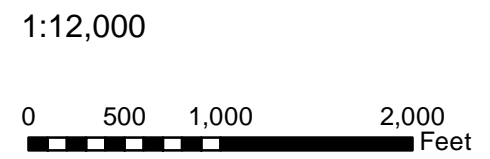
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- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
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- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 121 of 216

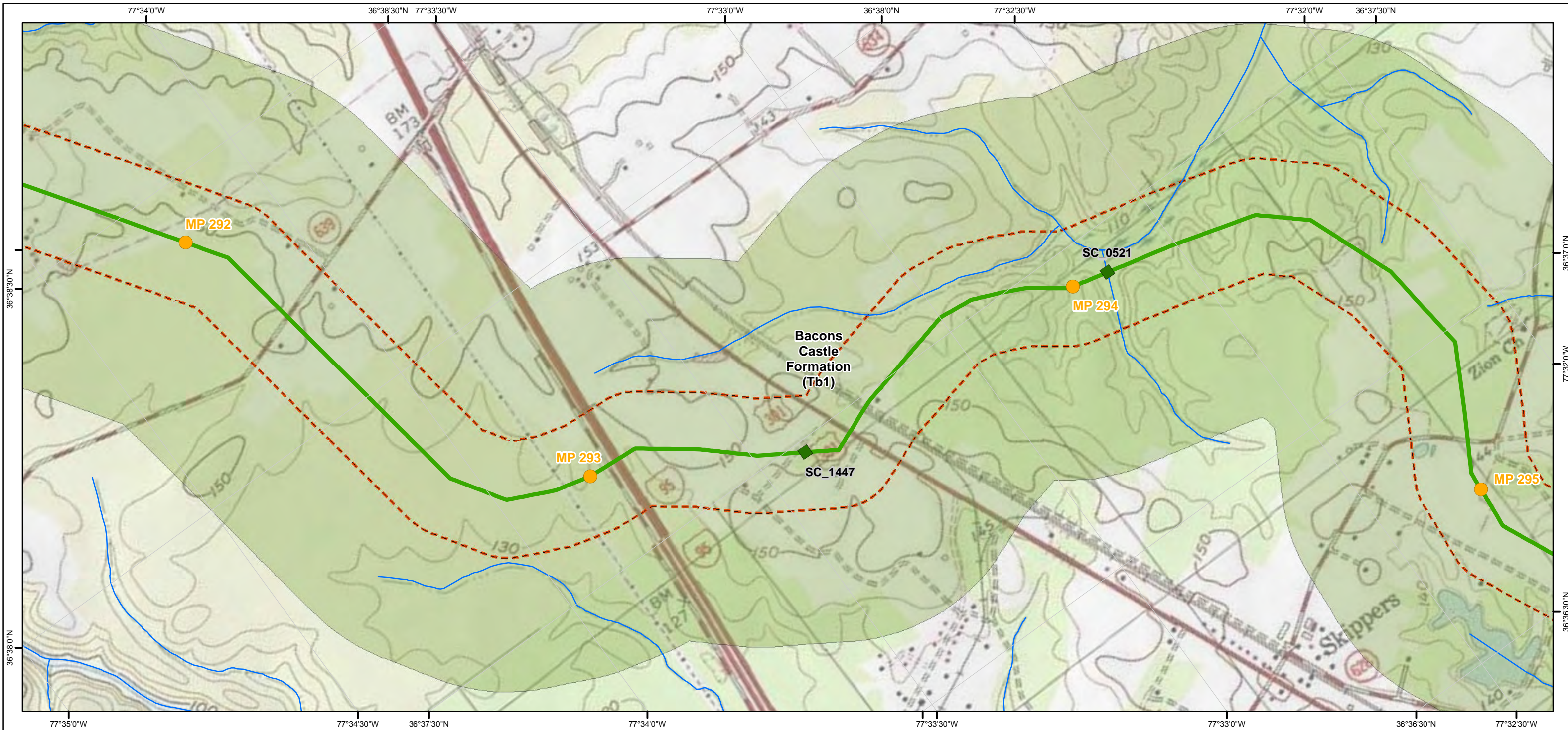


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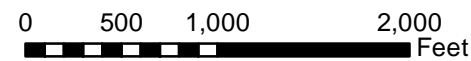


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 122 of 216

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**Document Information:**

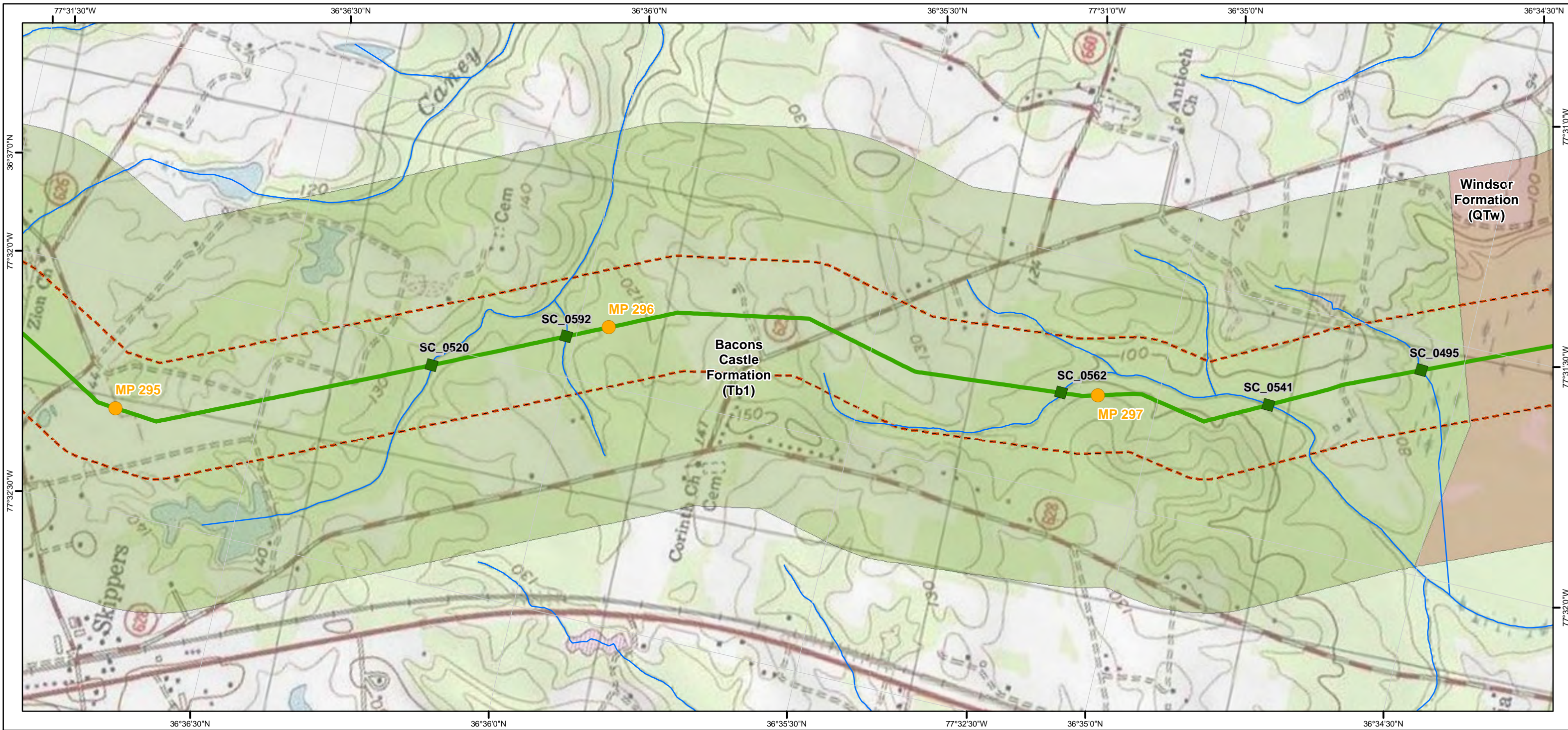
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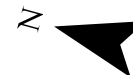
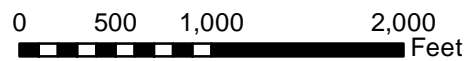


- Legend**
- Hydrotechnical Hazards**
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  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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  - Boreholes
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  - Faults
  - NHD Streams
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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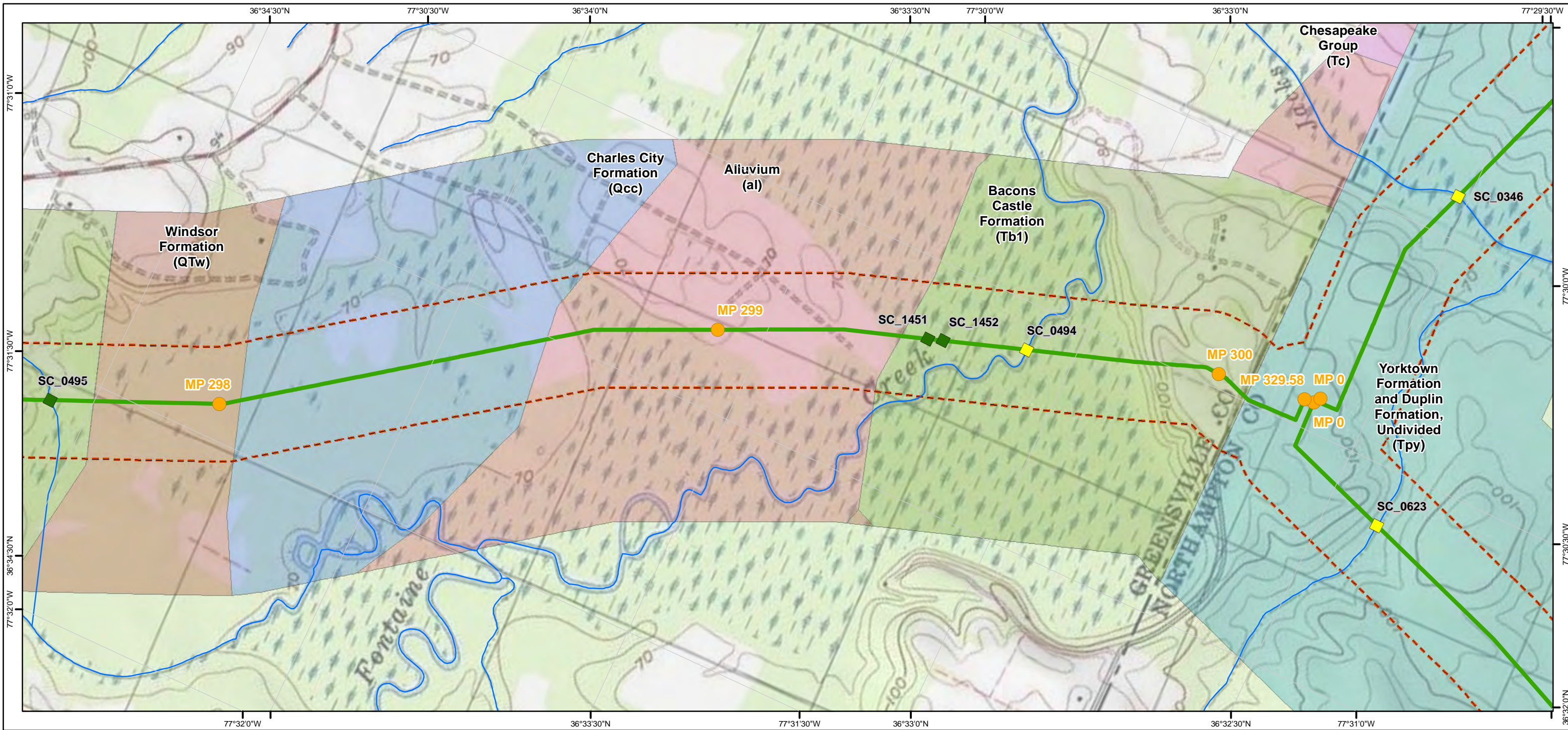
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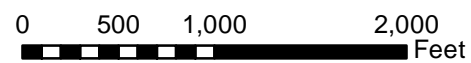


- Legend**
- Hydrotechnical Hazards**
- High
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  - Low
- Potential Slope Instability Hazards**
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  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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### Document Information:

Document No: DOM\_EC\_GEOL\_MA\_SER002

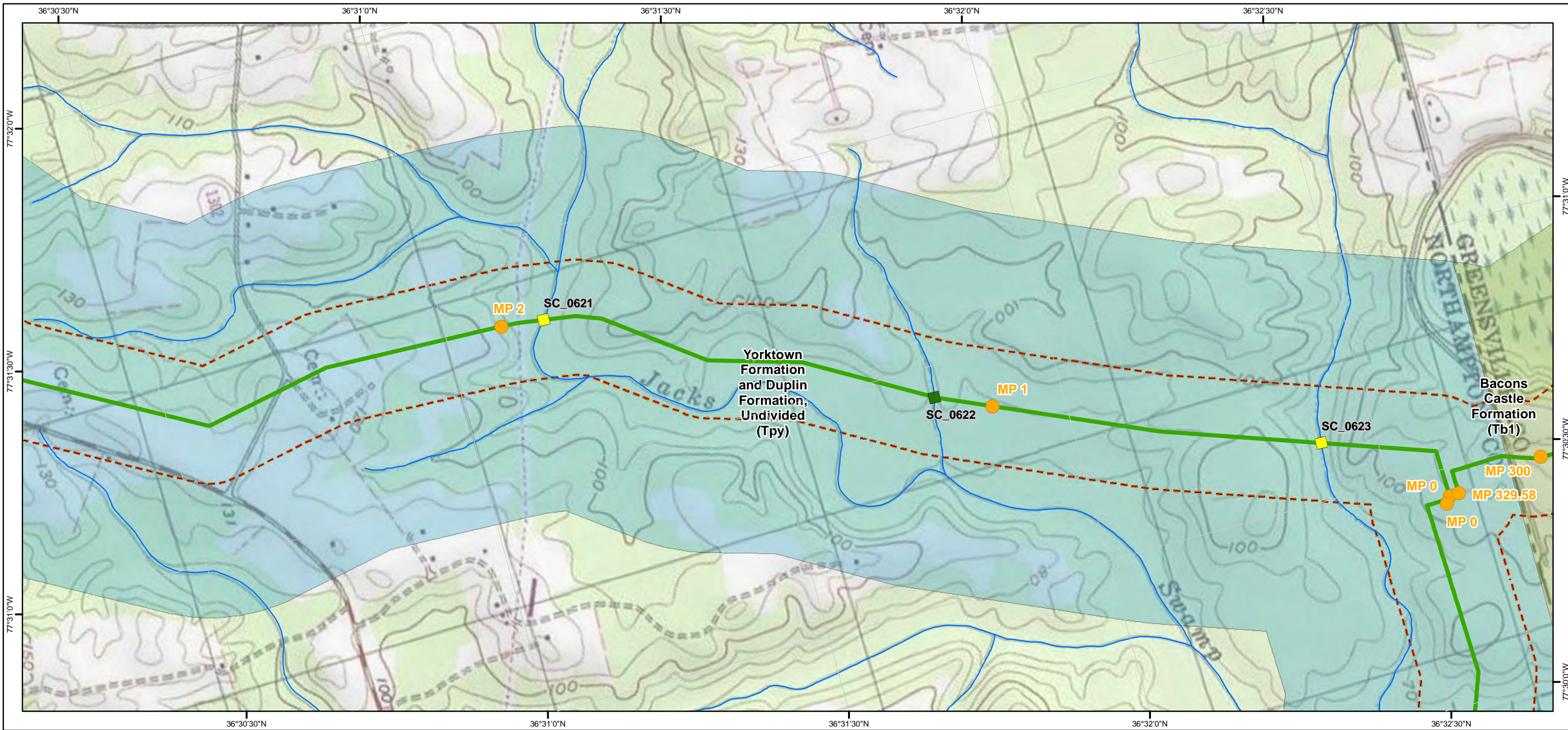
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**TESSE**  **ATIONS**

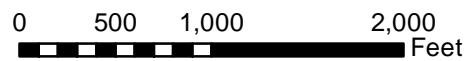


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
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- Potential Slope Instability Hazards**
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  - Low
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  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 125 of 216

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**Document Information:**

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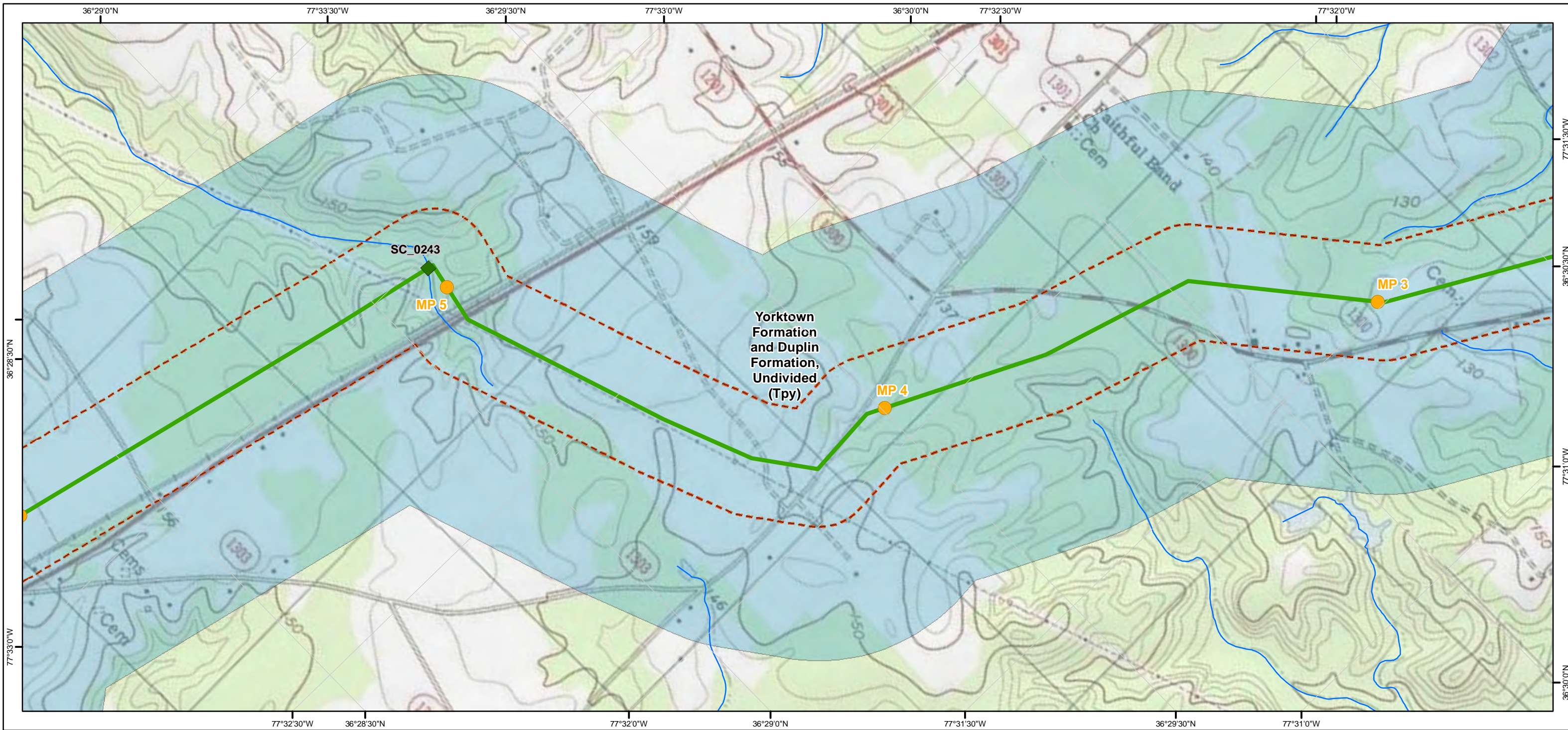
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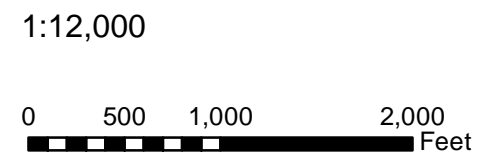
**Dominion**  
**Geosyntec**  
consultants  
**TESSE** **ATIONS**



- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
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- Potential Slope Instability Hazards**
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- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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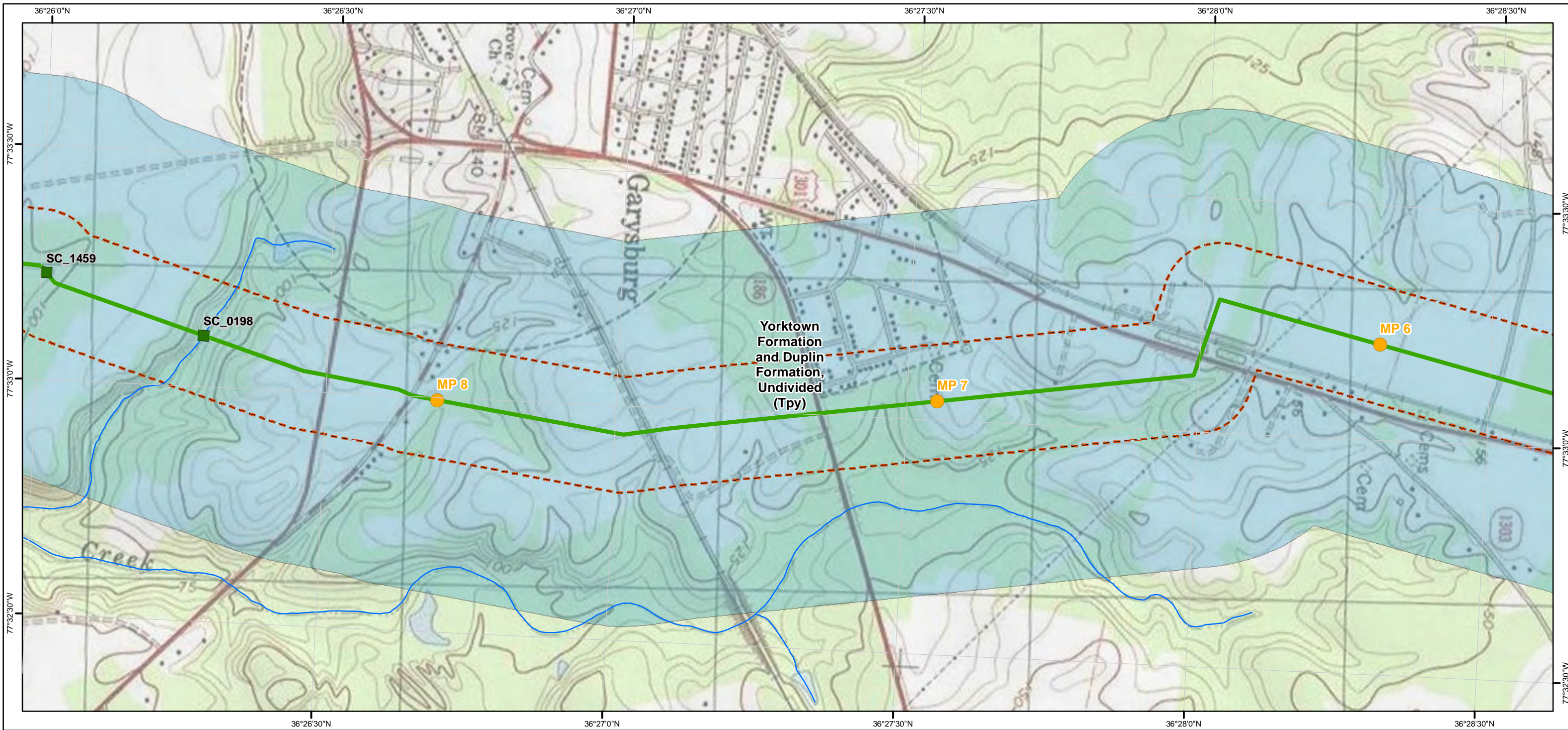
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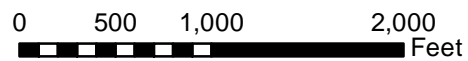


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 127 of 216

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Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
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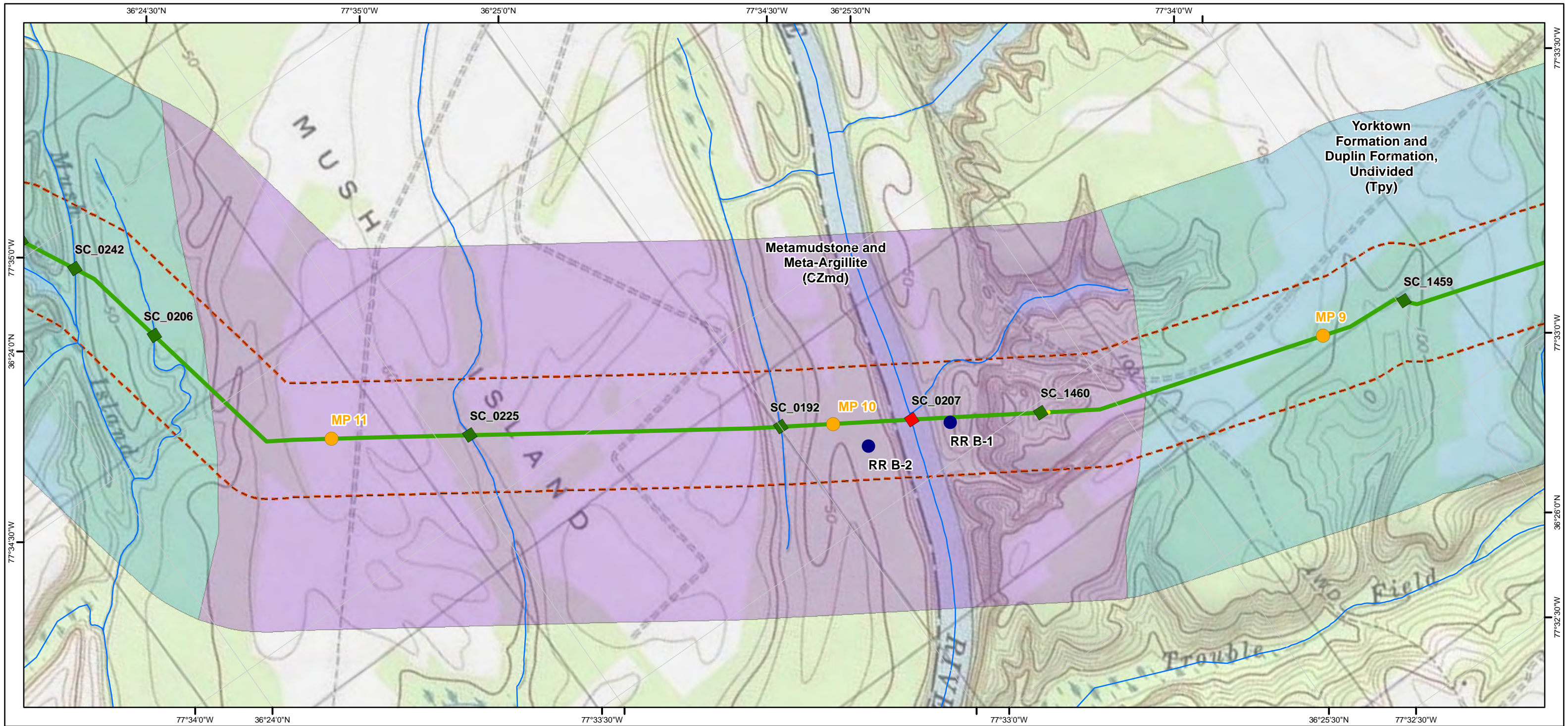
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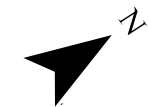
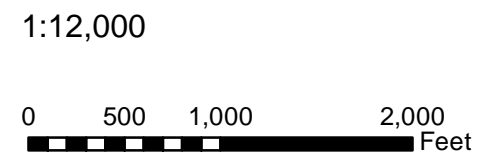
**TESSE**  **ATIONS**



- Legend**
- Hydrotechnical Hazards**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 128 of 216



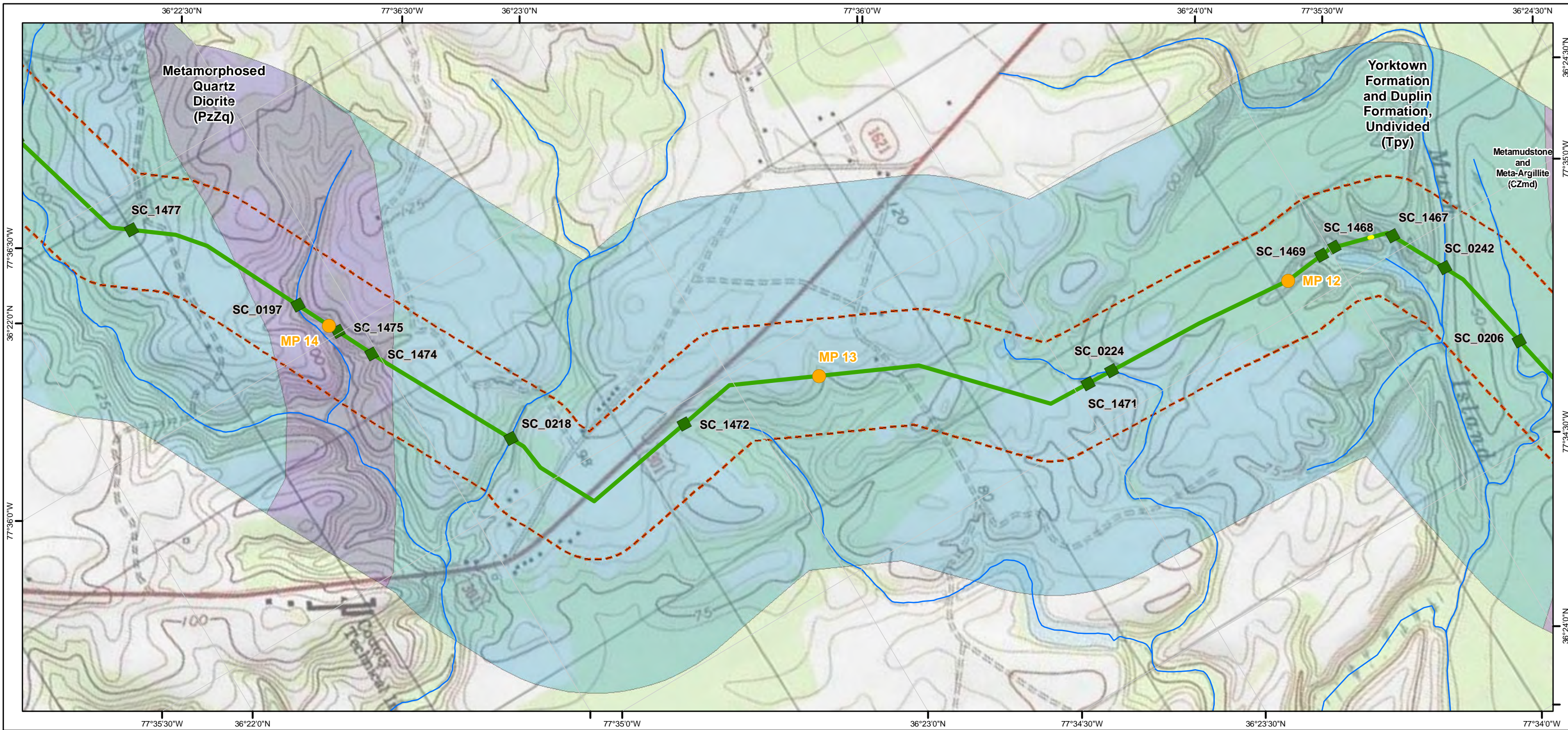
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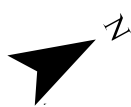
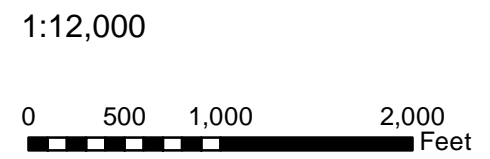
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 129 of 216

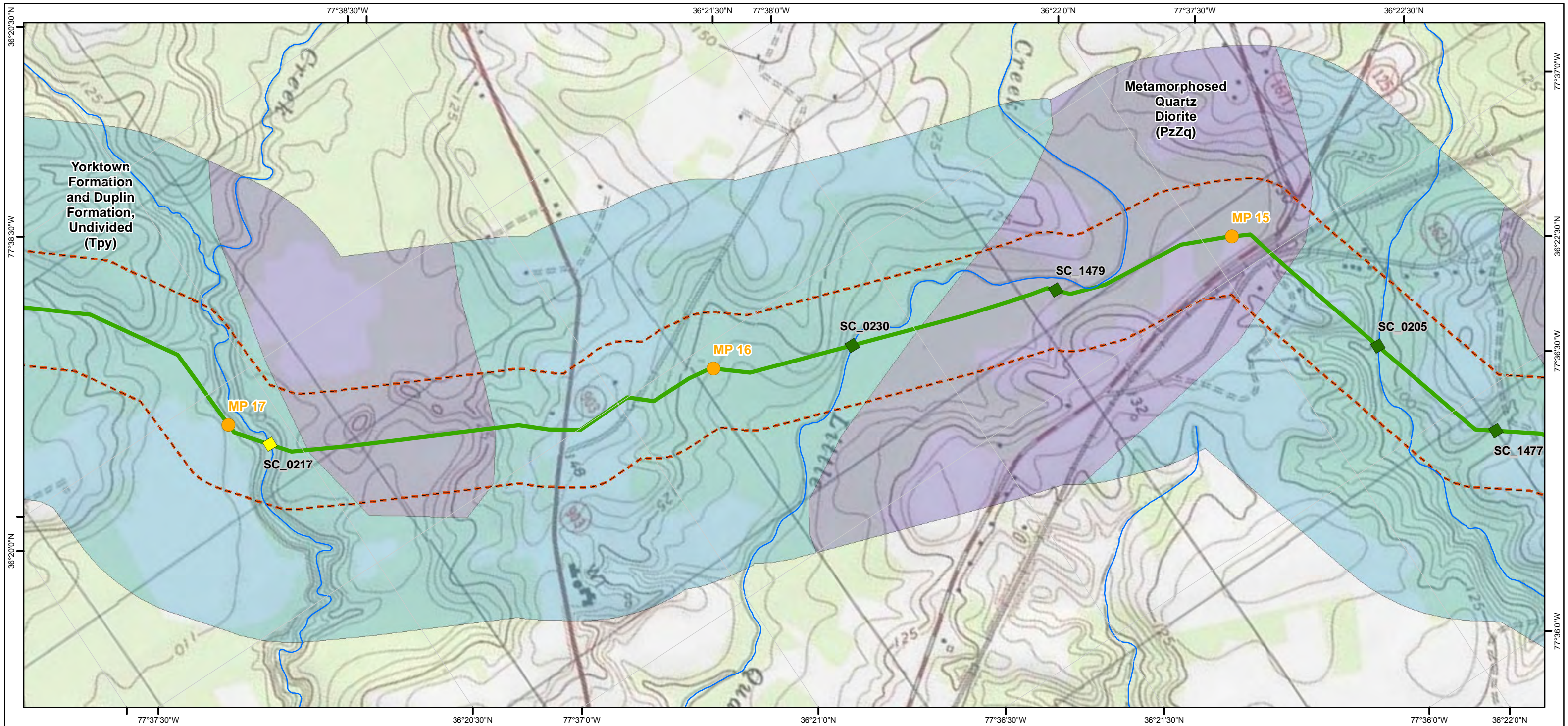


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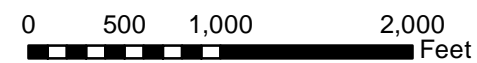


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 130 of 216

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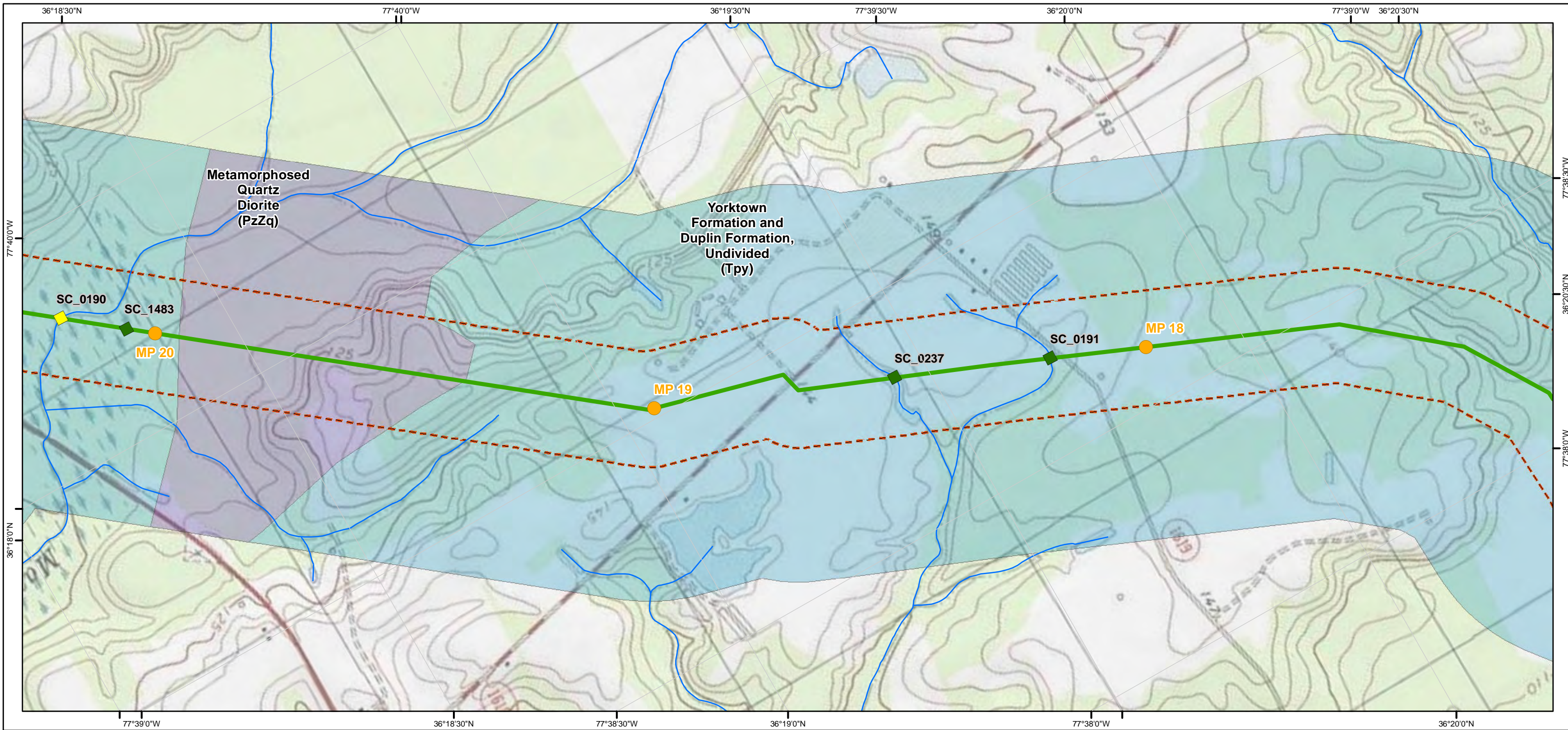
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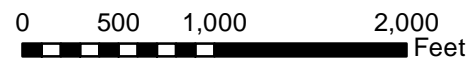


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  - 40.01% - 58% (Very Steep)
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  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 131 of 216

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**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

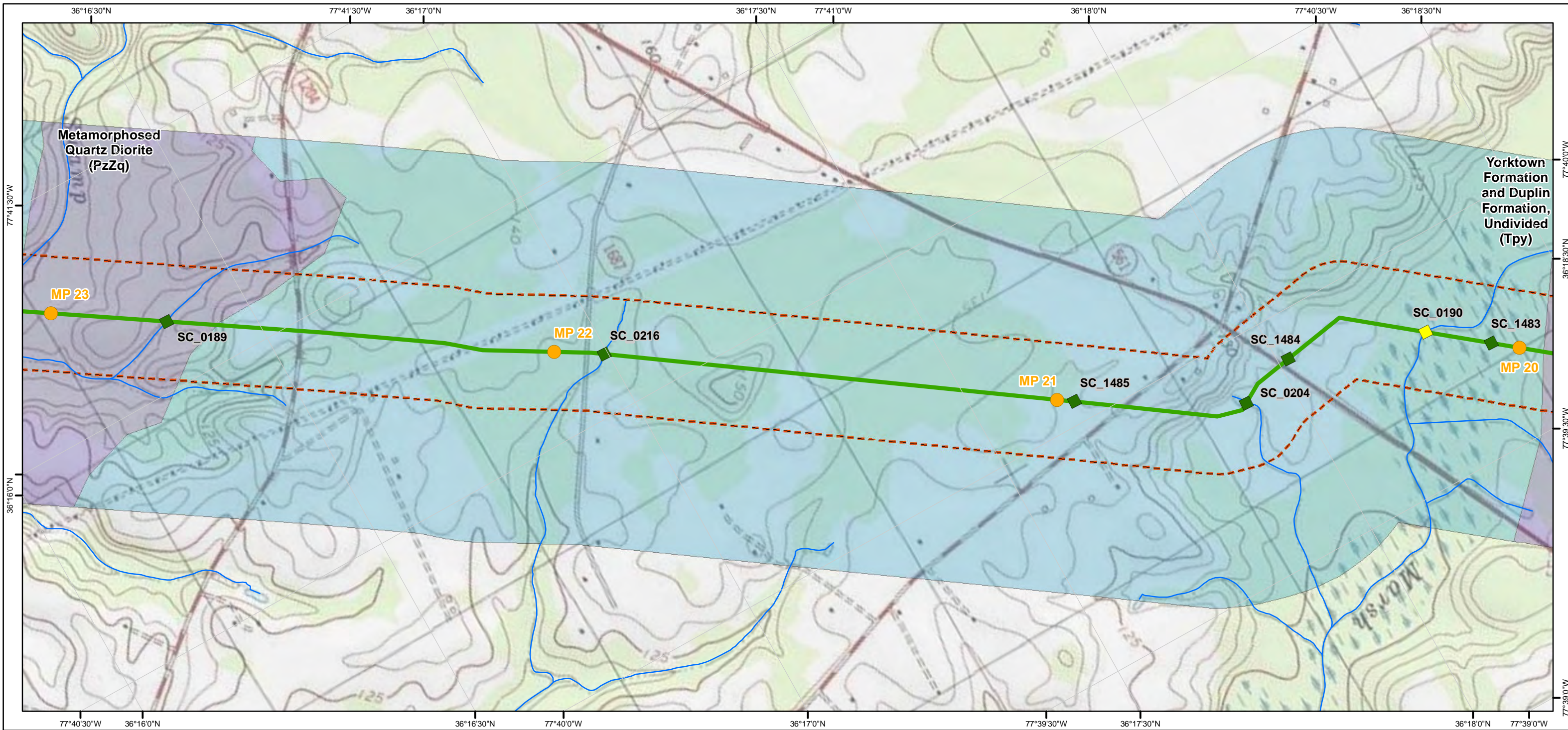
Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

**Notes:**

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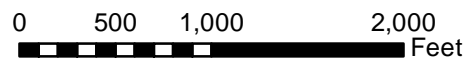


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 132 of 216

1:12,000



**Document Information:**

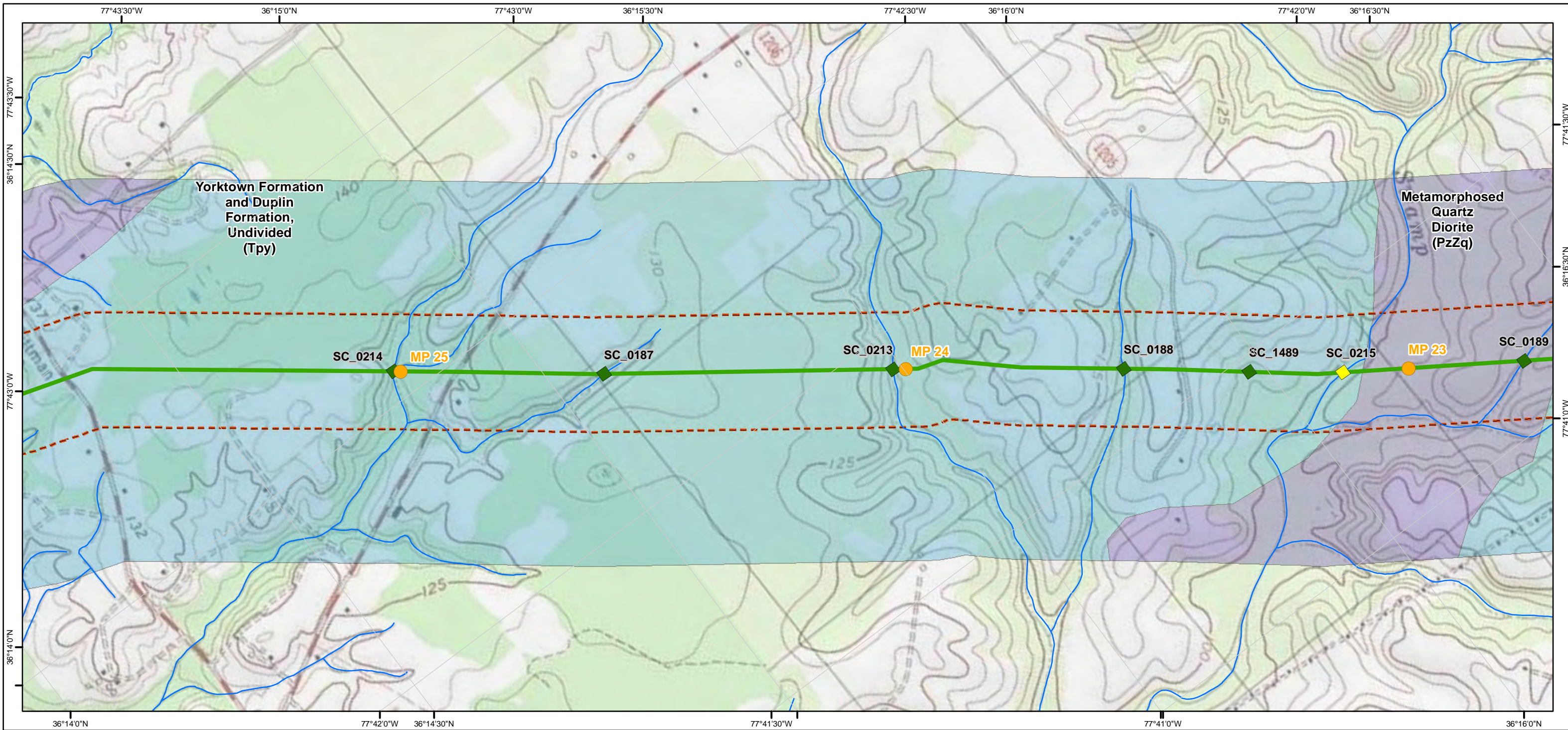
Document No: DOM\_EC\_GEOL\_MA\_SER002

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3	07-28-2016	PB	ZL
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5	04-21-2017	BP	ZL

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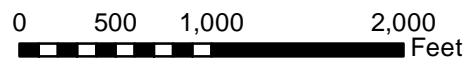


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
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  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 133 of 216

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**Document Information:**

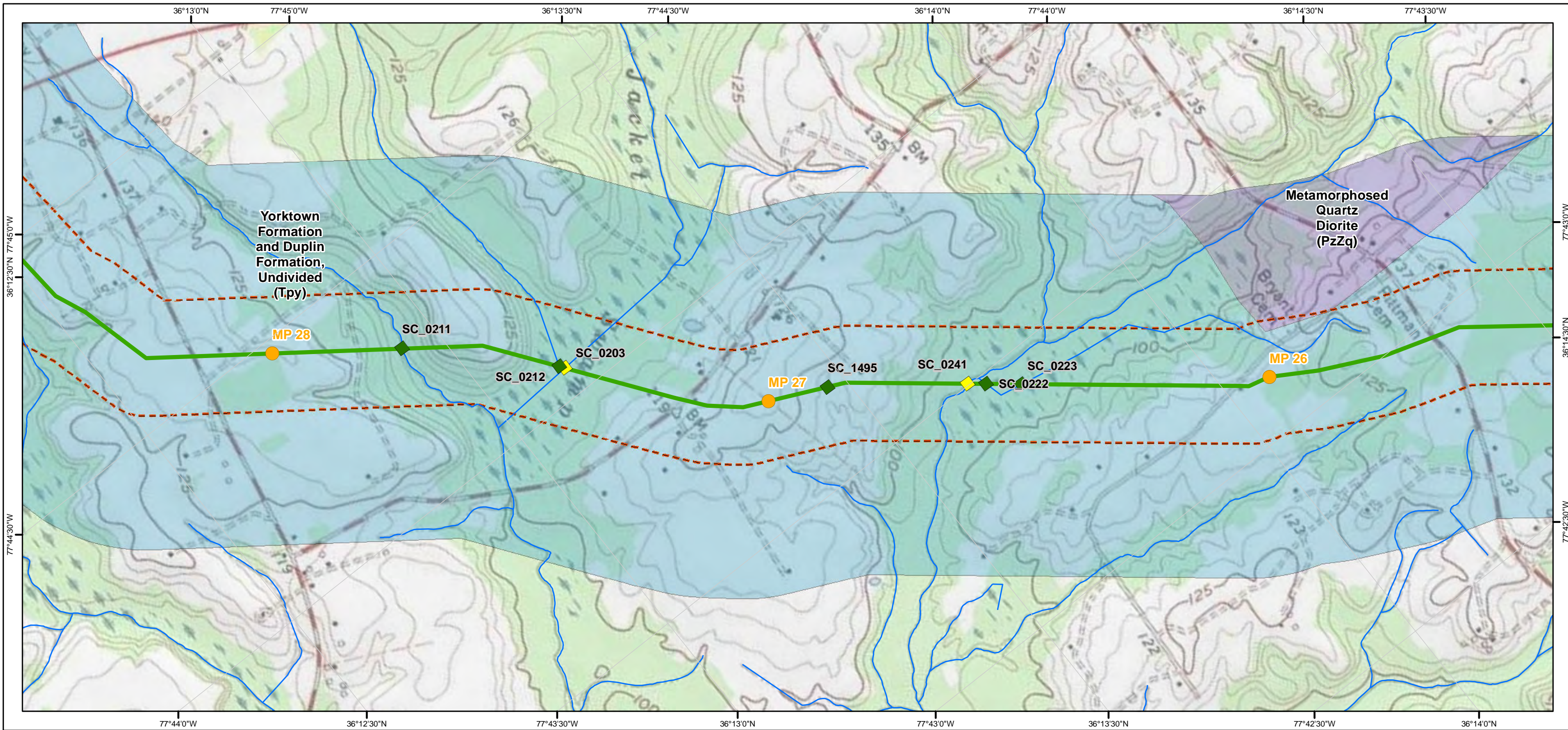
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3	07-28-2016	PB	ZL
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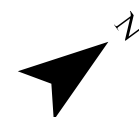
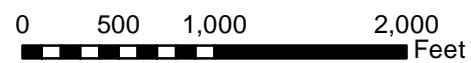


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 134 of 216

1:12,000



**Document Information:**

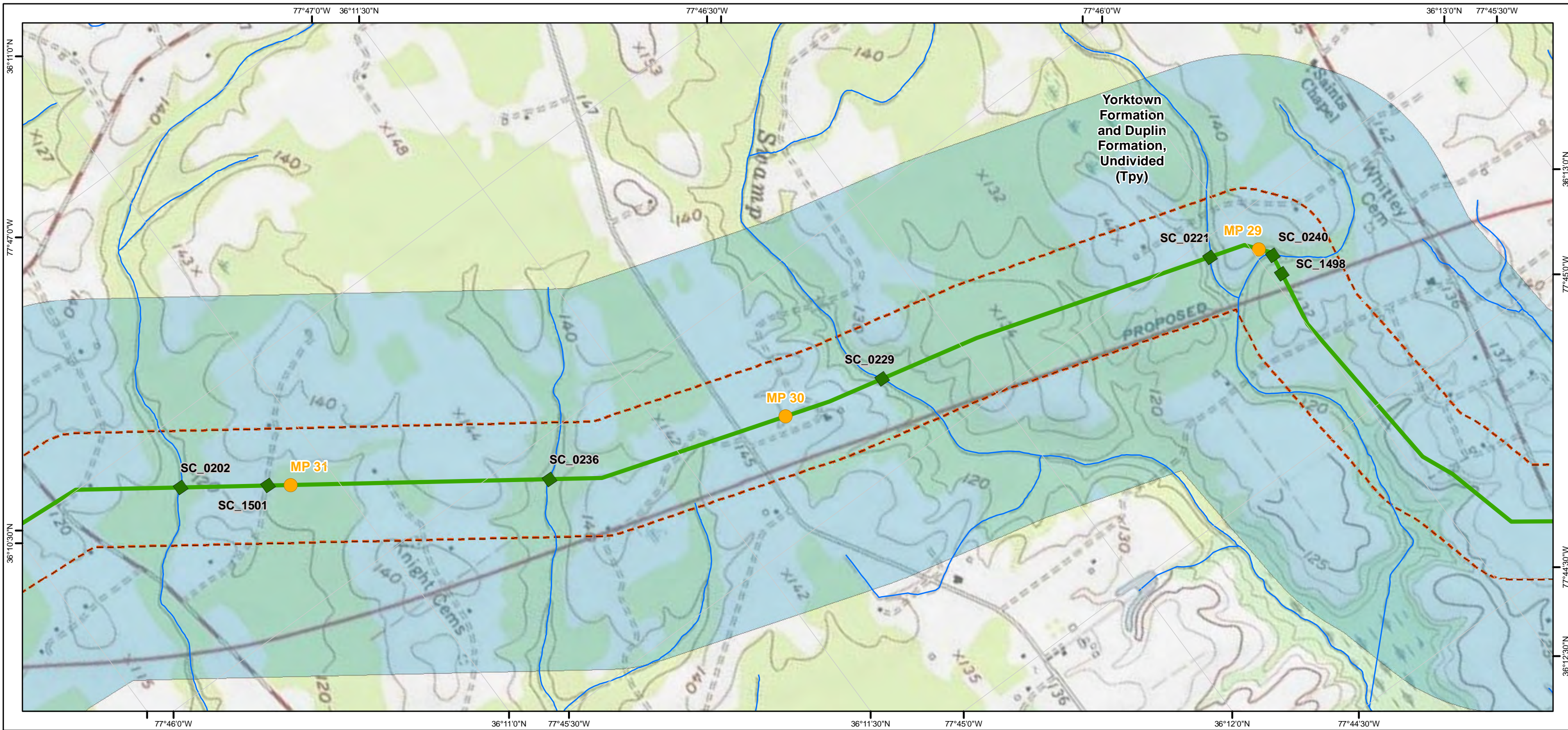
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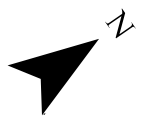
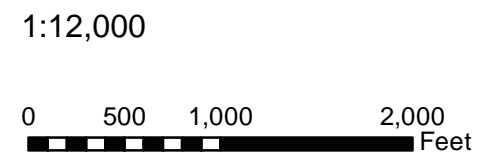




- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
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  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 135 of 216

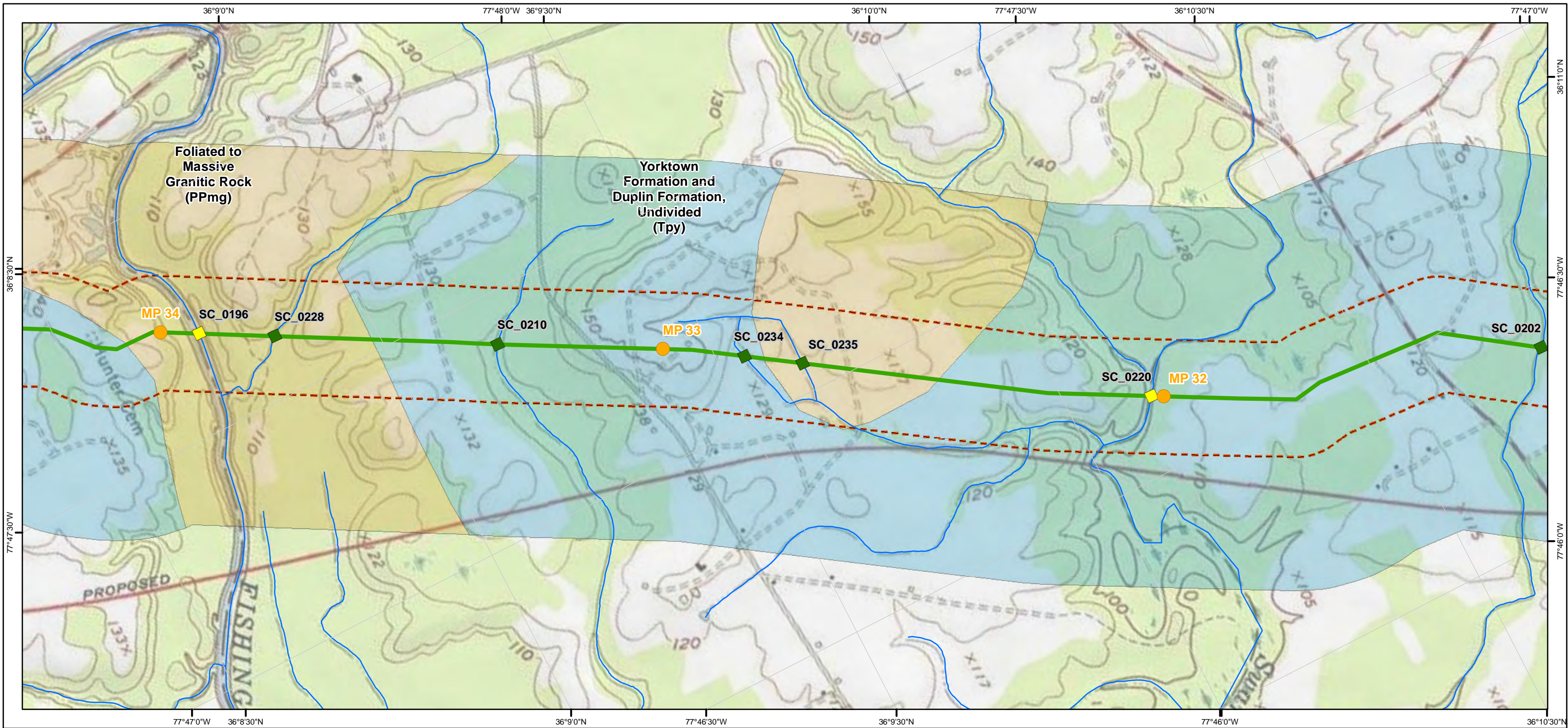


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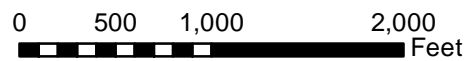


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 136 of 216

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**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

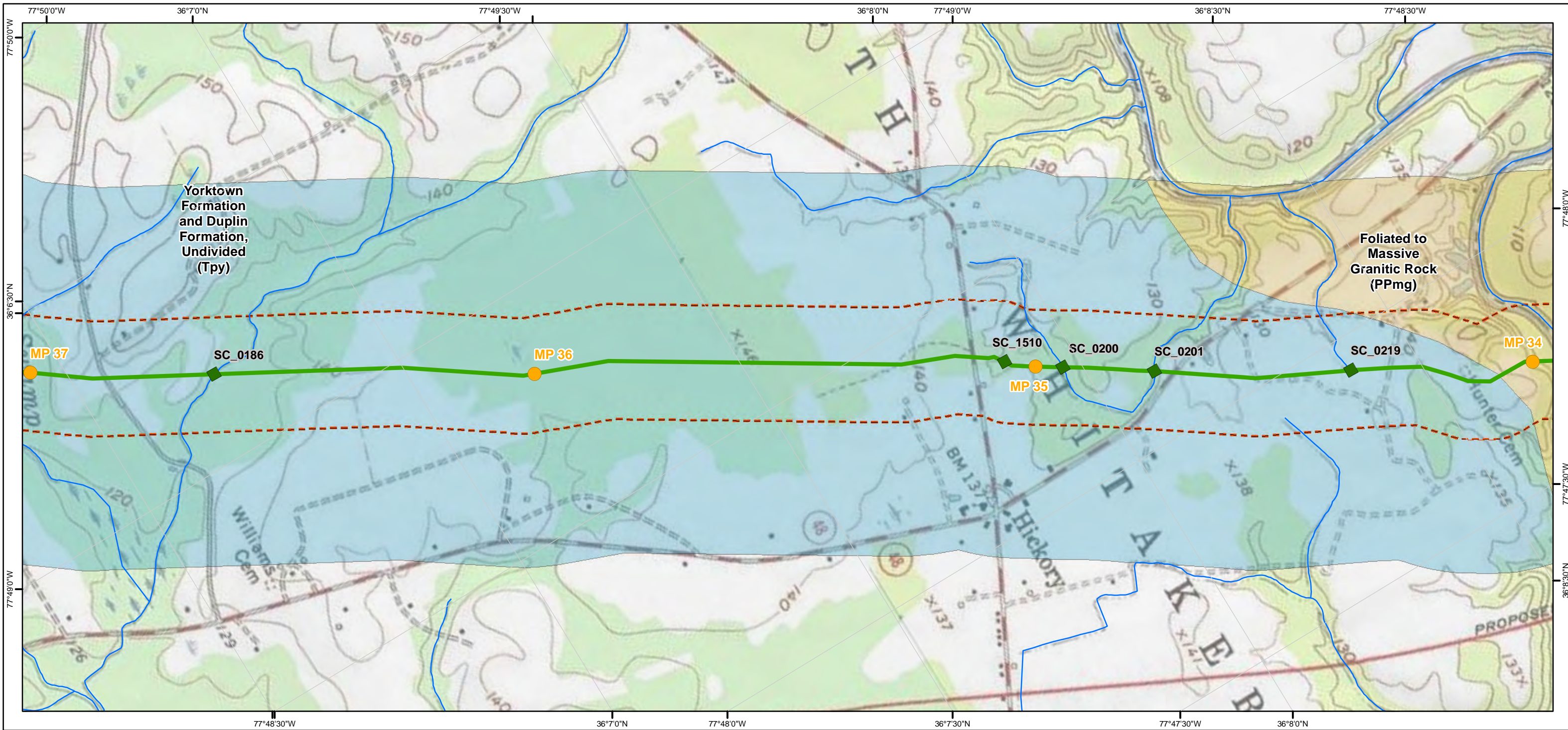
Revision	Date	Created By	Approved By
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**Dominion**  
**Geosyntec**  
 consultants  
**TESSE**  **ATIONS**

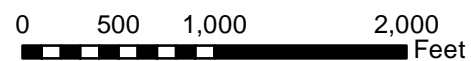


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 137 of 216

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Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
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**Notes:**

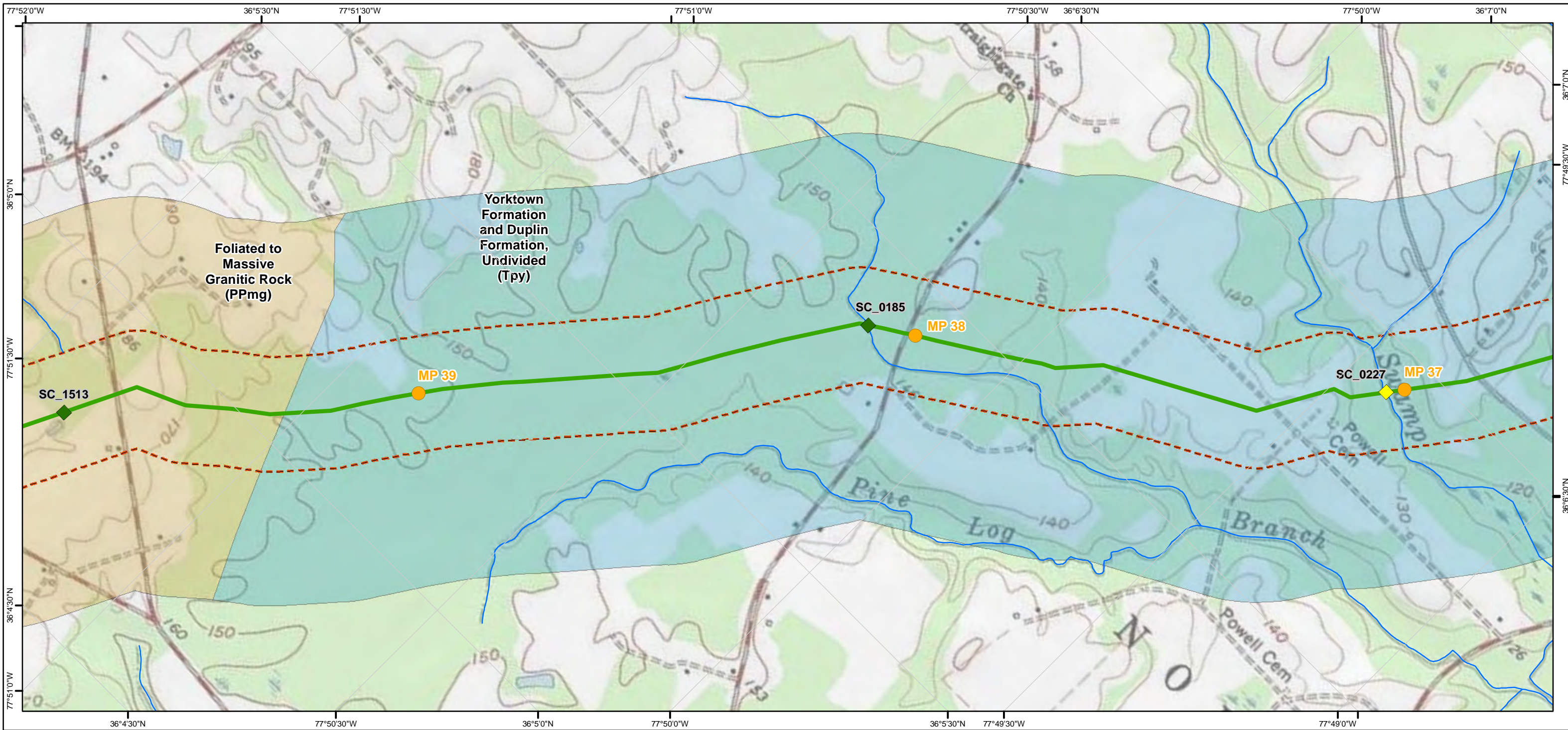
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Geosyntec

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TESSE  
CORPORATION

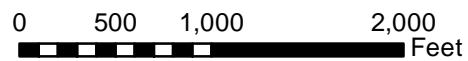


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 138 of 216

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### Document Information:

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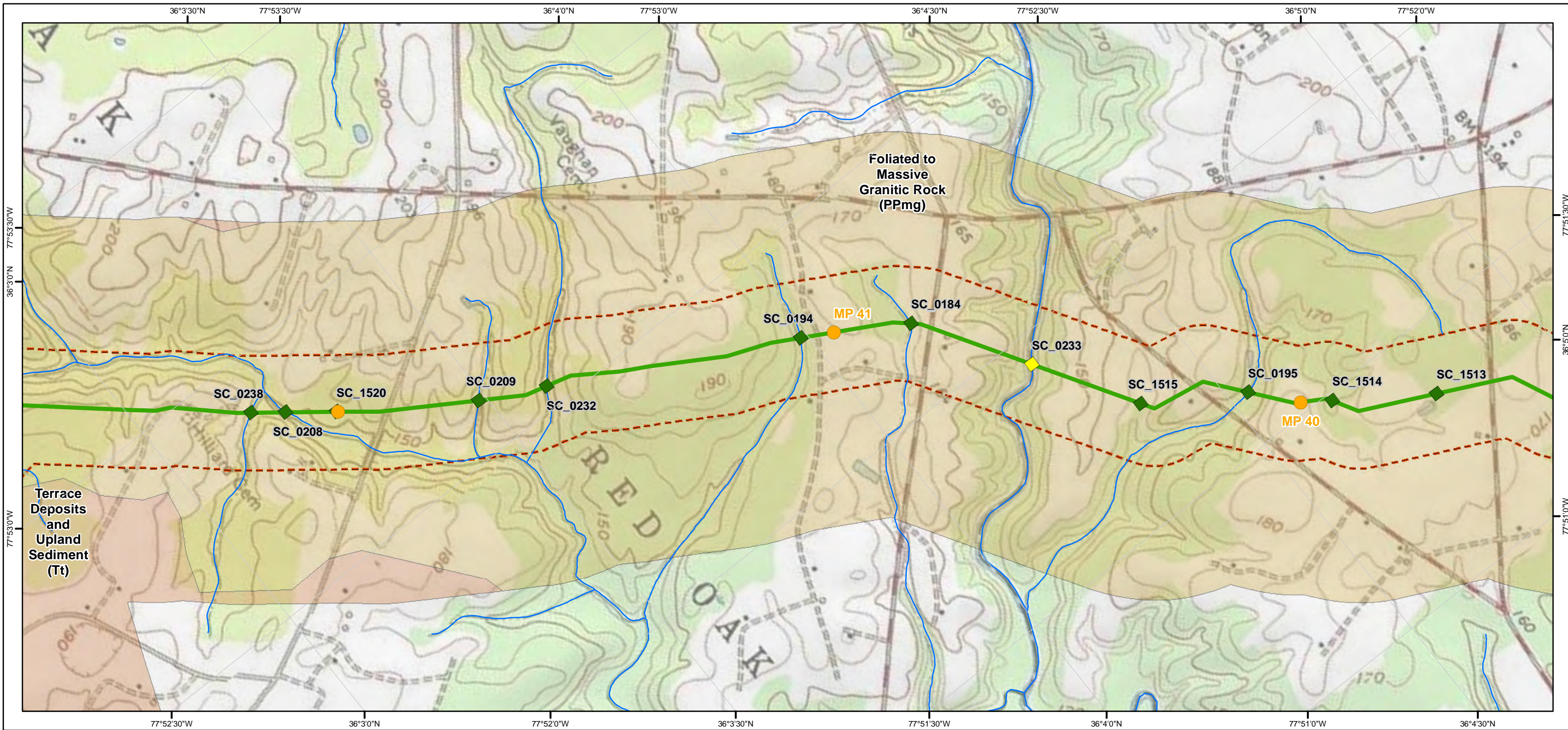
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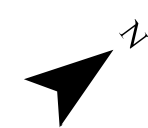
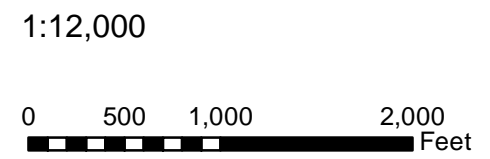
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**Geosyntec**  
 consultants  
**TESSE**  **ATIONS**



- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 139 of 216



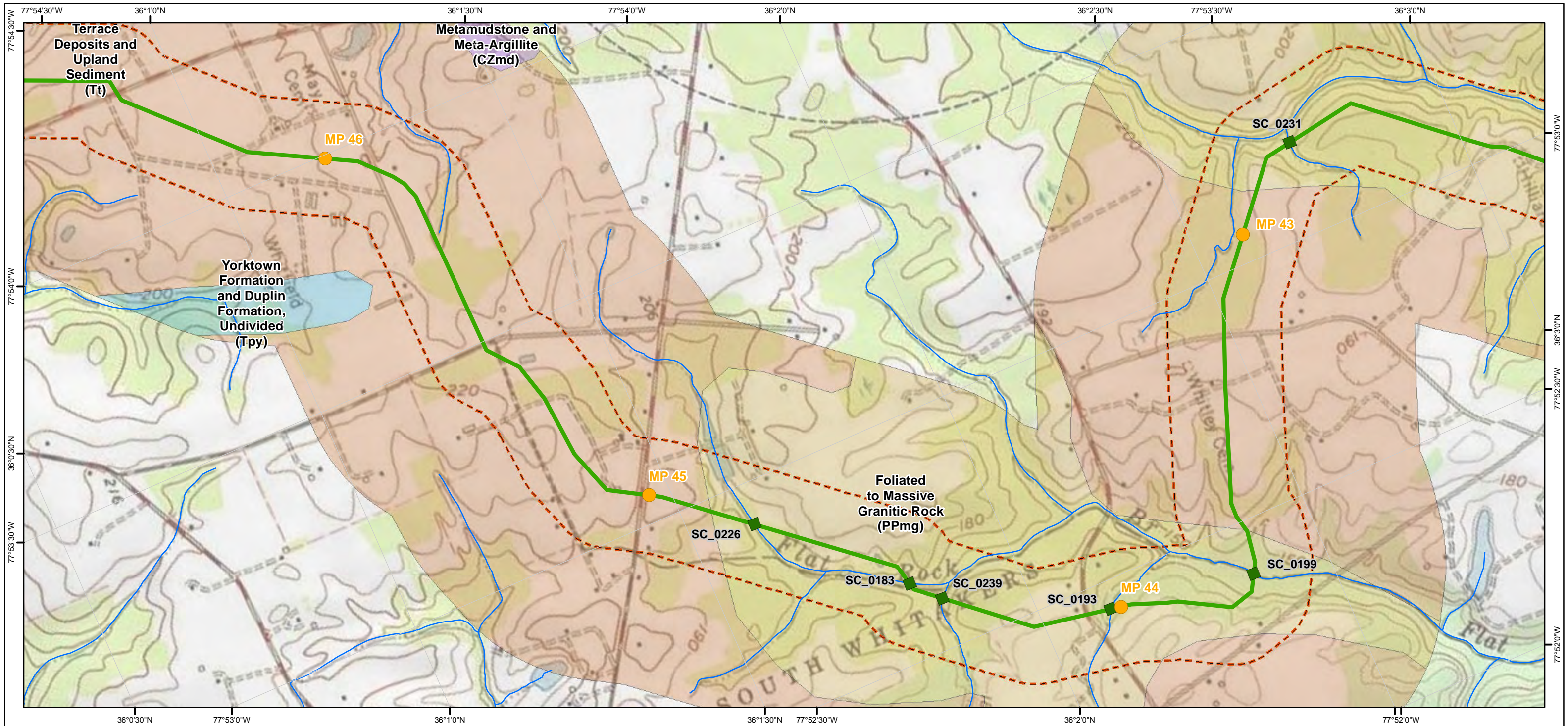
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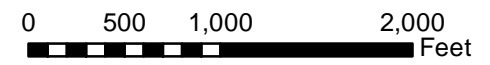


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
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  - 30.01% - 40% (Moderately Steep)
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- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 140 of 216

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**Document Information:**

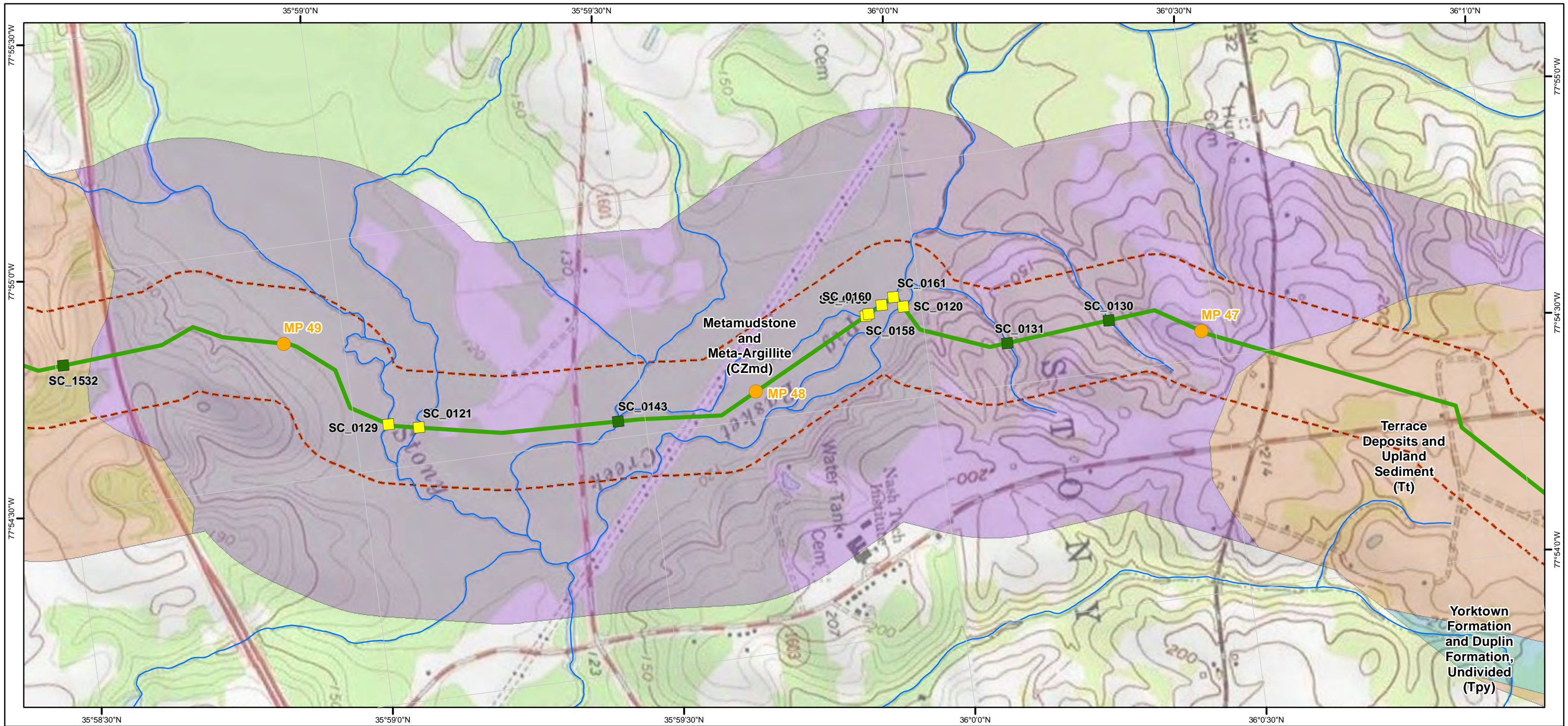
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**Dominion**  
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consultants

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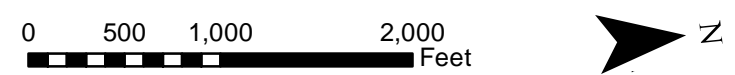


- Legend**
- Hydrotechnical Hazards**
- High (Red square)
  - Moderate (Yellow square)
  - Low (Green square)
- Potential Slope Instability Hazards**
- High (Red outline)
  - Moderate (Yellow outline)
  - Low (Green outline)
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep) (Red line)
  - 40.01% - 58% (Very Steep) (Orange line)
  - 30.01% - 40% (Moderately Steep) (Yellow line)
  - < 30% (Gentle) (Green line)
- Other Symbols:**
- Mileposts (Orange circle)
  - Boreholes (Blue circle)
  - Steep Slope Hazard Site (Purple circle)
  - Faults (Brown line)
  - NHD Streams (Blue line)
  - 600 ft buffer either side of centerline (Dashed orange line)

# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 141 of 216

1:12,000



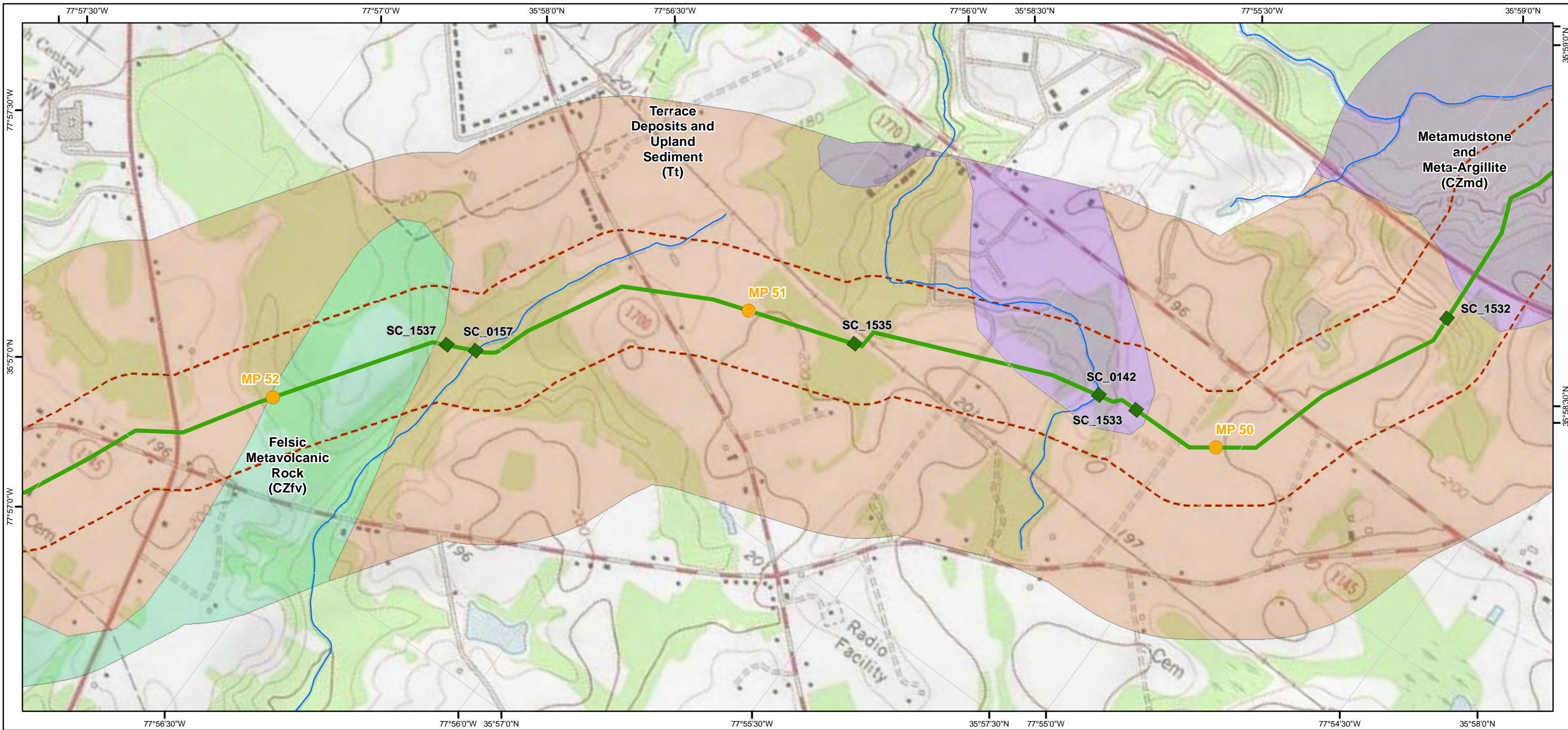
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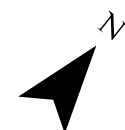
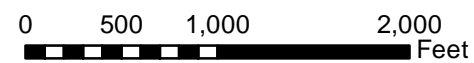


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
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  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

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Sheet 142 of 216

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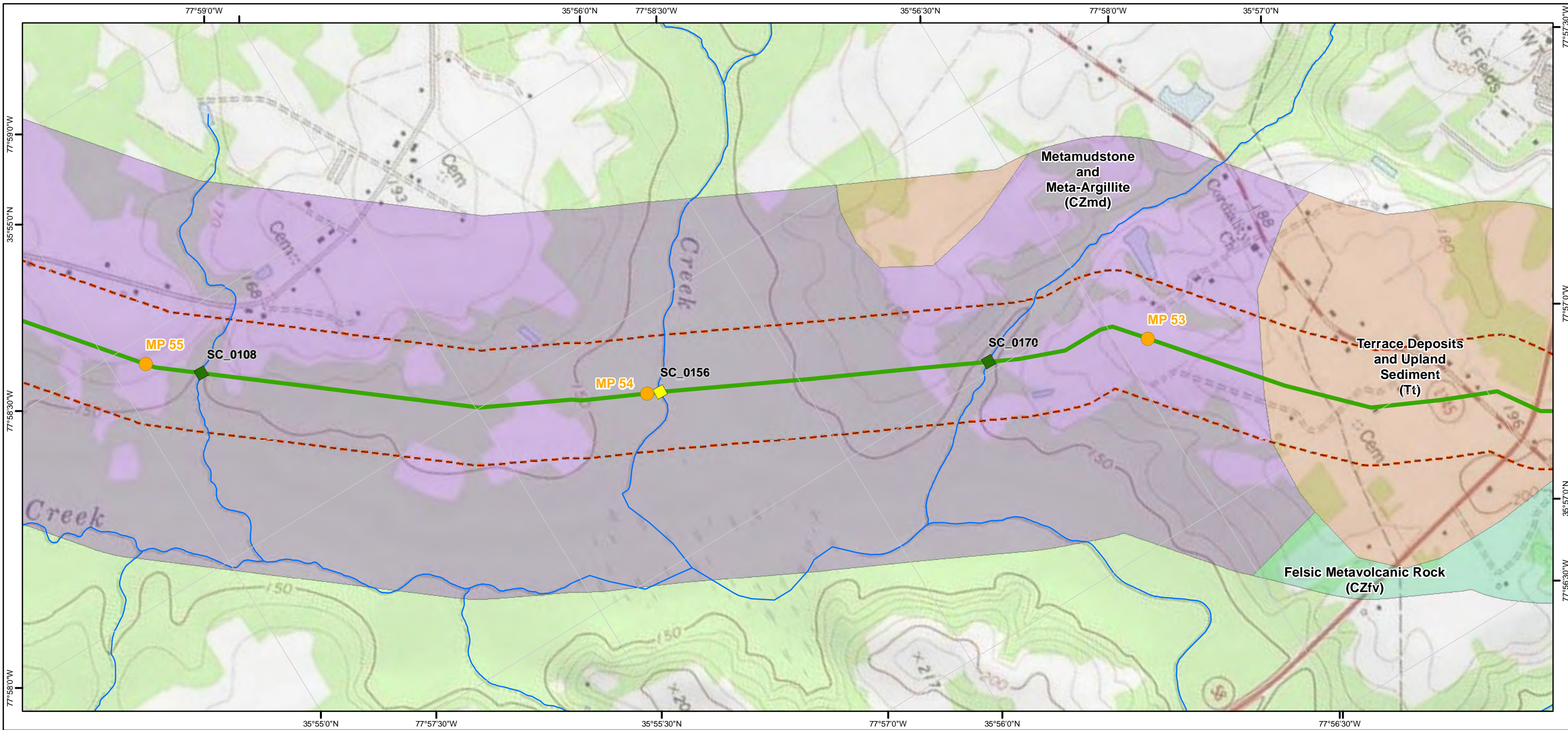


Dominion

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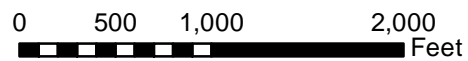


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 143 of 216

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**Document Information:**

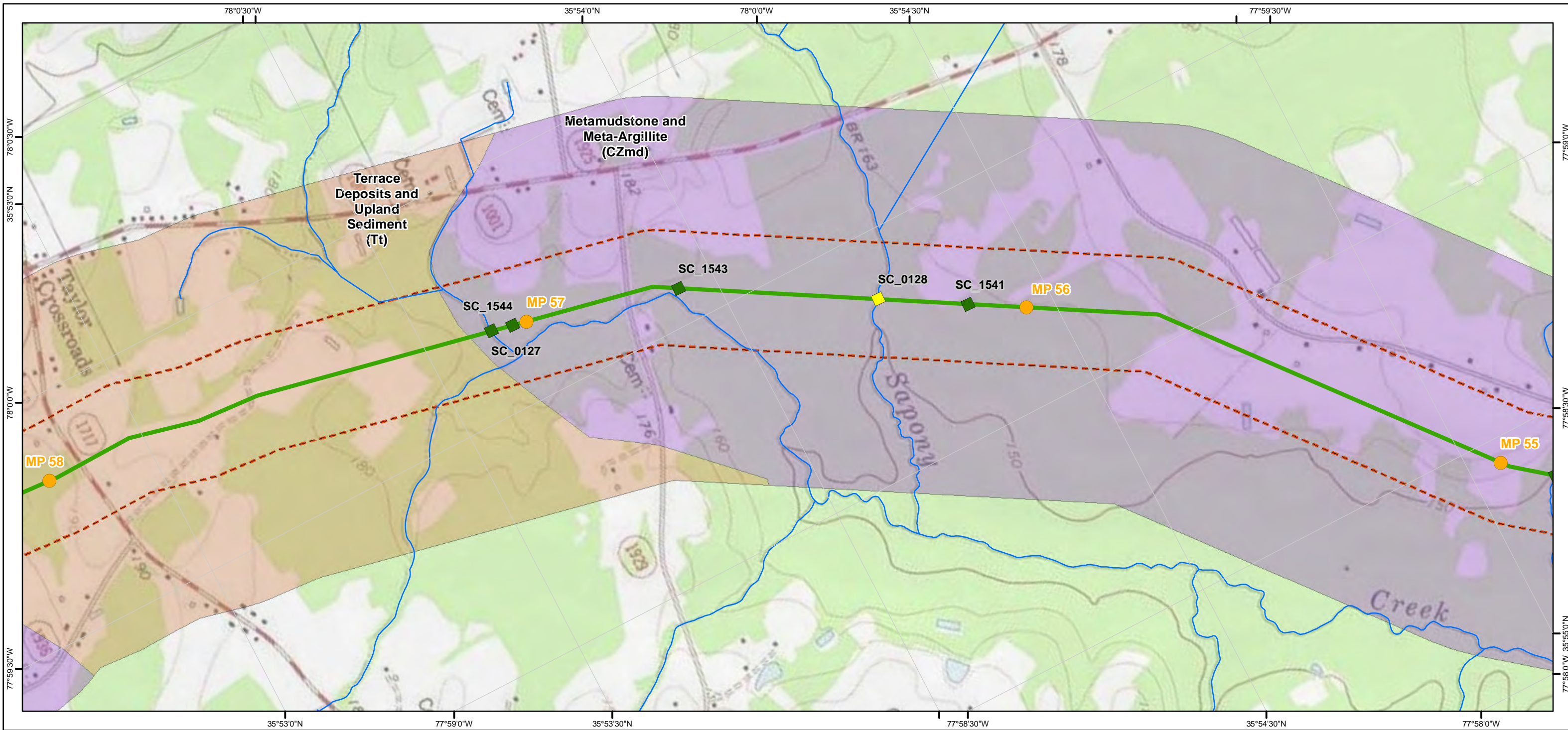
Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

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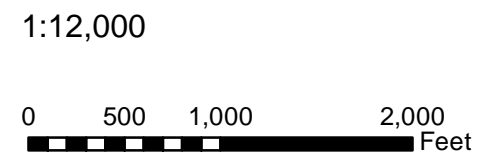




- Legend**
- Hydrotechnical Hazards**
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  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 144 of 216



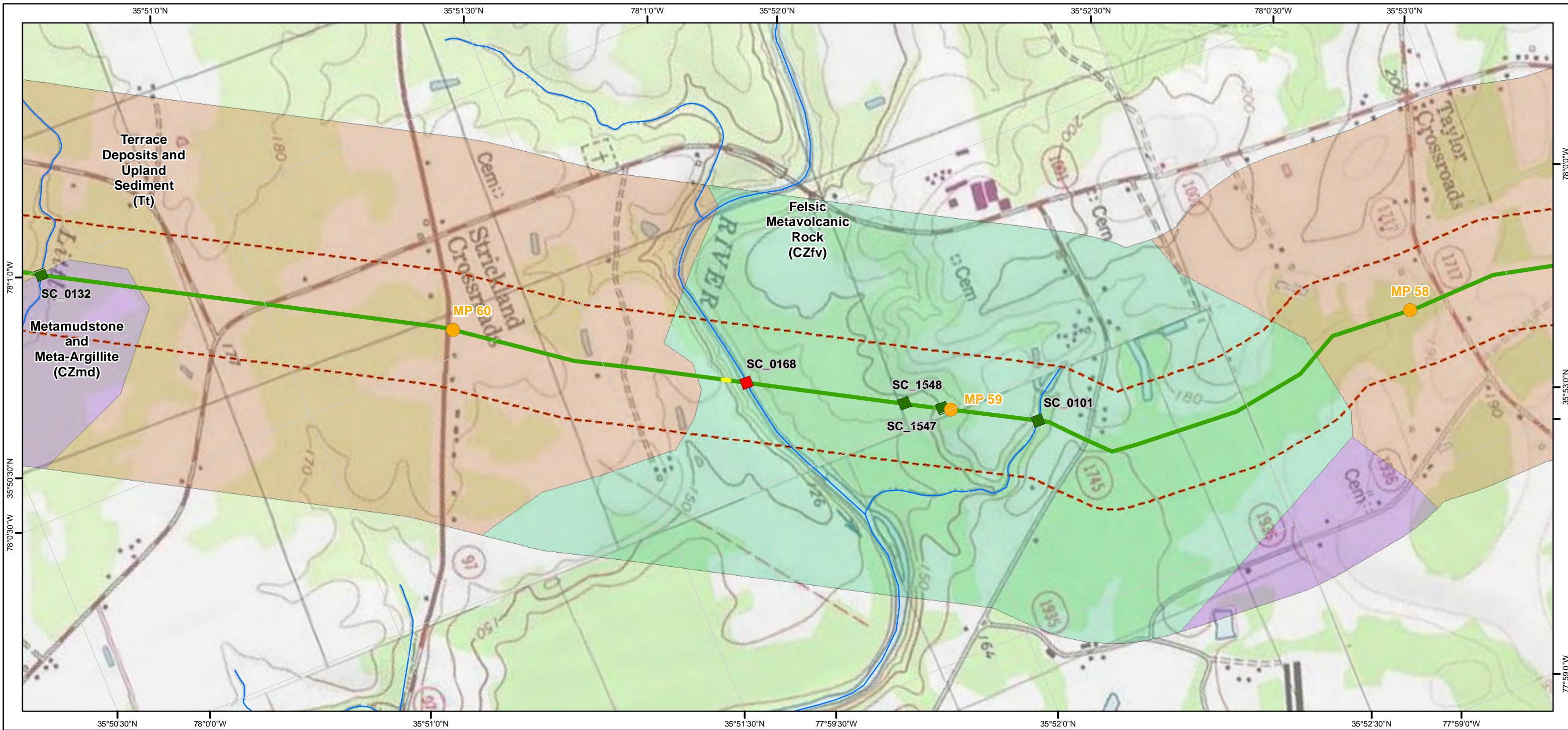
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Document No: DOM\_EC\_GEOL\_MA\_SER002

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**Geosyntec**  
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  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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0 500 1,000 2,000 Feet



### Document Information:

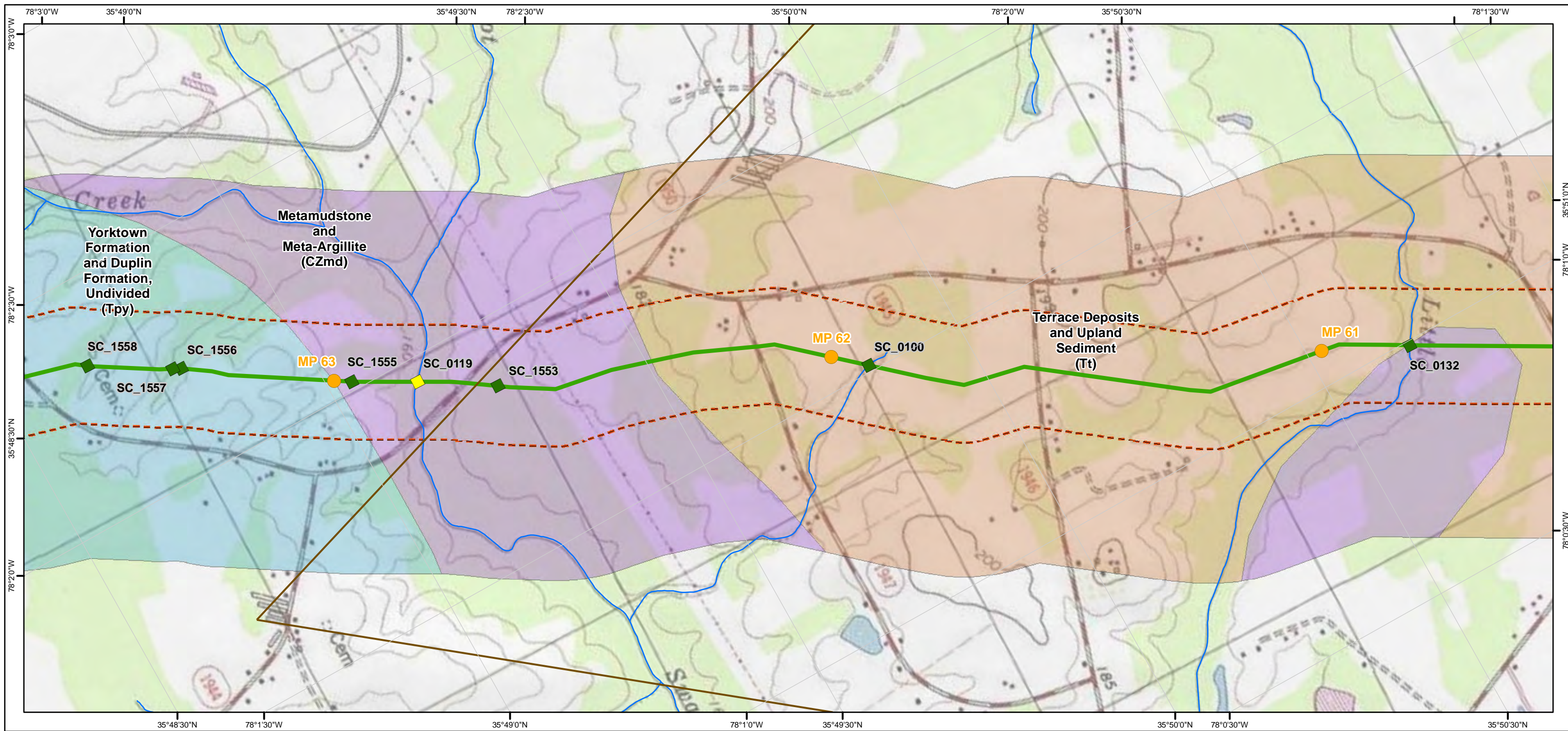
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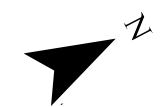
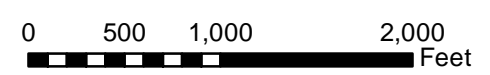


- Legend**
- Hydrotechnical Hazards**
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  - Low
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  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 146 of 216

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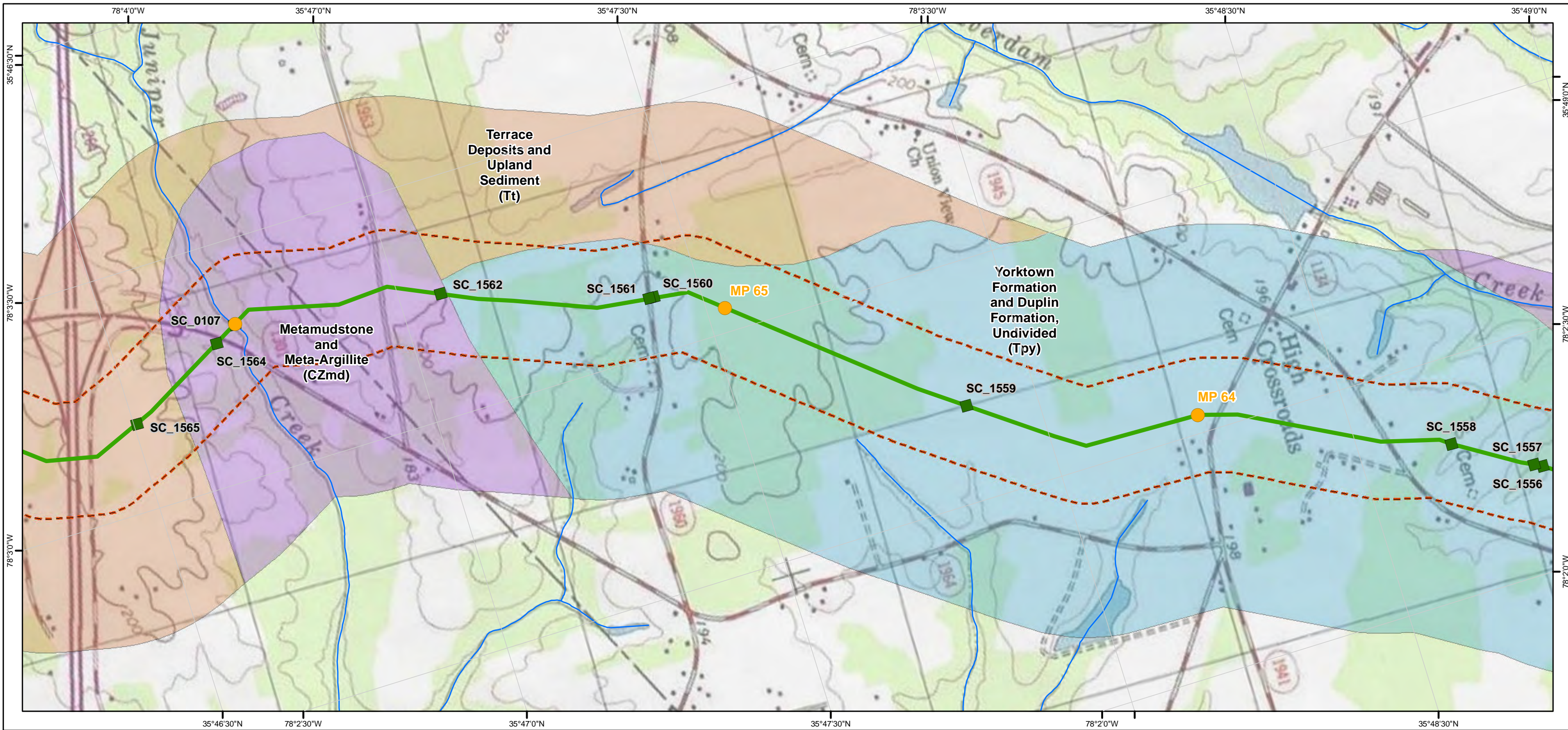
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**Geosyntec**  
consultants  
**TESSE CONSULTATIONS**

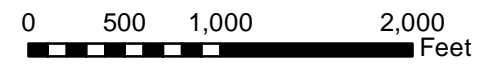


- Legend**
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  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 147 of 216

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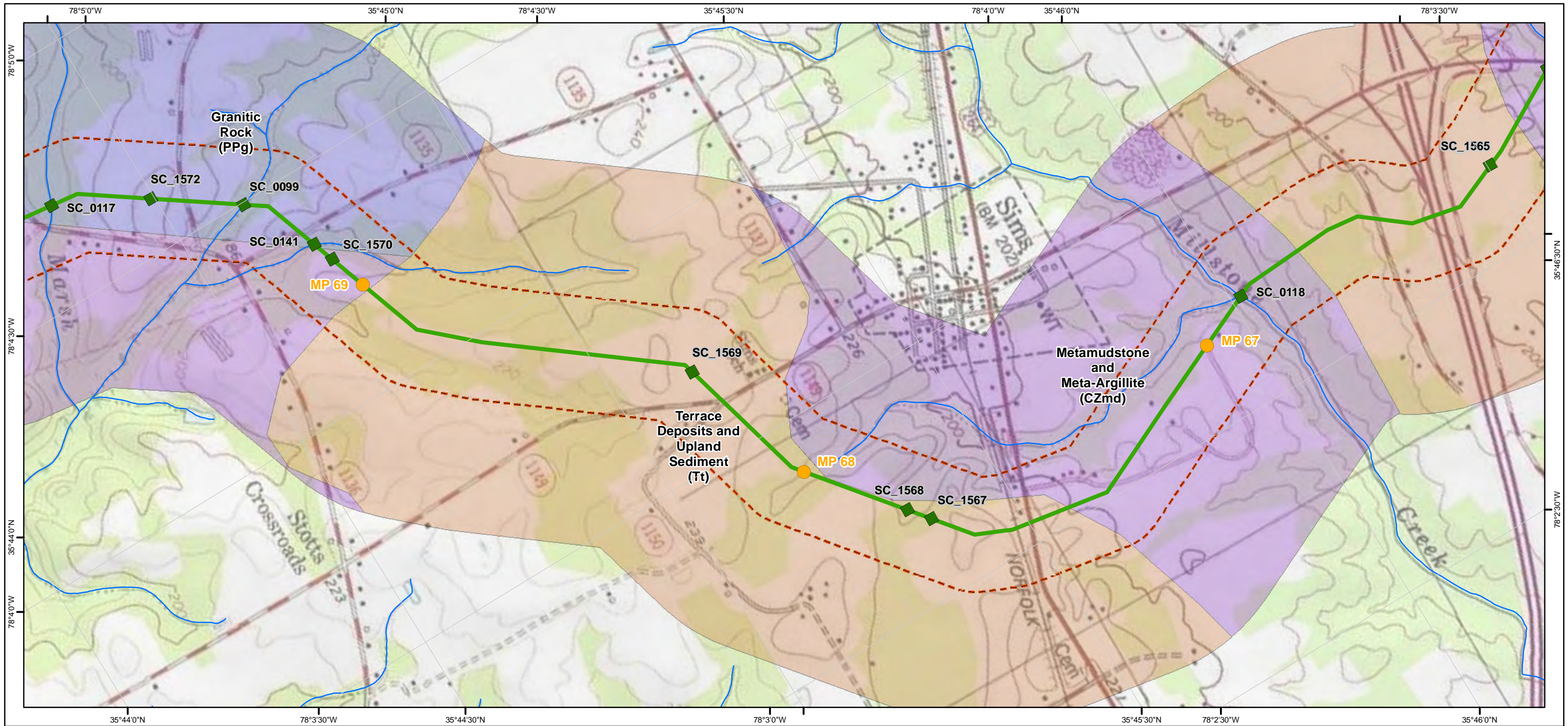
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**Geosyntec**  
consultants  
**TESSE CONSULTATIONS**



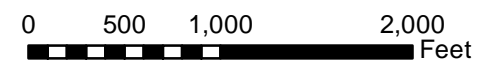


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- Hydrotechnical Hazards**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 148 of 216

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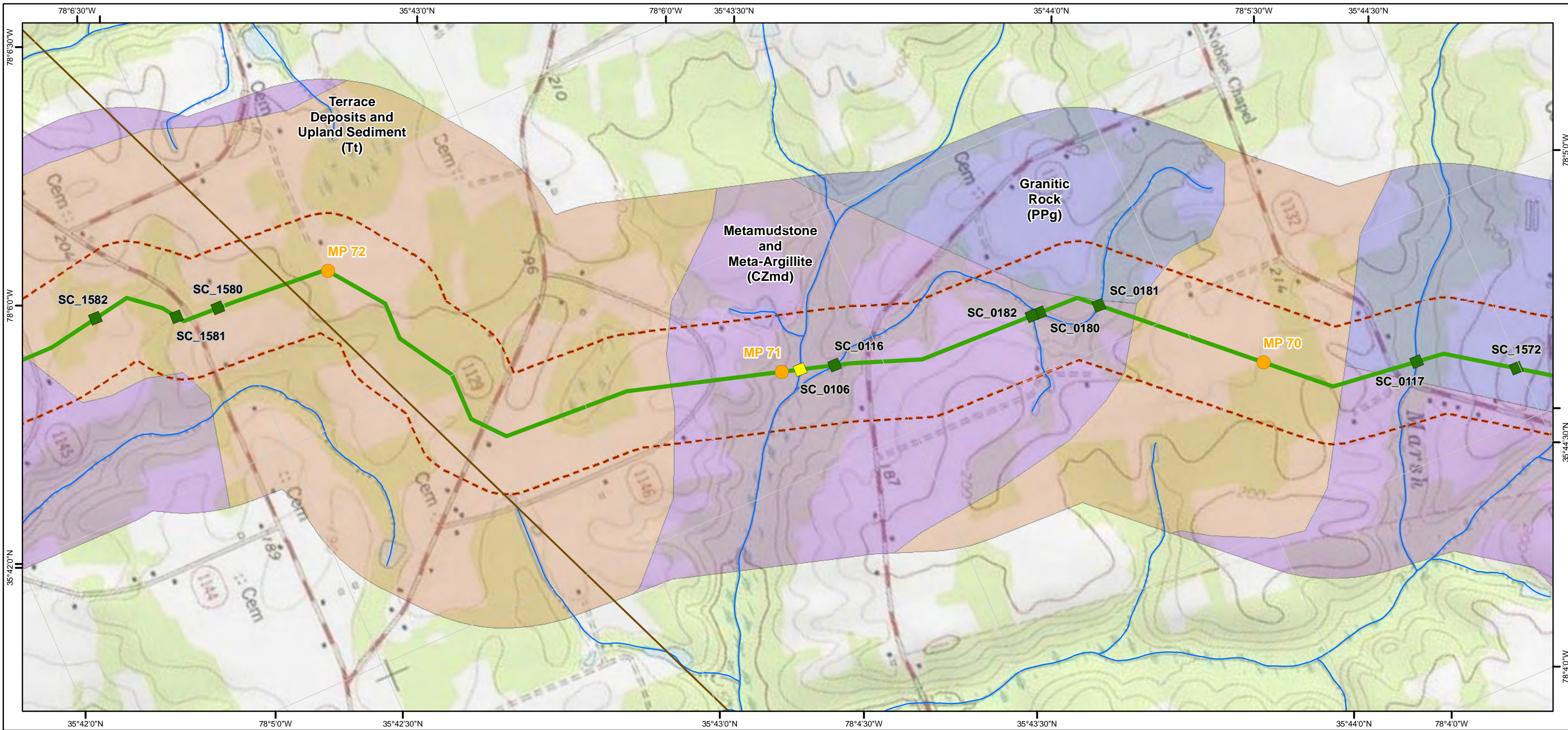
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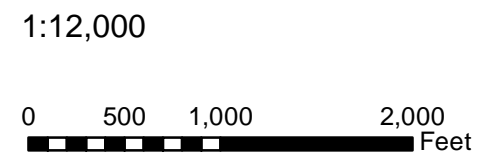




- Legend**
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  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 149 of 216



**Document Information:**

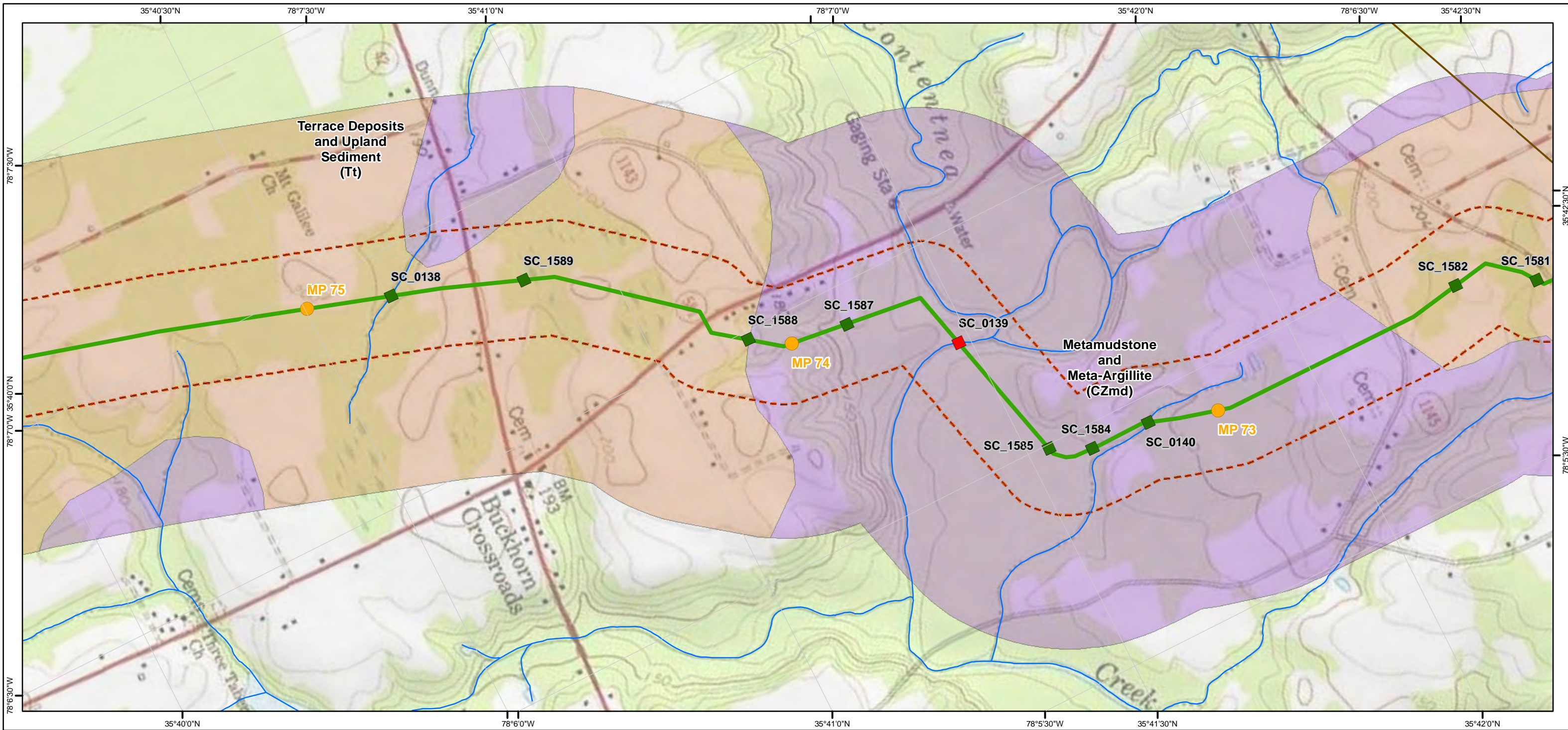
Document No: DOM\_EC\_GEOL\_MA\_SER002

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**Dominion**  
**Geosyntec**  
consultants  
**TESSE CONSULTATIONS**

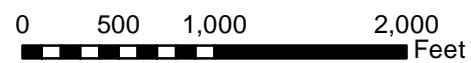


- Legend**
- Hydrotechnical Hazards**
- High
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- Potential Slope Instability Hazards**
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- Slope Inclination Along Route Centerline**
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- Other Symbols:**
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  - Faults
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  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 150 of 216

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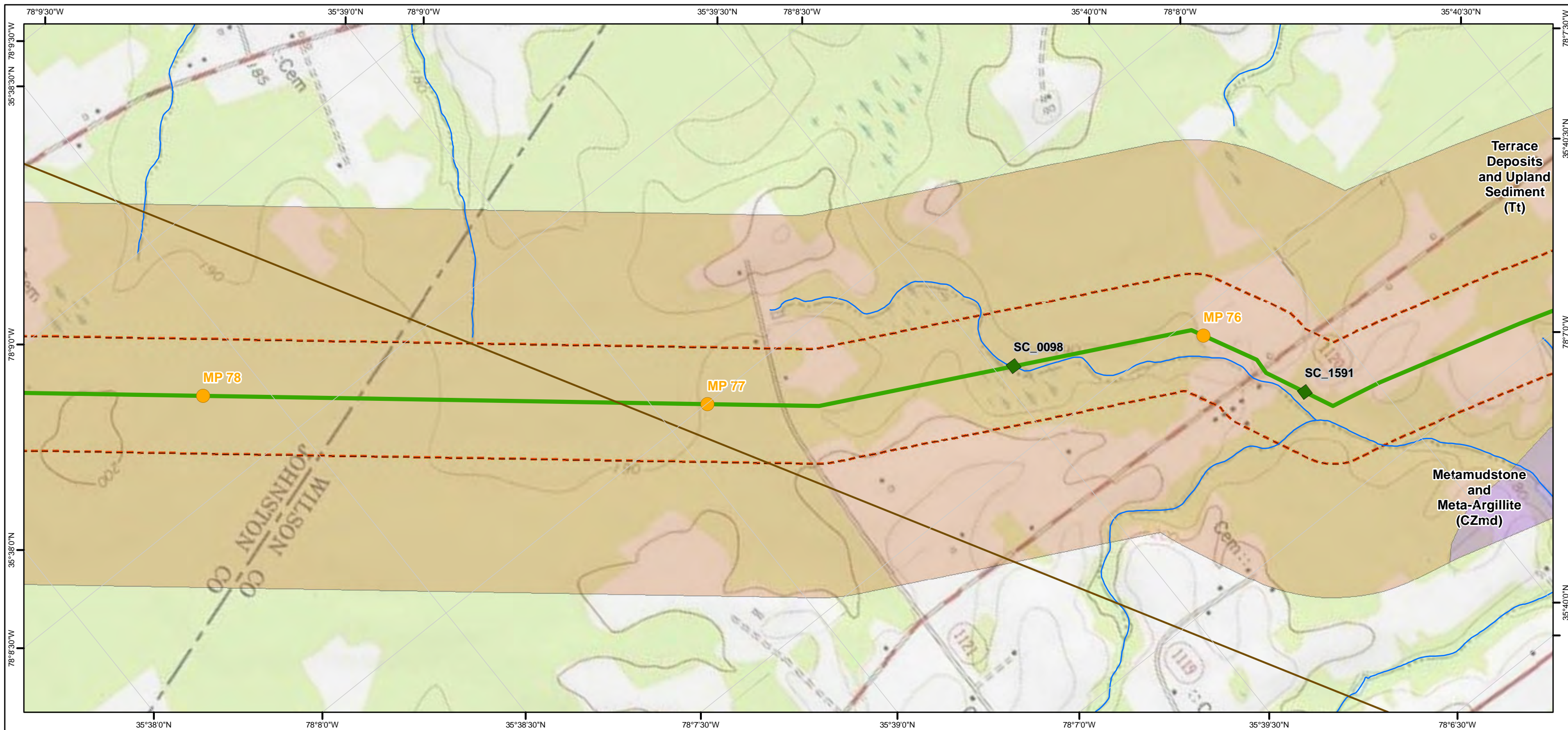


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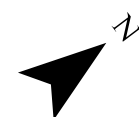
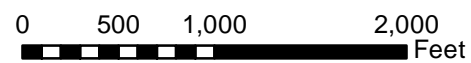


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Sheet 151 of 216

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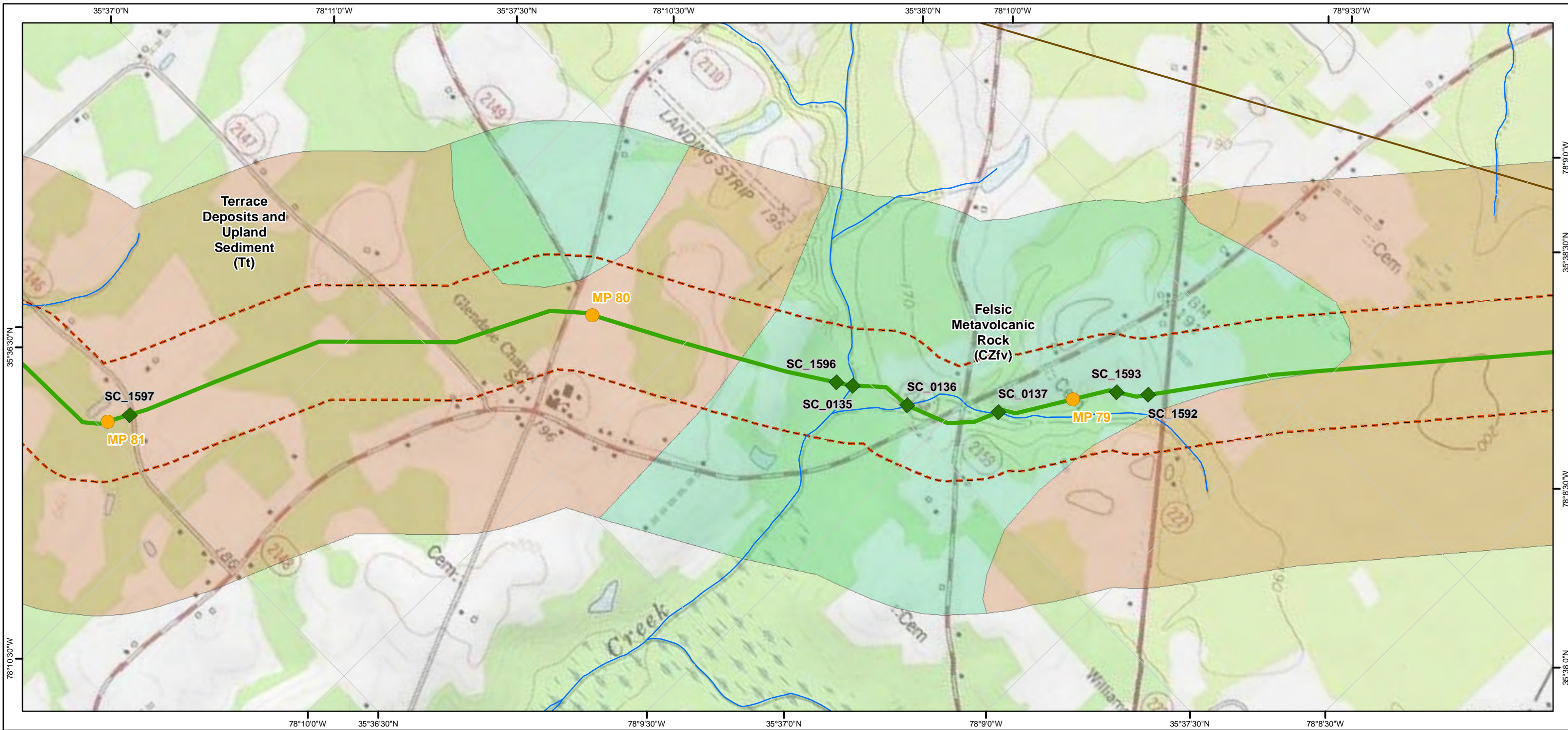
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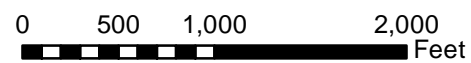


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 152 of 216

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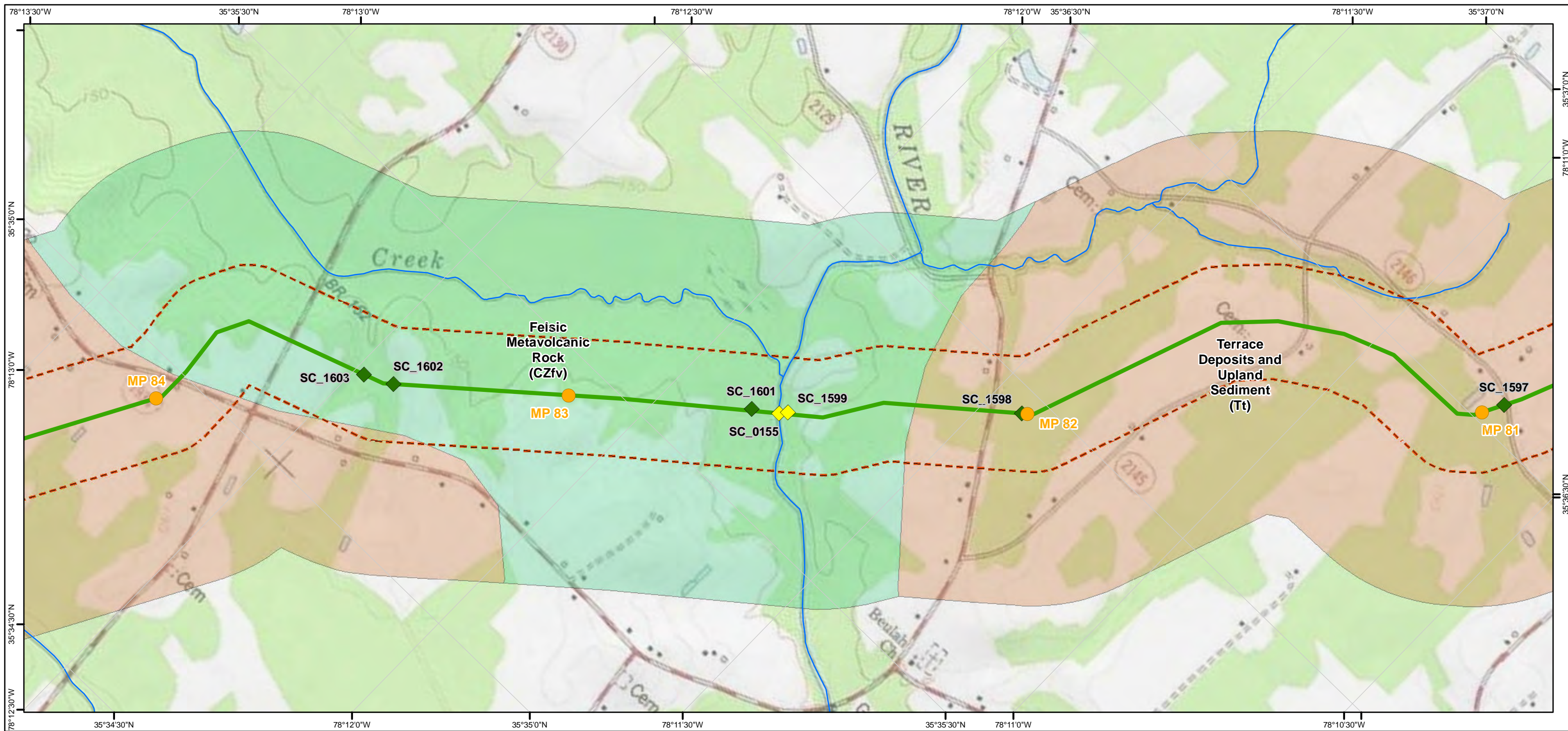
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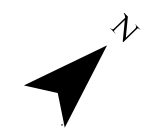
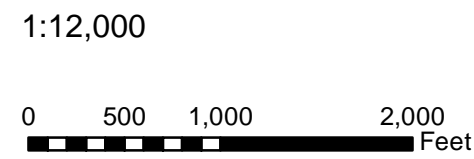
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consultants  
**TESSE**  **ATIONS**



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Sheet 153 of 216



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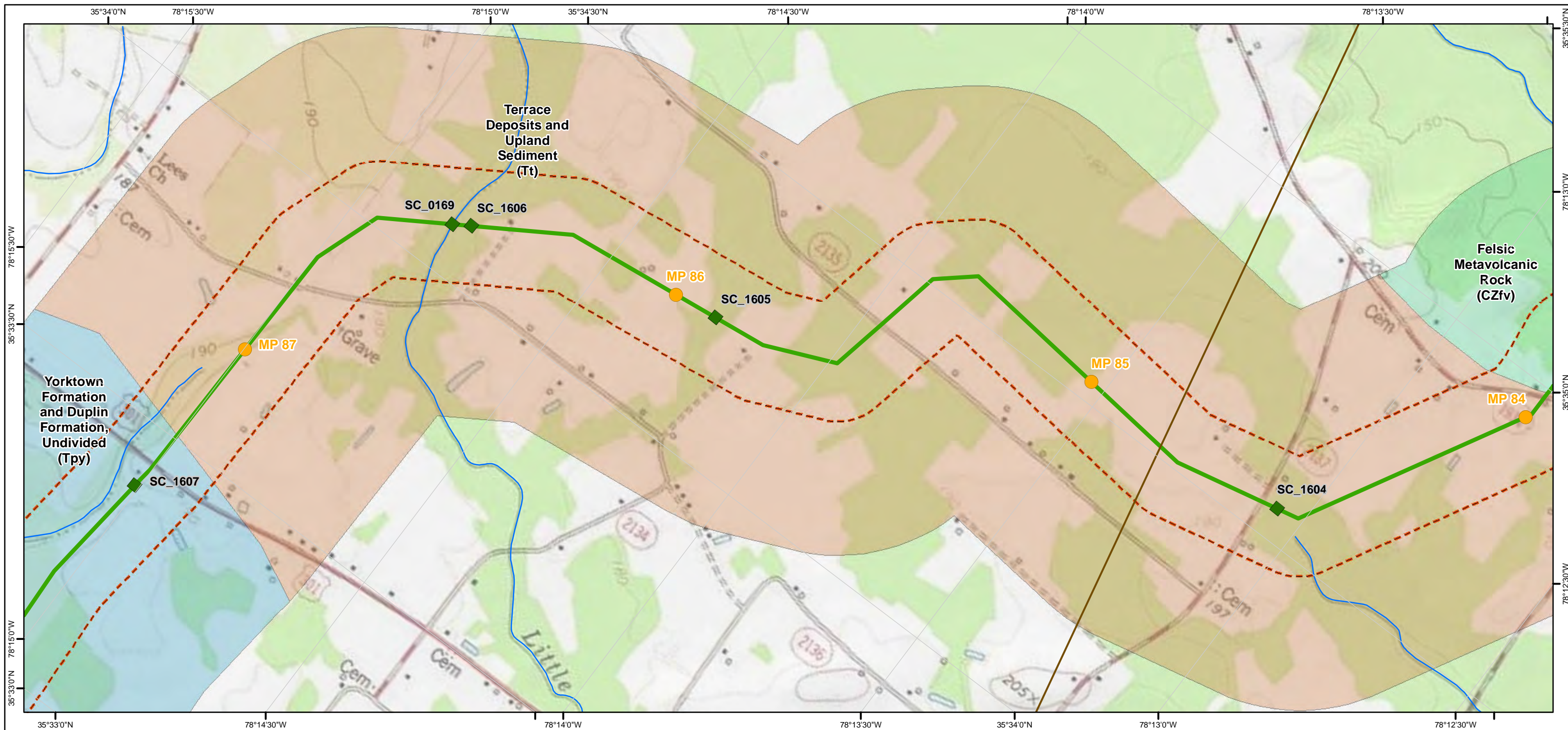
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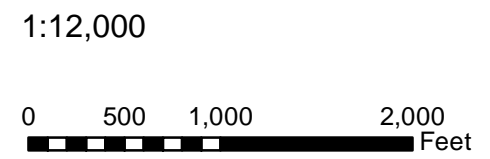
**TESSE** **CONSULTANTS**



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- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 154 of 216



**Document Information:**

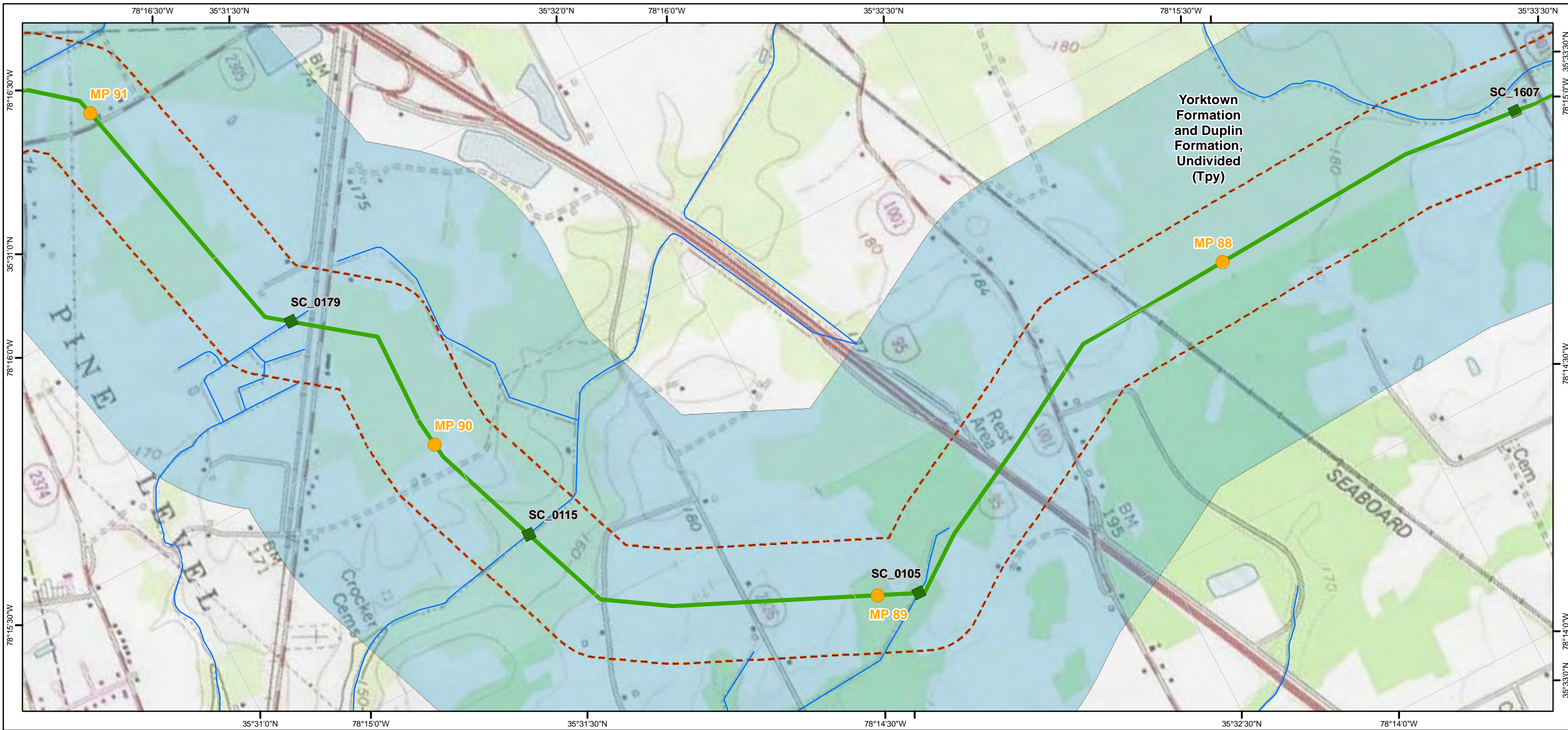
Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

**Notes:**

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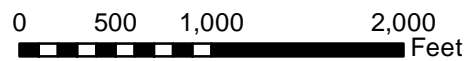


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 155 of 216

1:12,000



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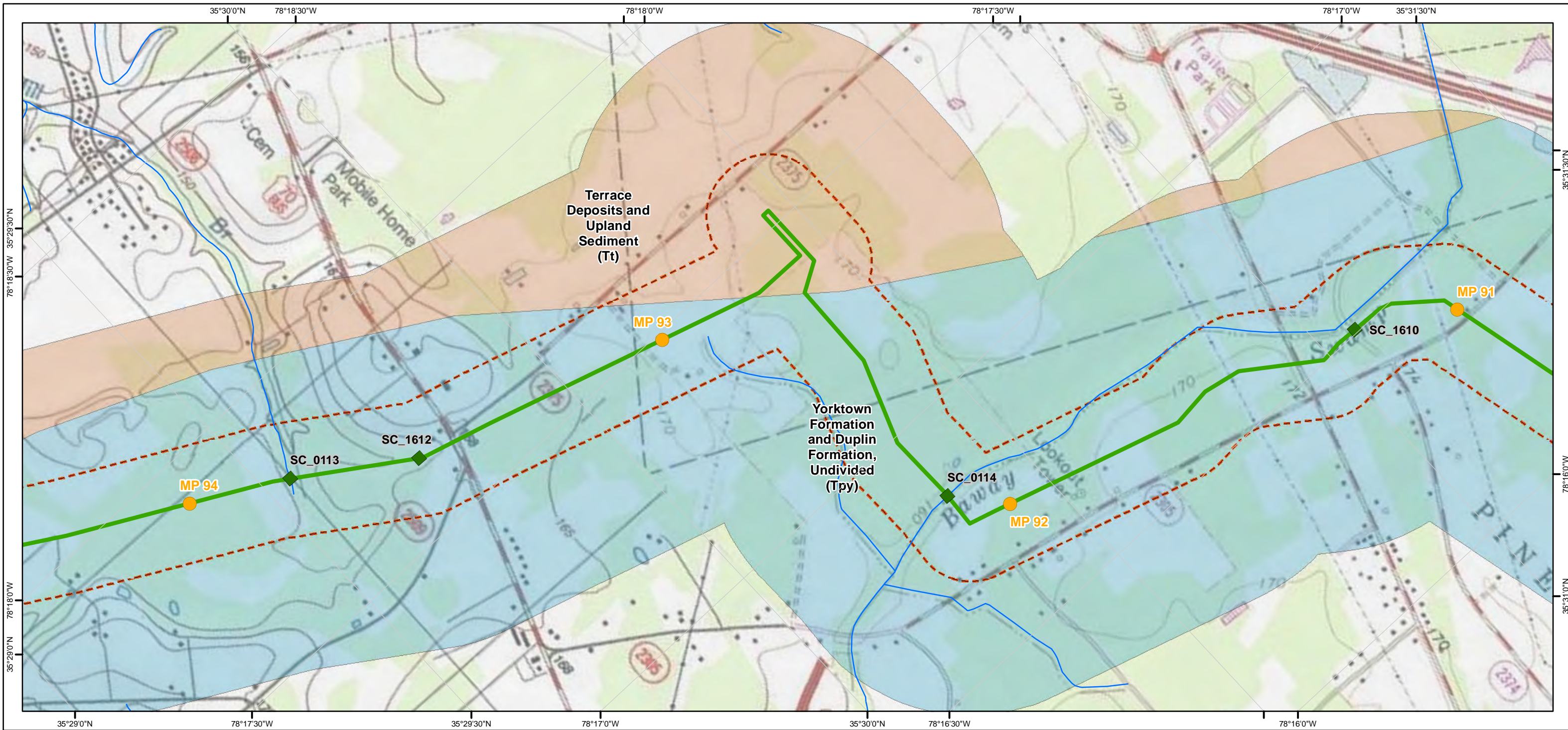
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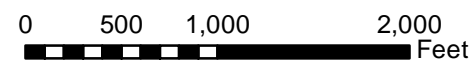


- Legend**
- Hydrotechnical Hazards**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 156 of 216

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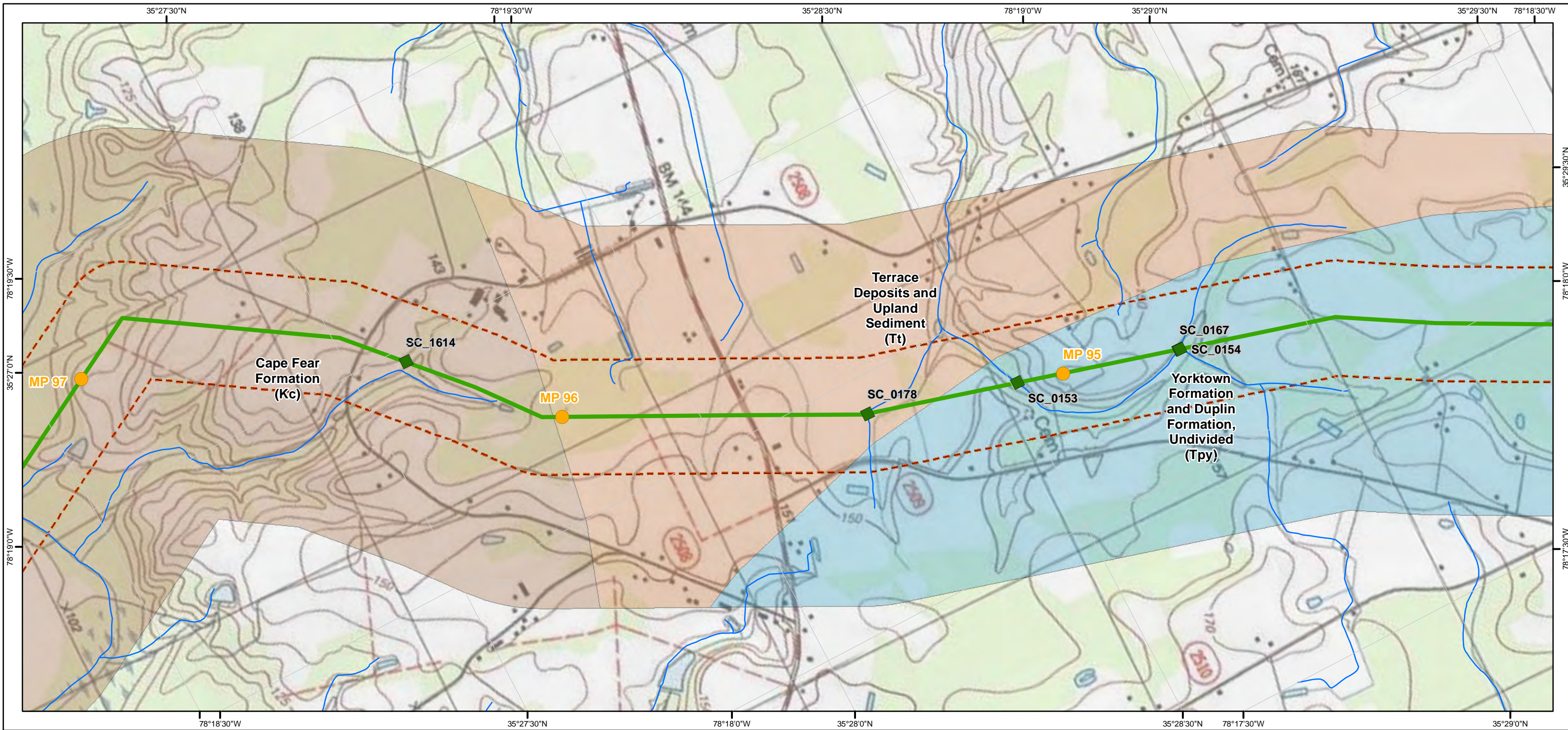
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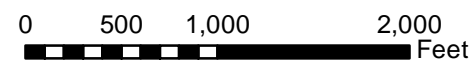


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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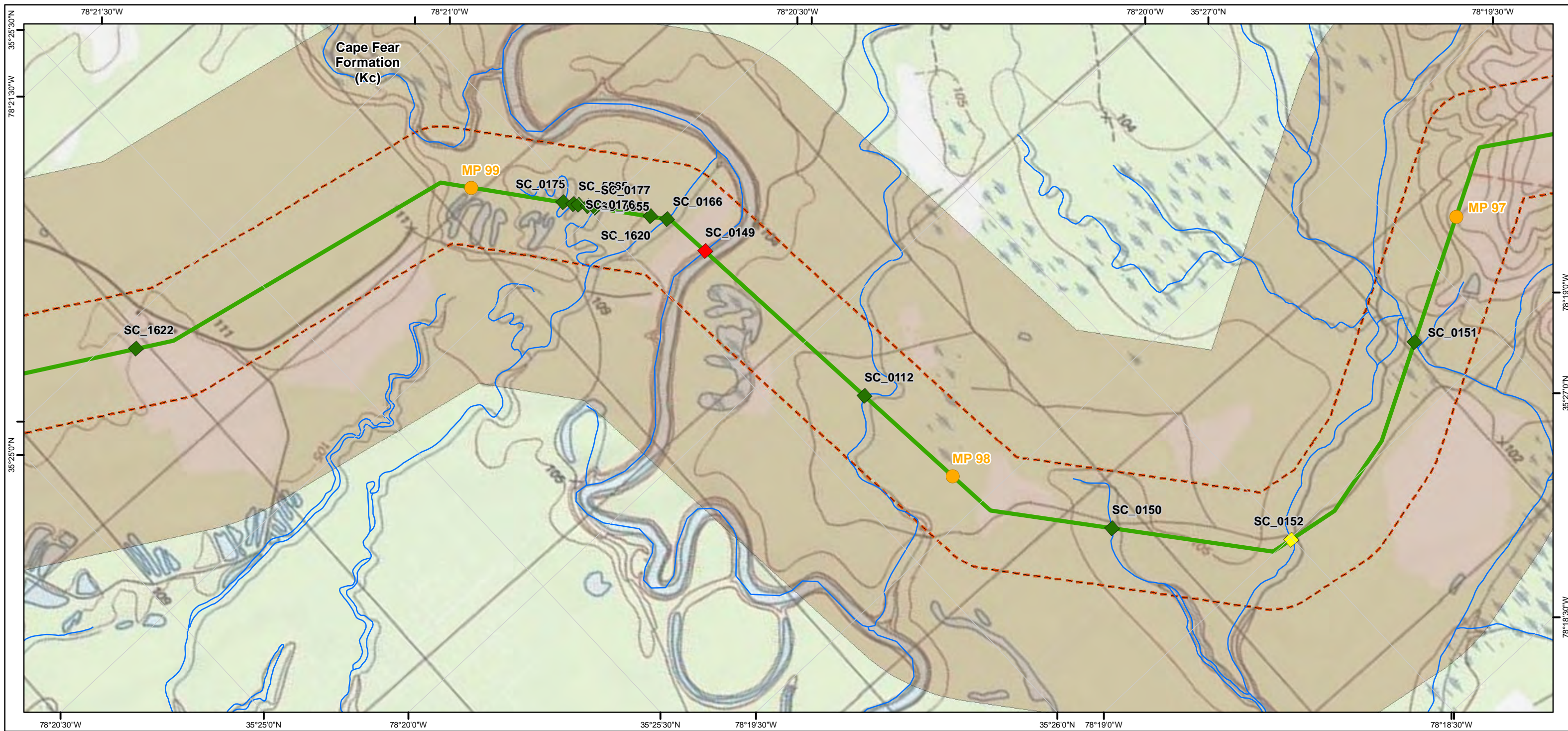
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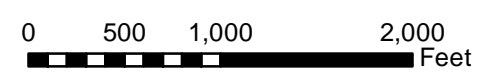


- Legend**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 158 of 216

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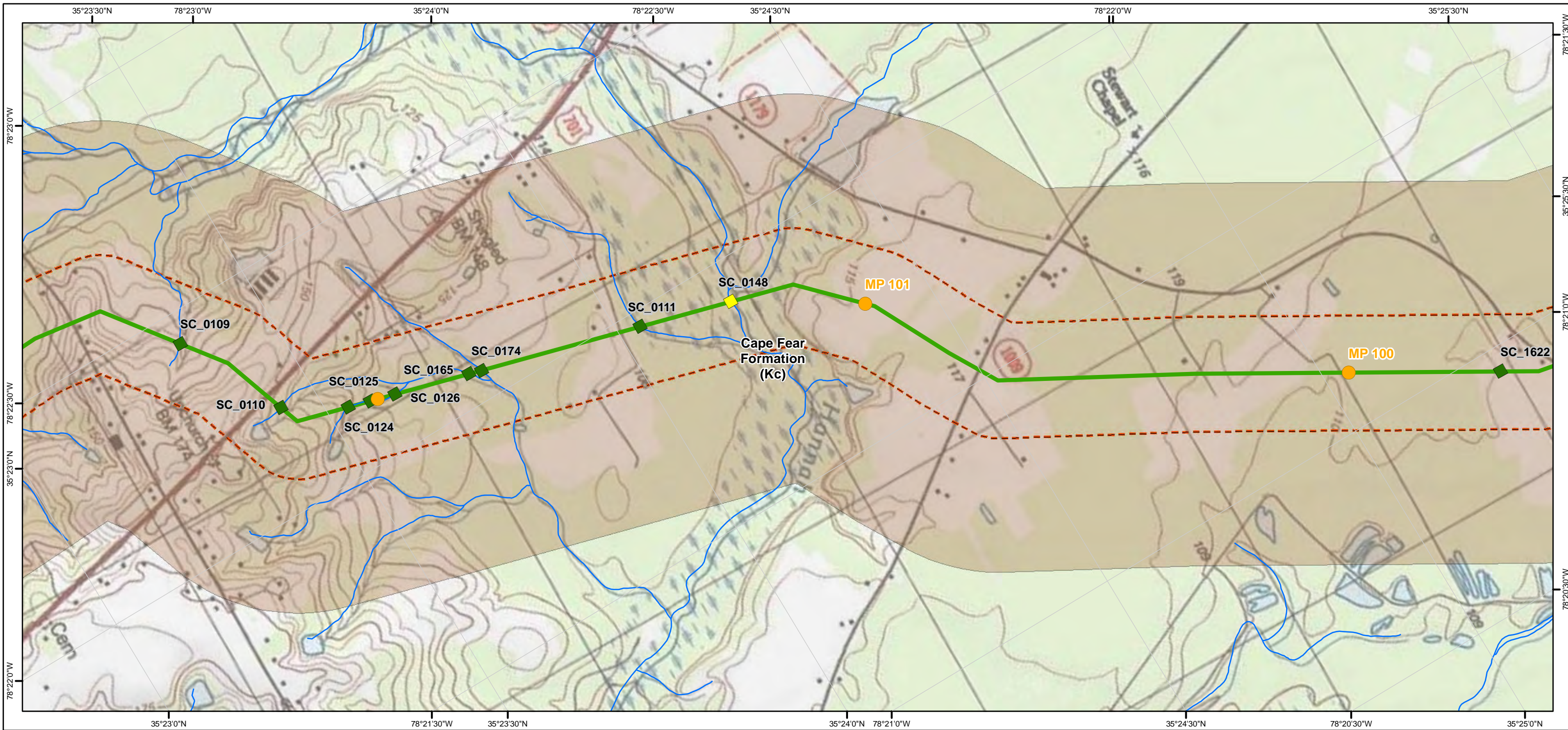
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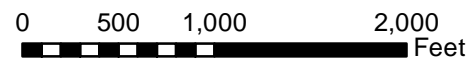


- Legend**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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### Document Information:

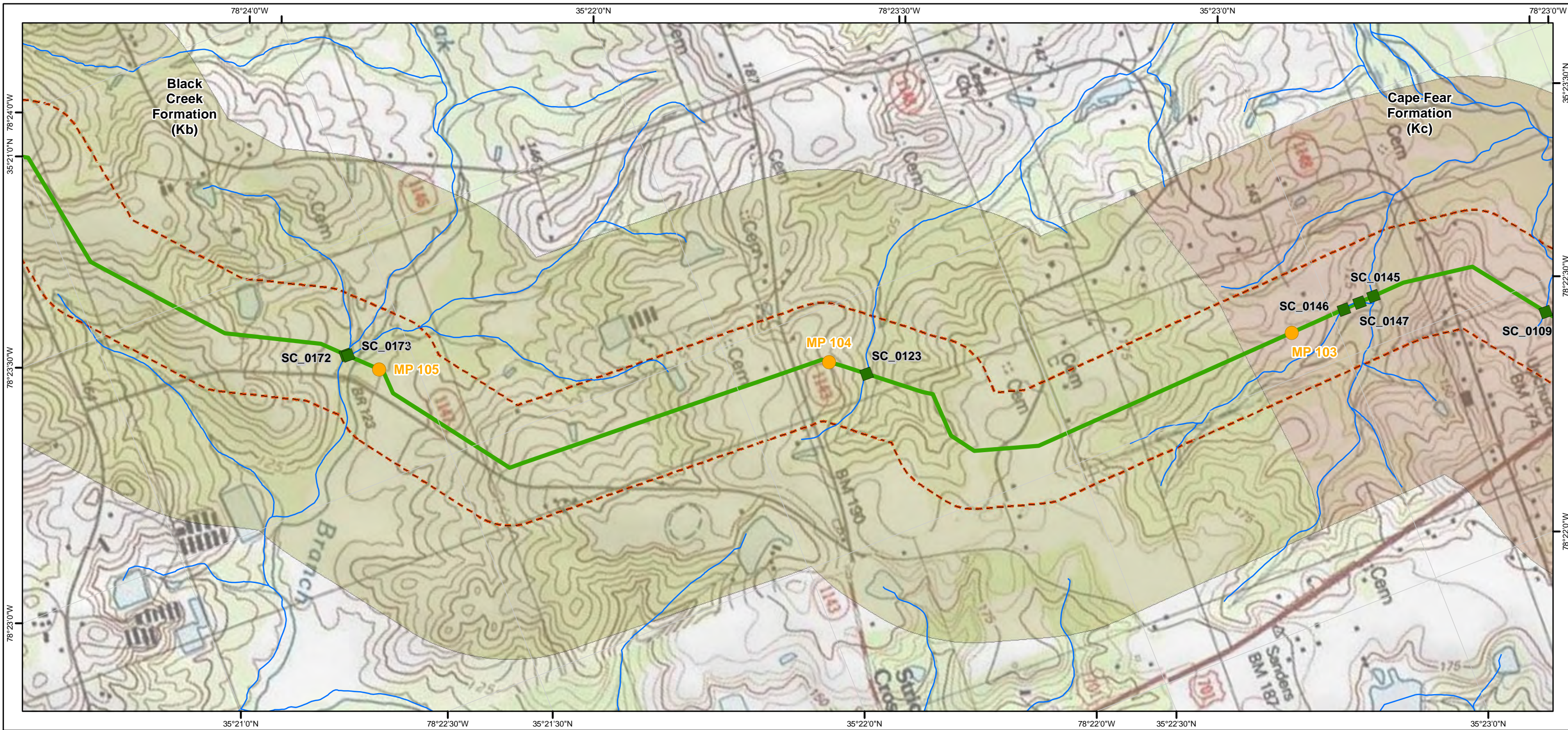
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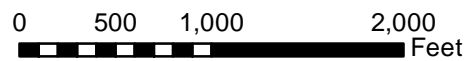


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Sheet 160 of 216

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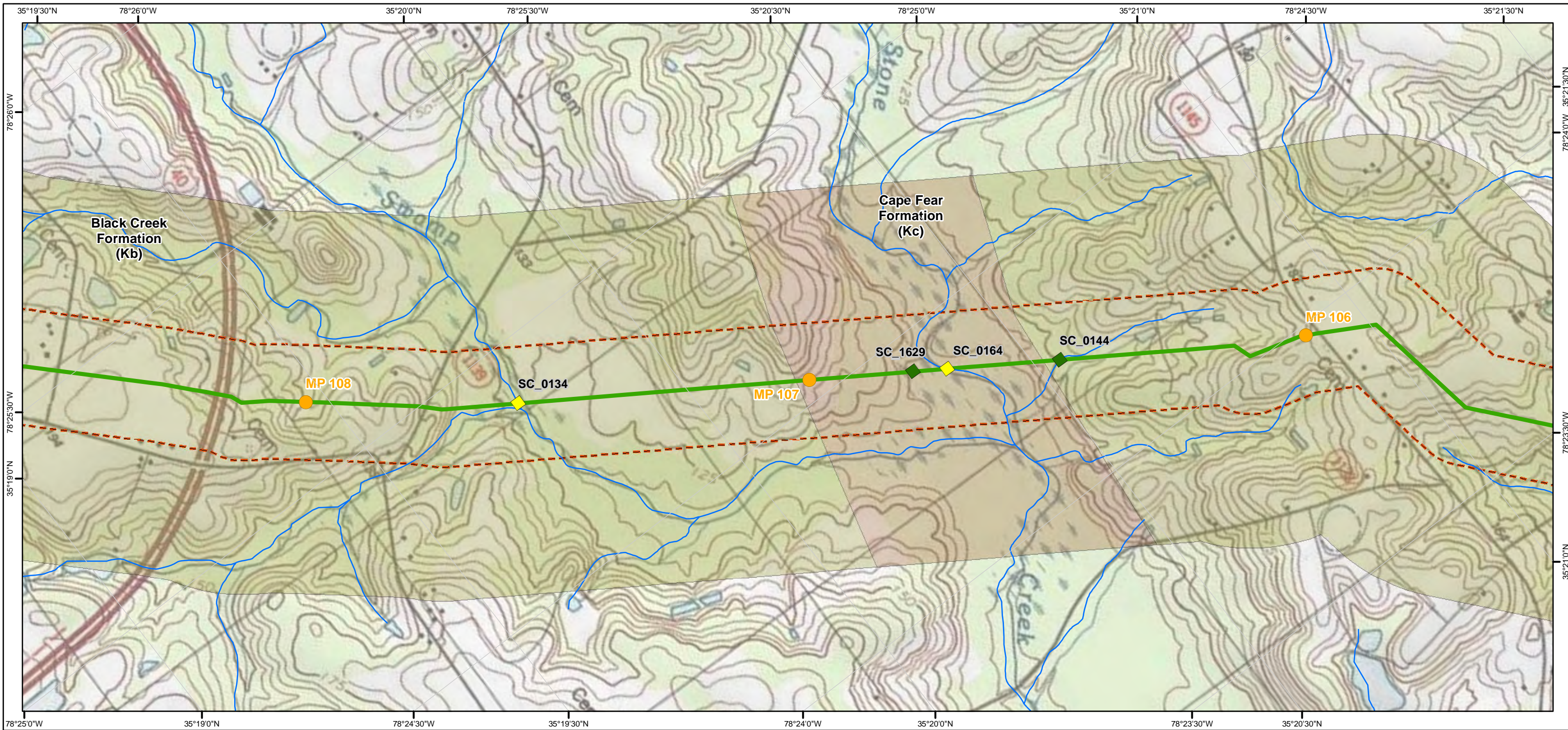
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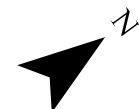
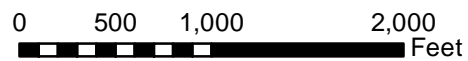


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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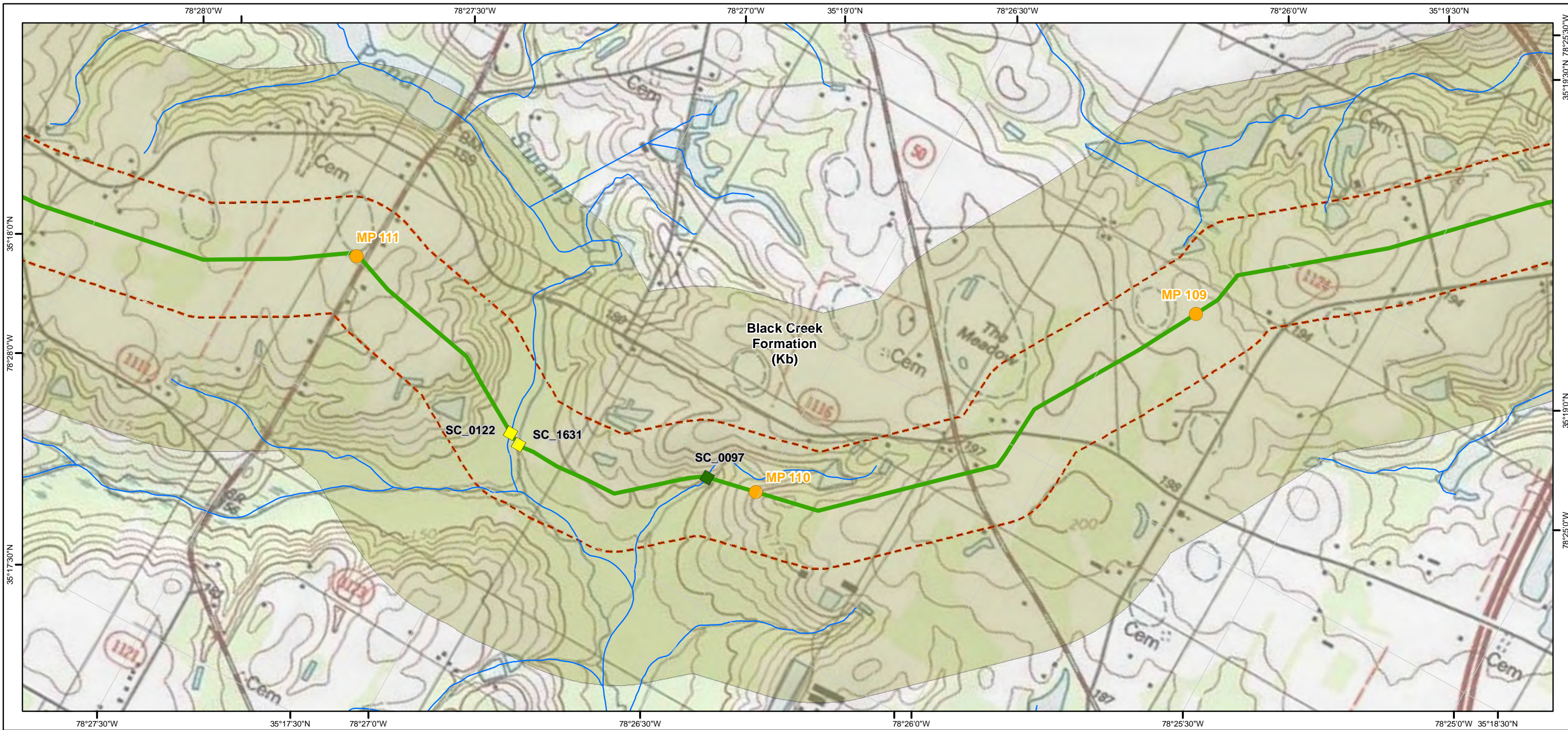


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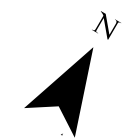
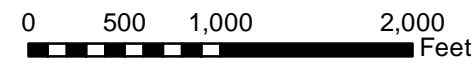


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 162 of 216

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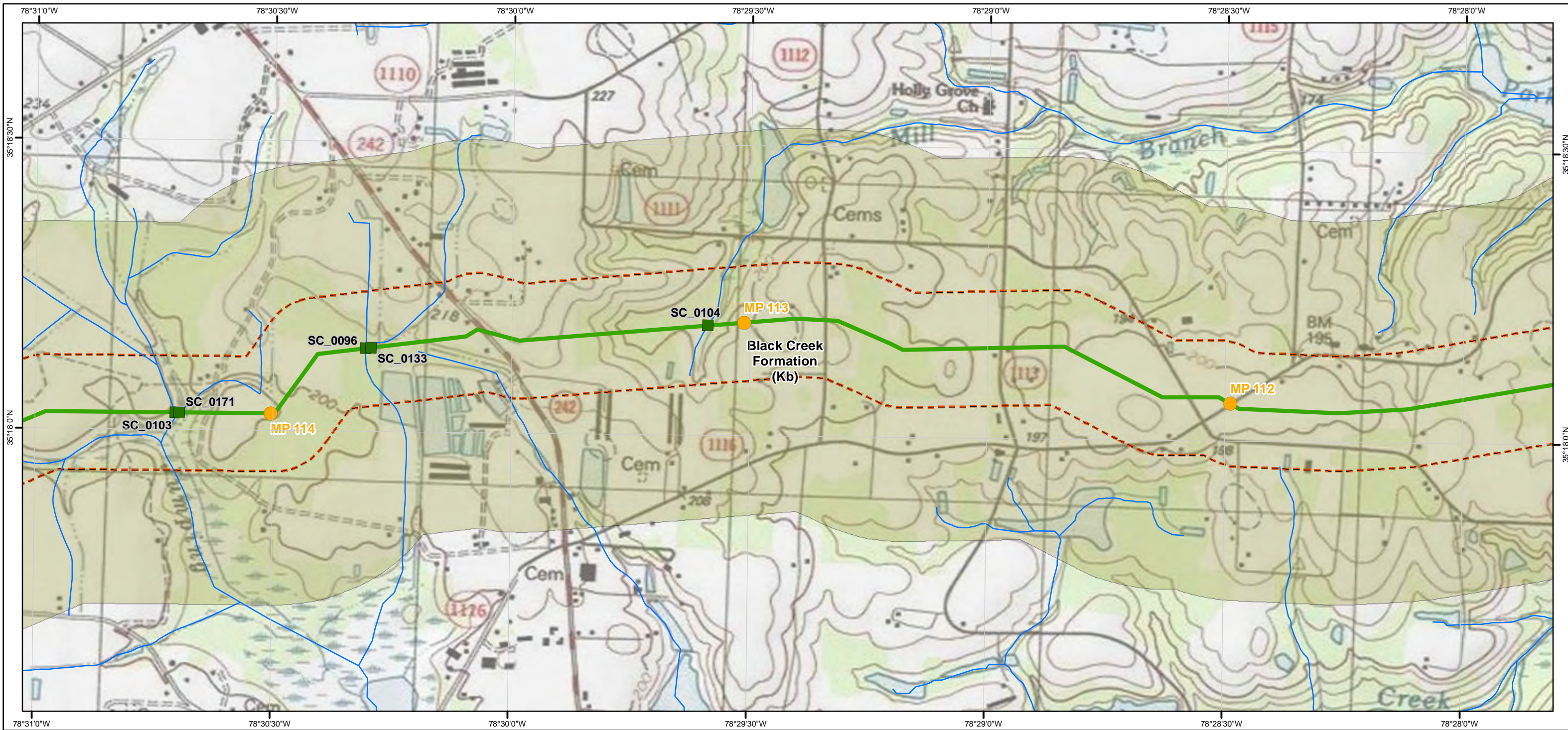


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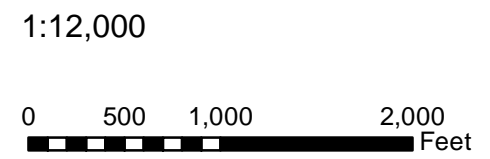
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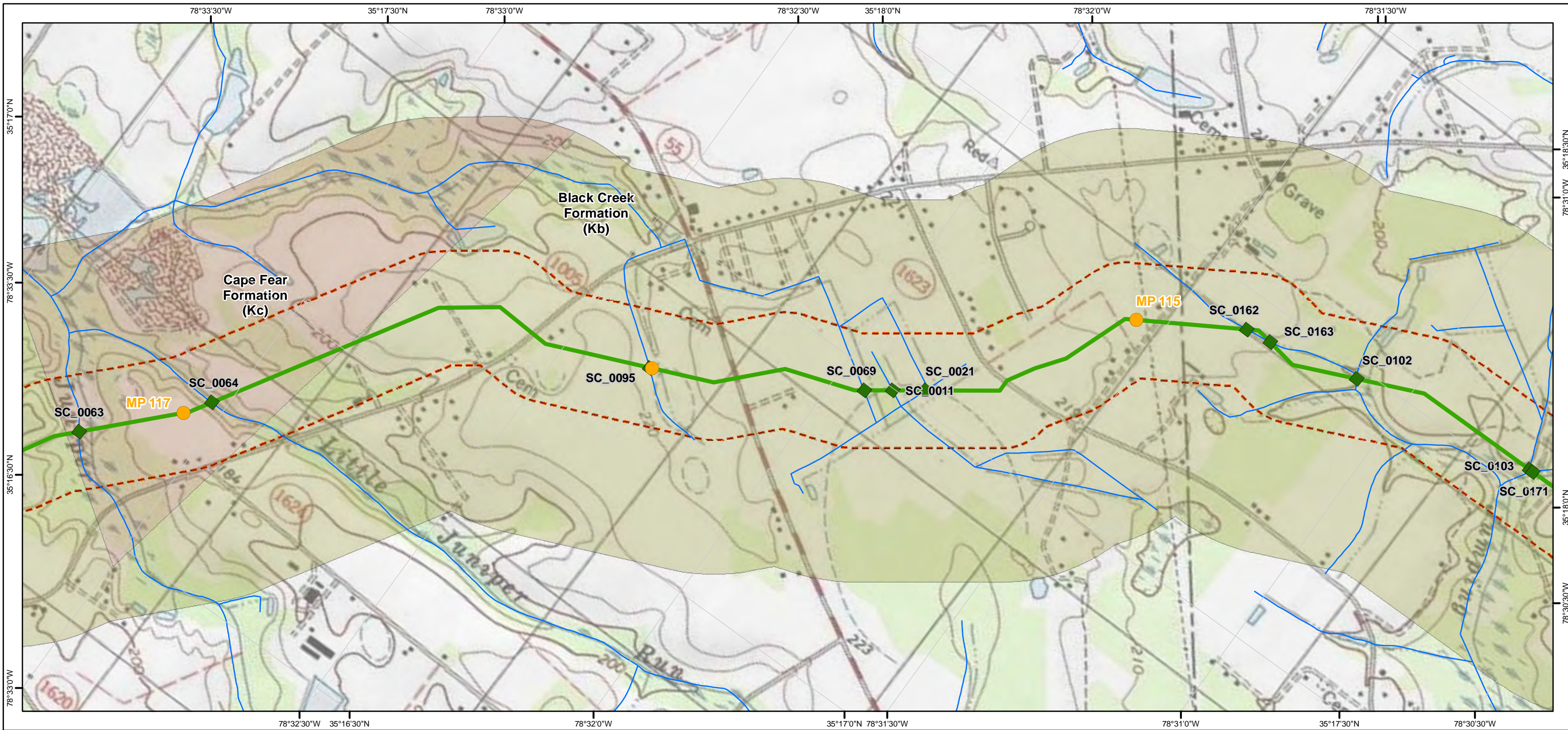
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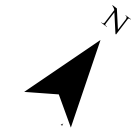
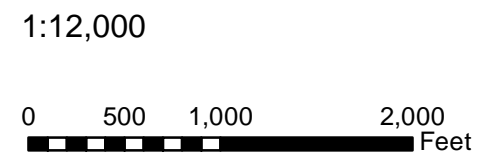




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Sheet 164 of 216



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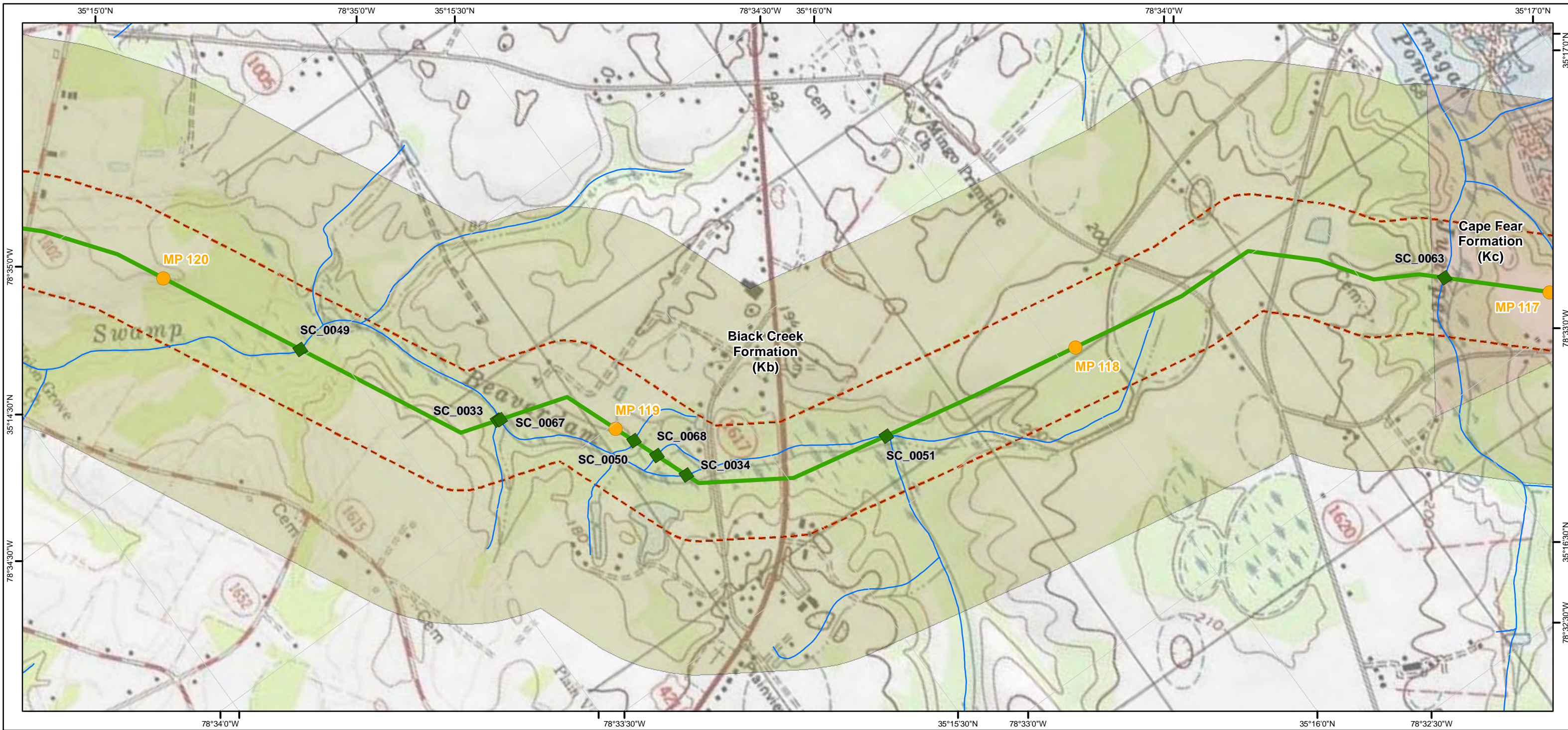
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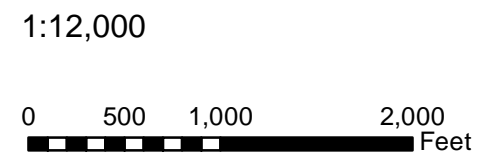
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Sheet 165 of 216

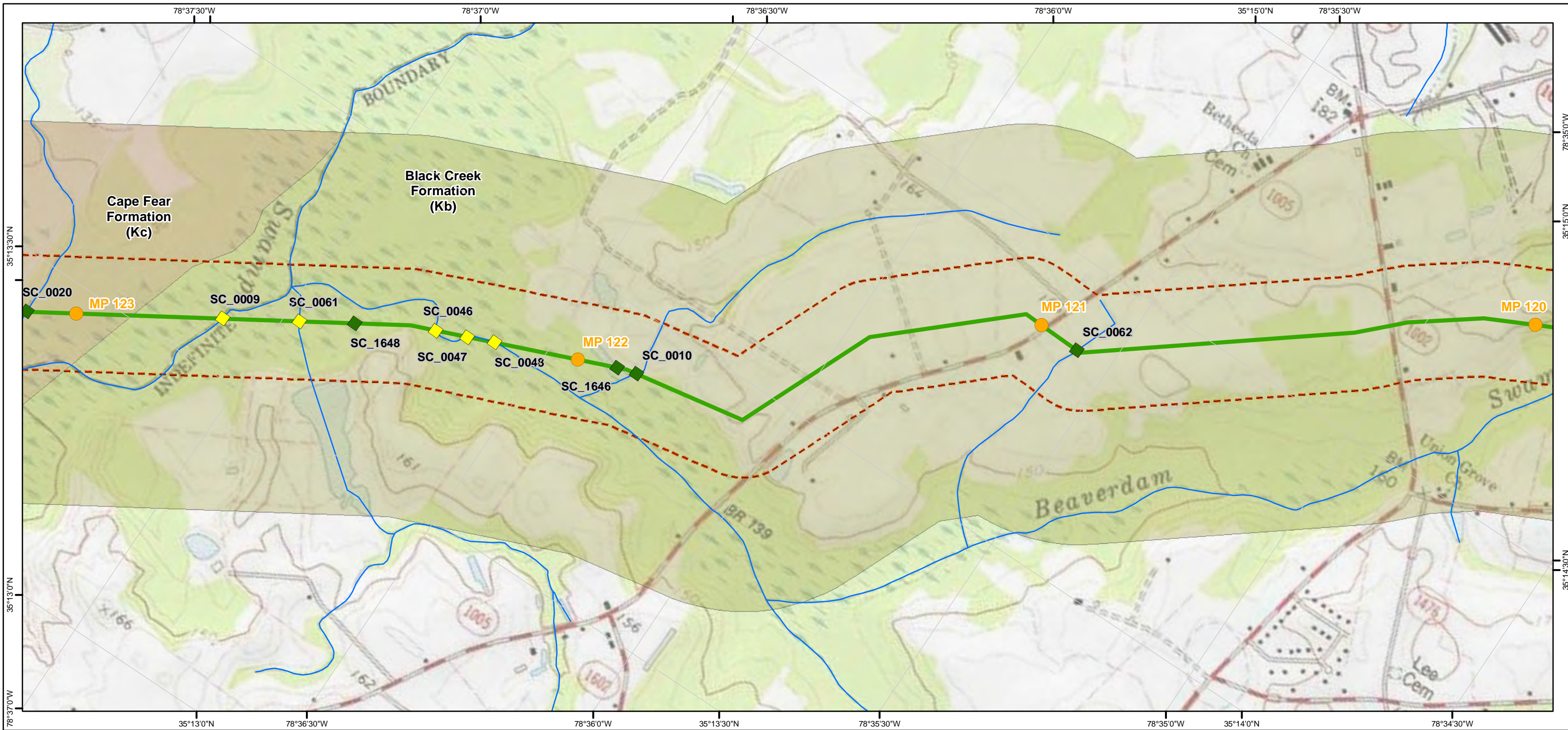


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5	04-21-2017	BP	ZL

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- 1) The current alignment centerline and mileposts provided by Dominion/GAI
  - 2) Data Projection: UTM 17N feet, NAD 83
  - 3) Map Reference Graticule in Geodetic Coordinates NAD 83
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  - 7) Geologic map data is approximately 1:250,000 to 1:500,000 scale, and is shown on these maps at a larger scale than it was intended.

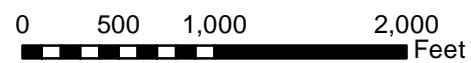


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 166 of 216

1:12,000



**Document Information:**

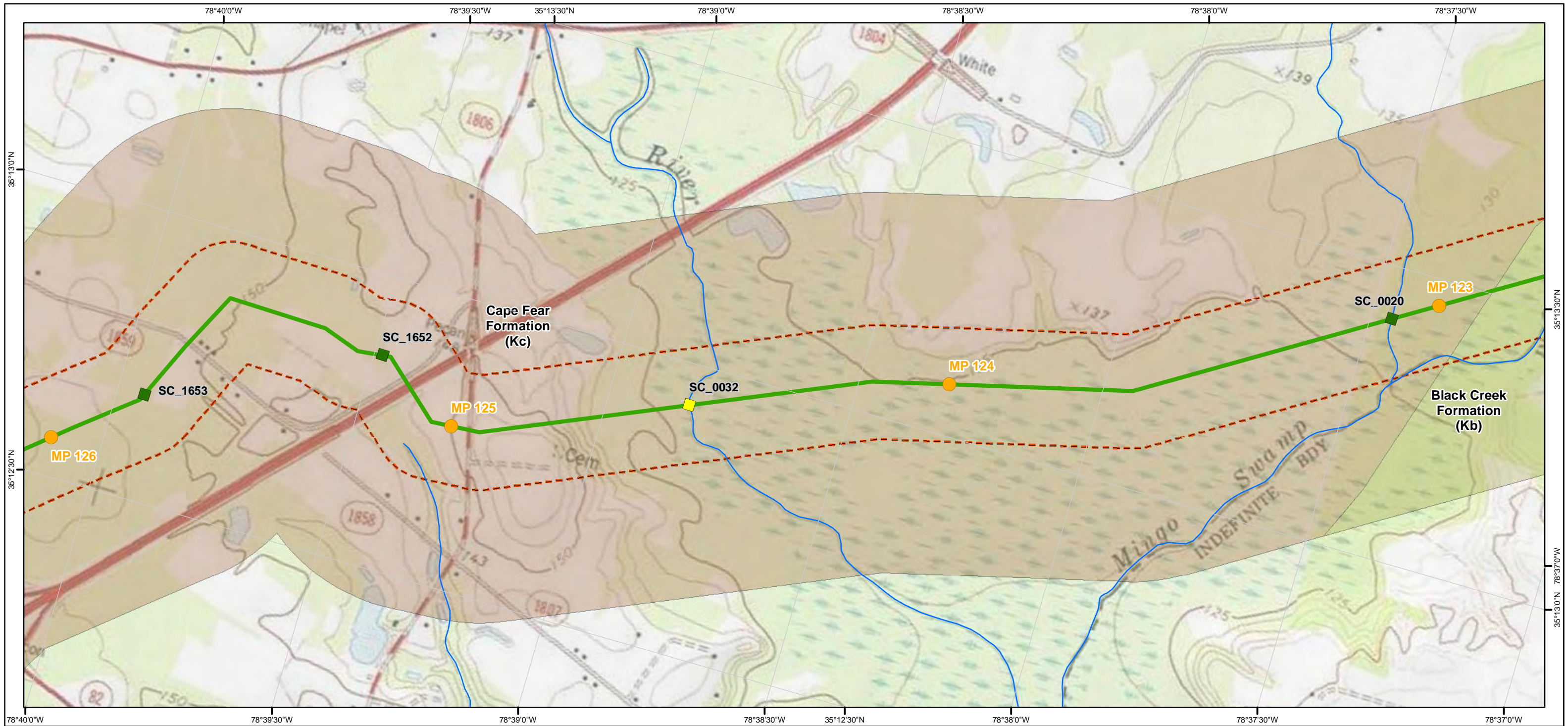
Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

**Notes:**

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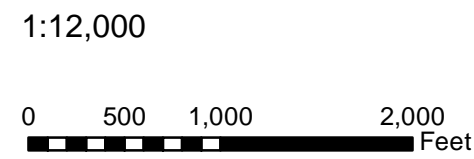




- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 167 of 216

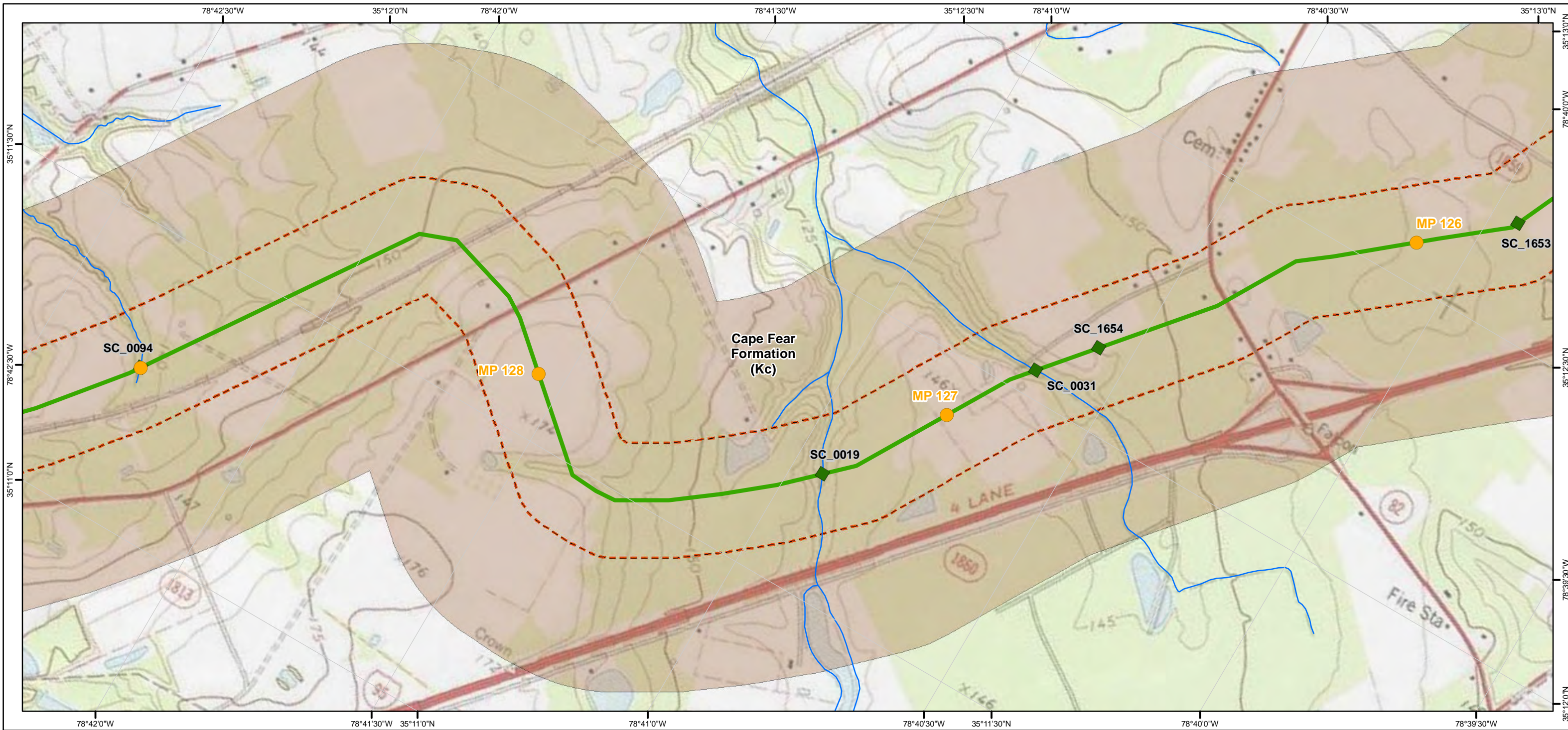


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Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
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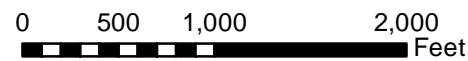


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 168 of 216

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**Document Information:**

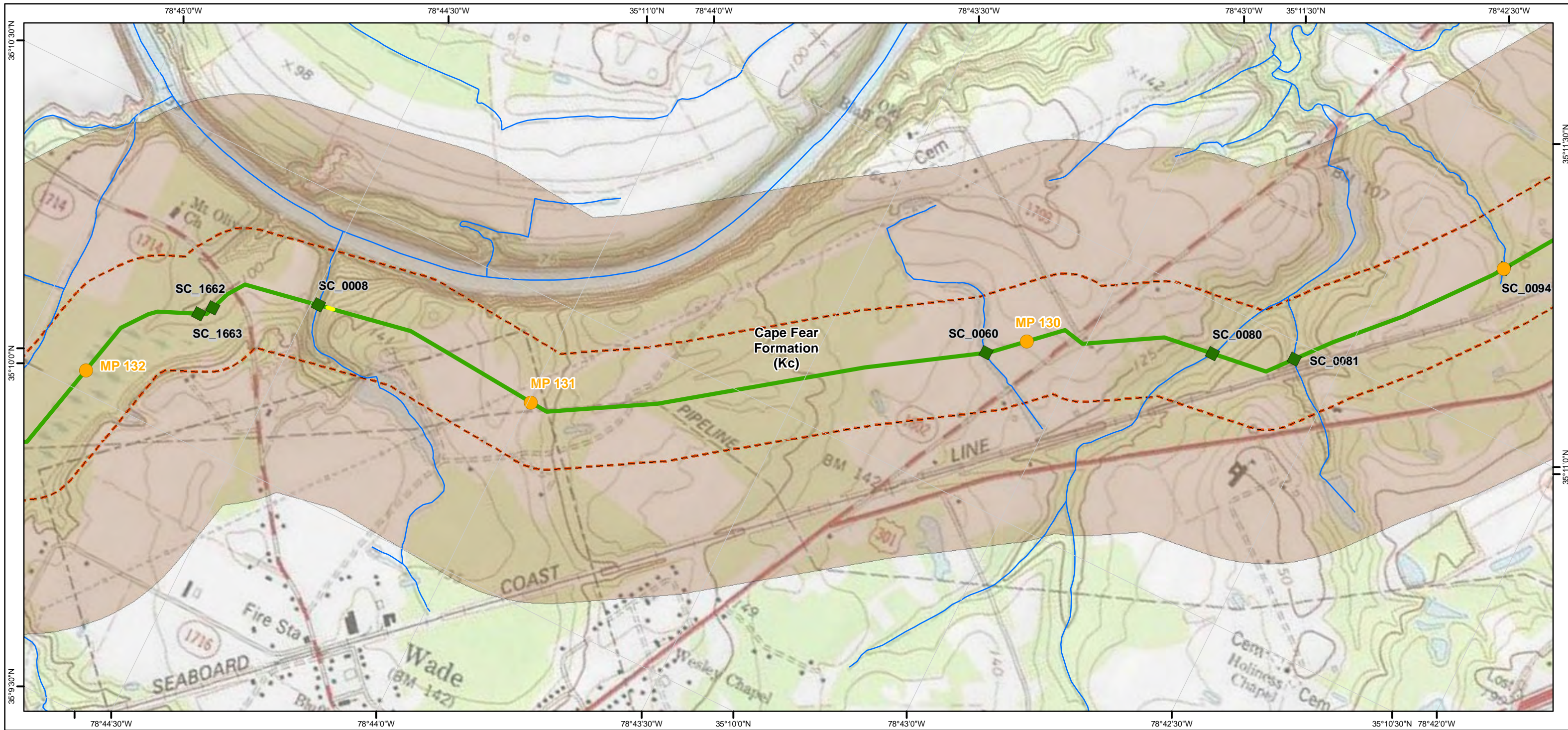
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**Legend**

**Hydrotechnical Hazards**

- High
- Moderate
- Low

**Potential Slope Instability Hazards**

- High
- Moderate
- Low

**Slope Inclination Along Route Centerline**

- > 58% (Extremely Steep)
- 40.01% - 58% (Very Steep)
- 30.01% - 40% (Moderately Steep)
- < 30% (Gentle)

**Other Symbols:**

- Mileposts
- Boreholes
- Steep Slope Hazard Site
- Faults
- NHD Streams
- 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

### Sheet 169 of 216

1:12,000

0 500 1,000 2,000 Feet

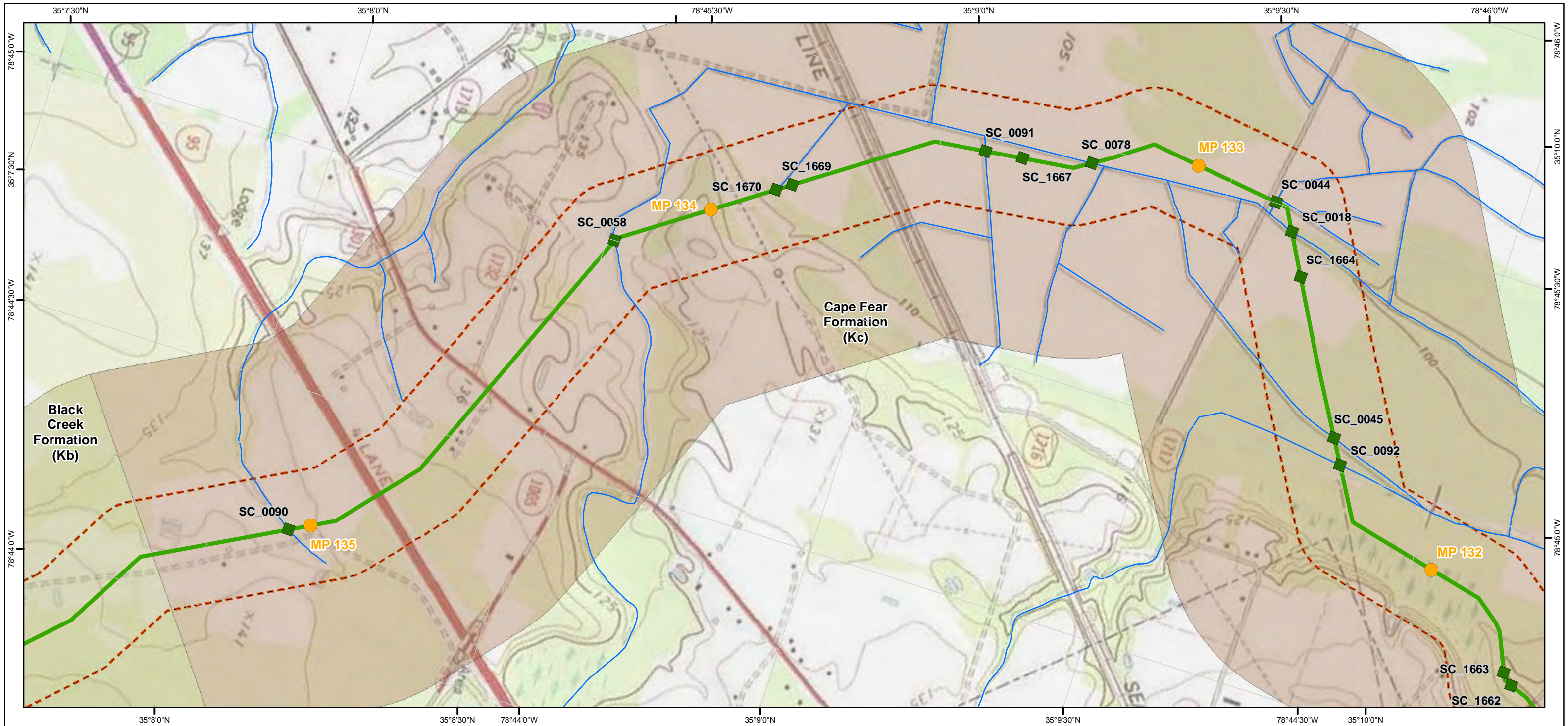
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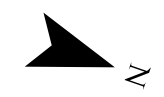
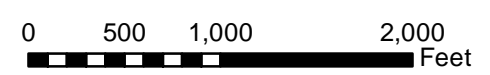


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 170 of 216

1:12,000



**Document Information:**

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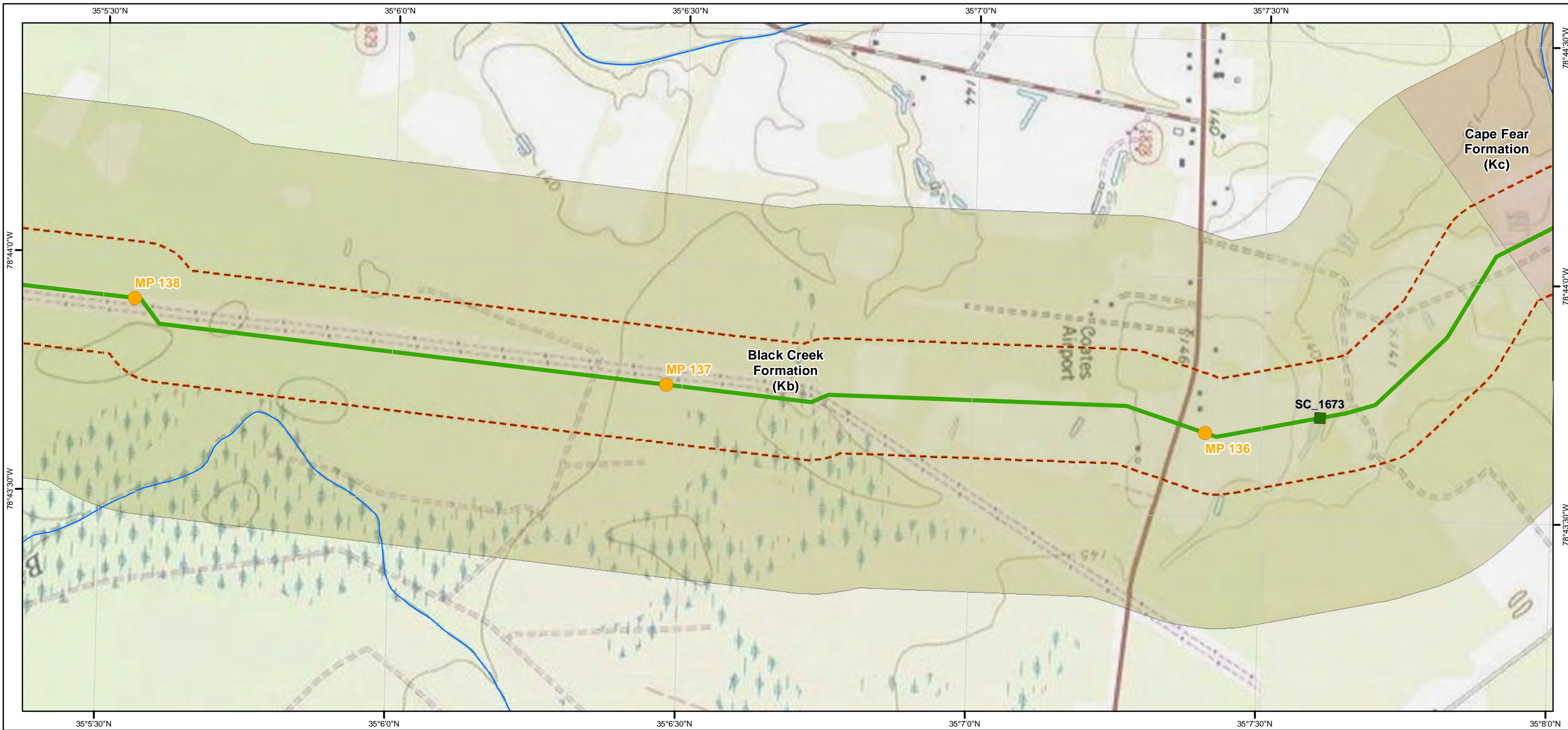
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**Dominion**  
**Geosyntec**  
consultants

**TESSE** **CONSULTATIONS**



- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 171 of 216

1:12,000

0 500 1,000 2,000  
Feet



### Document Information:

Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
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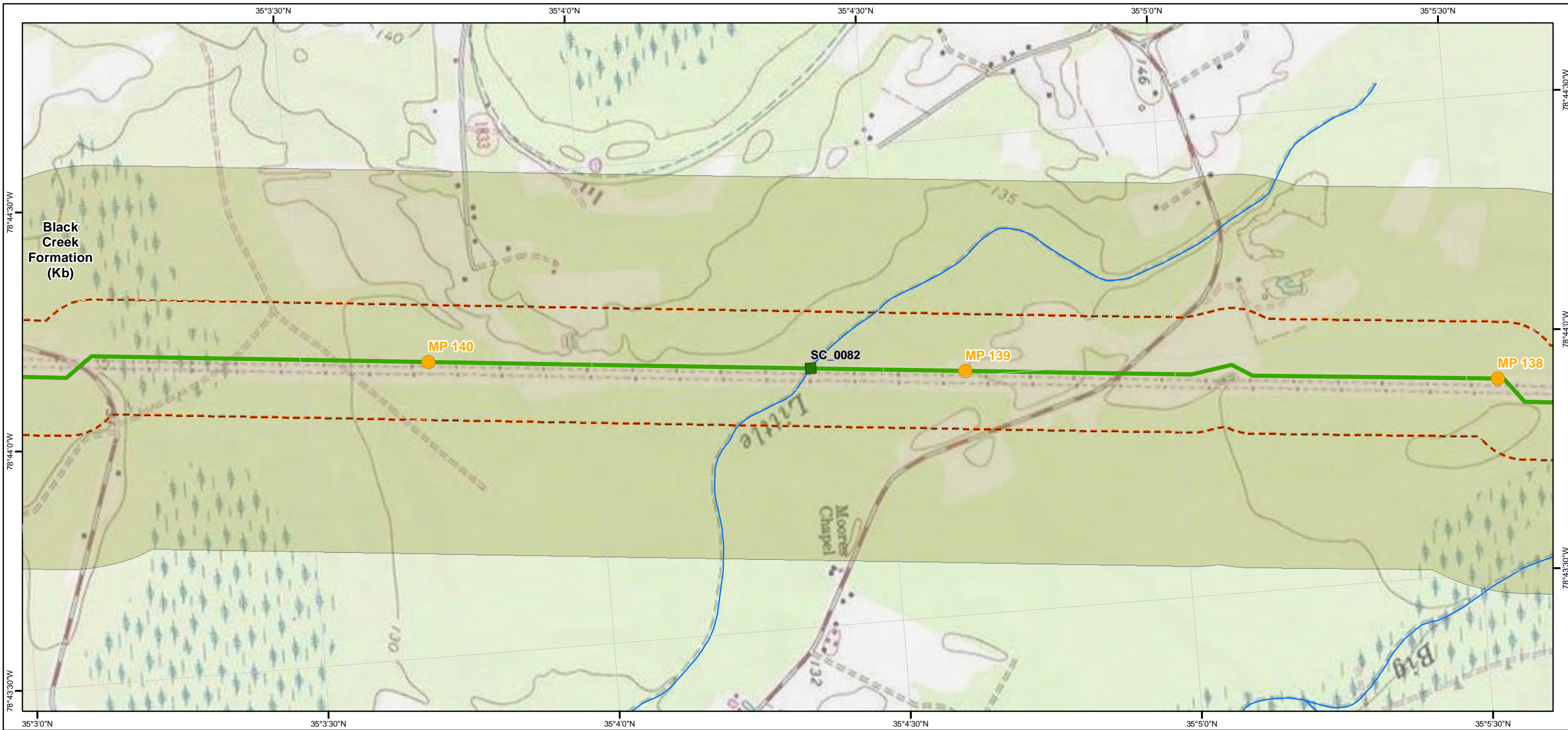
**Dominion**

**Geosyntec**

consultants

**TESSE**  **ATIONS**



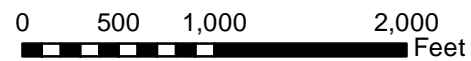


- Legend**
- Hydrotechnical Hazards**
    - High (Red square)
    - Moderate (Yellow square)
    - Low (Green square)
  - Potential Slope Instability Hazards**
    - High (Red outline)
    - Moderate (Yellow outline)
    - Low (Green outline)
  - Slope Inclination Along Route Centerline**
    - > 58% (Extremely Steep) (Red line)
    - 40.01% - 58% (Very Steep) (Orange line)
    - 30.01% - 40% (Moderately Steep) (Yellow line)
    - < 30% (Gentle) (Green line)
  - Other Symbols**
    - Mileposts (Orange circle)
    - Boreholes (Blue circle)
    - Steep Slope Hazard Site (Purple circle)
    - Faults (Brown line)
    - NHD Streams (Blue line)
    - 600 ft buffer either side of centerline (Red dashed line)

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 172 of 216

1:12,000



### Document Information:

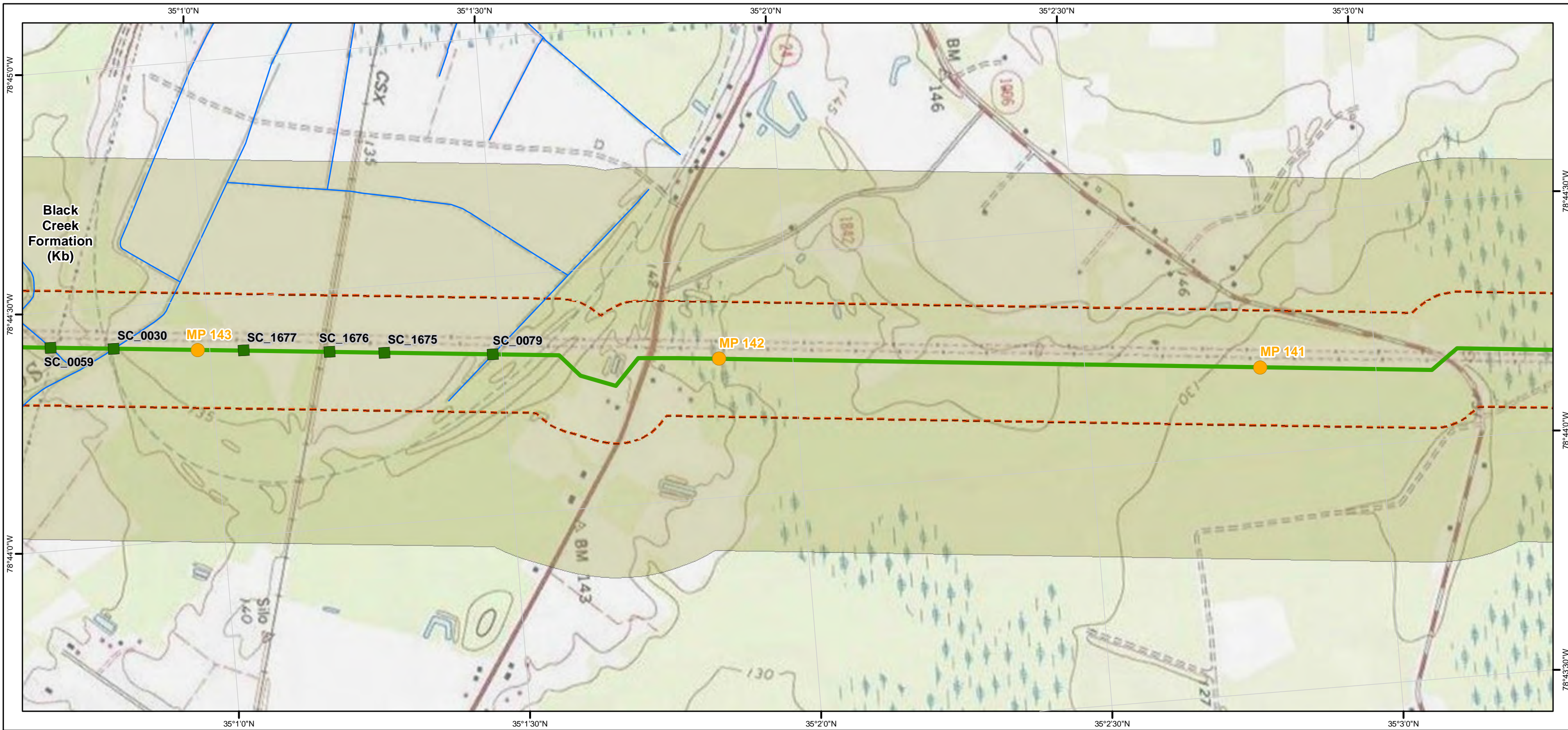
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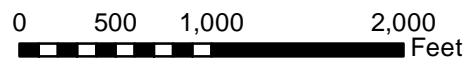


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 173 of 216

1:12,000



### Document Information:

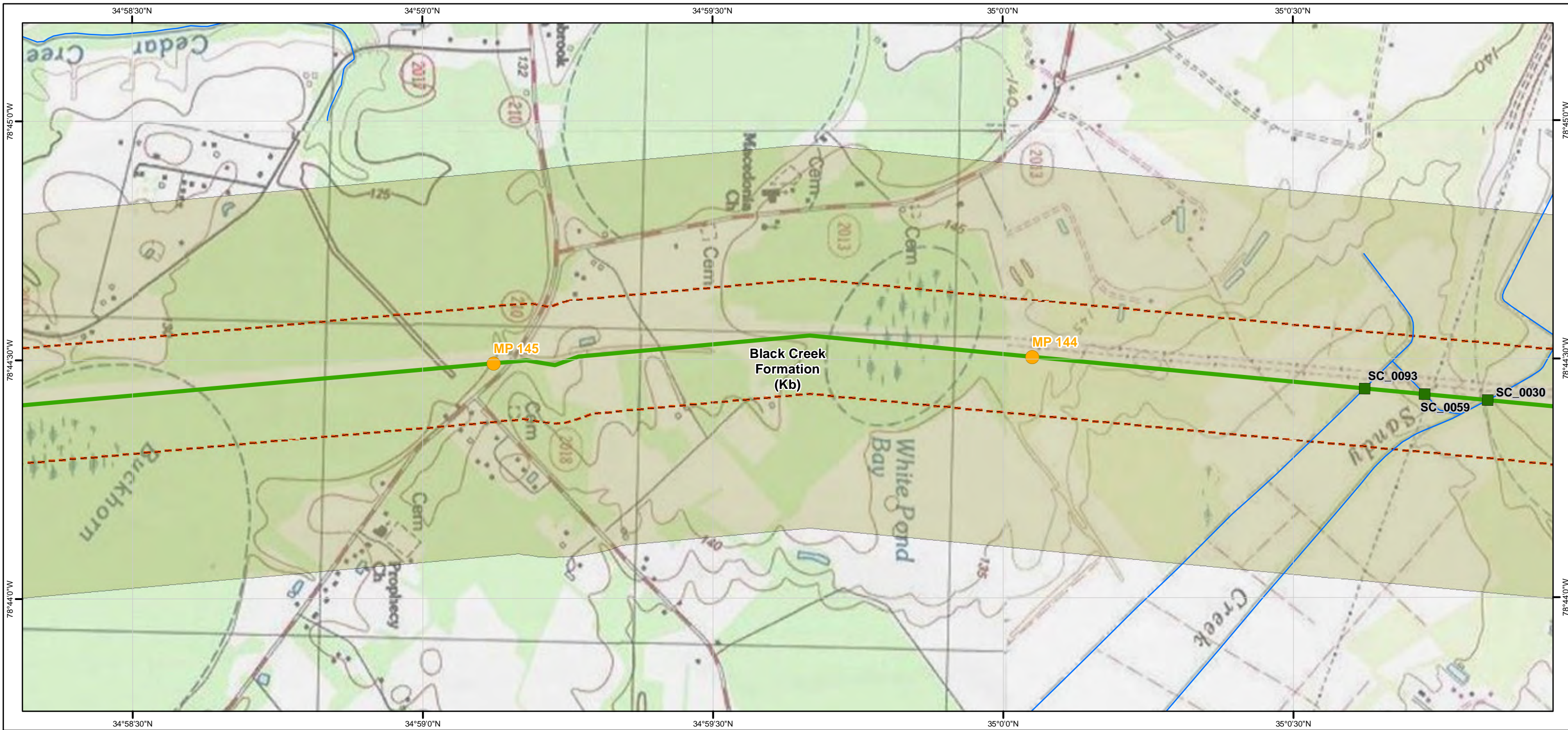
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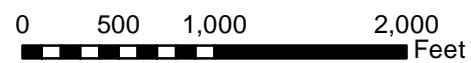


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
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- Slope Inclination Along Route Centerline**
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  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 174 of 216

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**Document Information:**

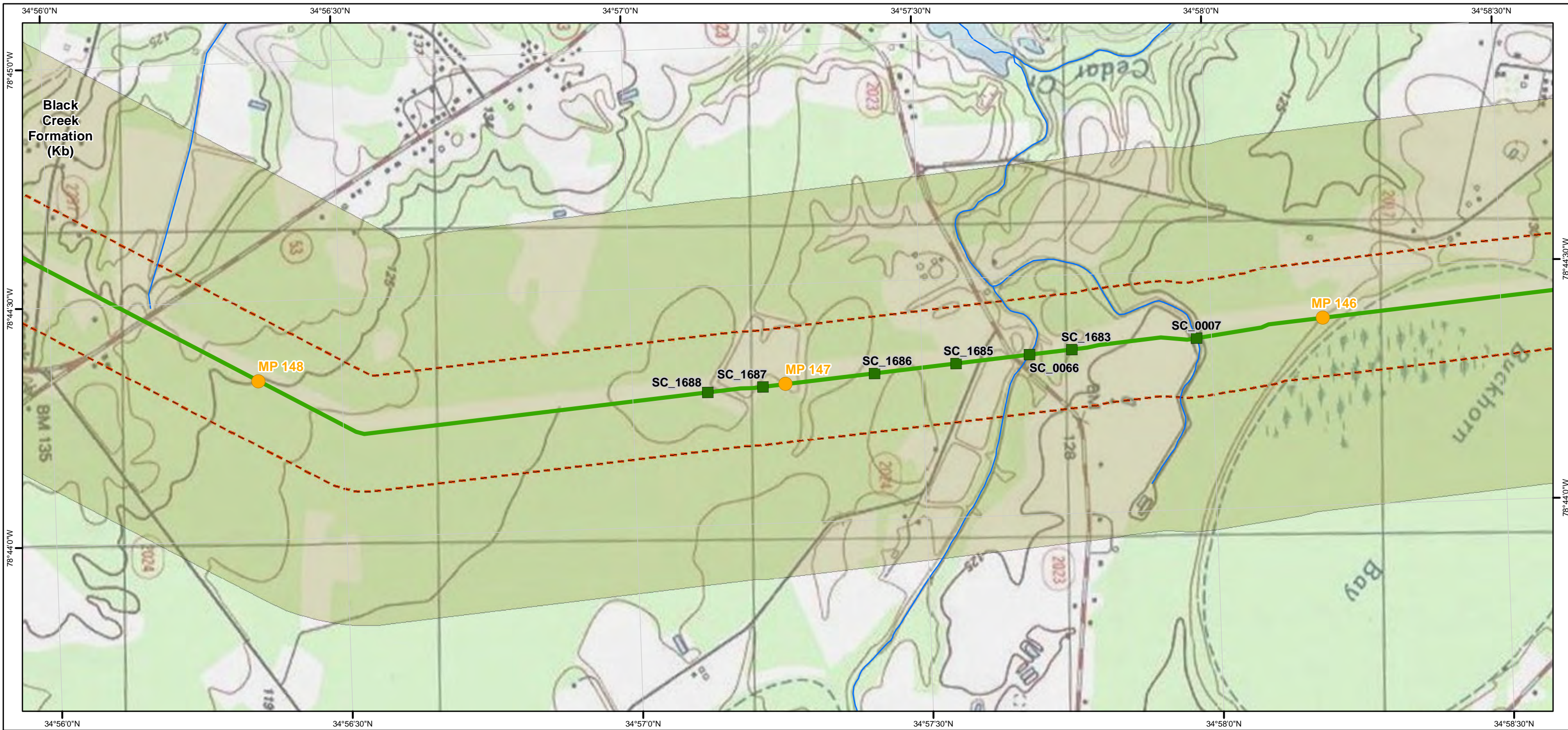
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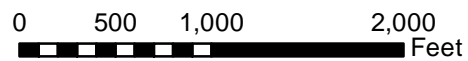


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 175 of 216

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**Document Information:**

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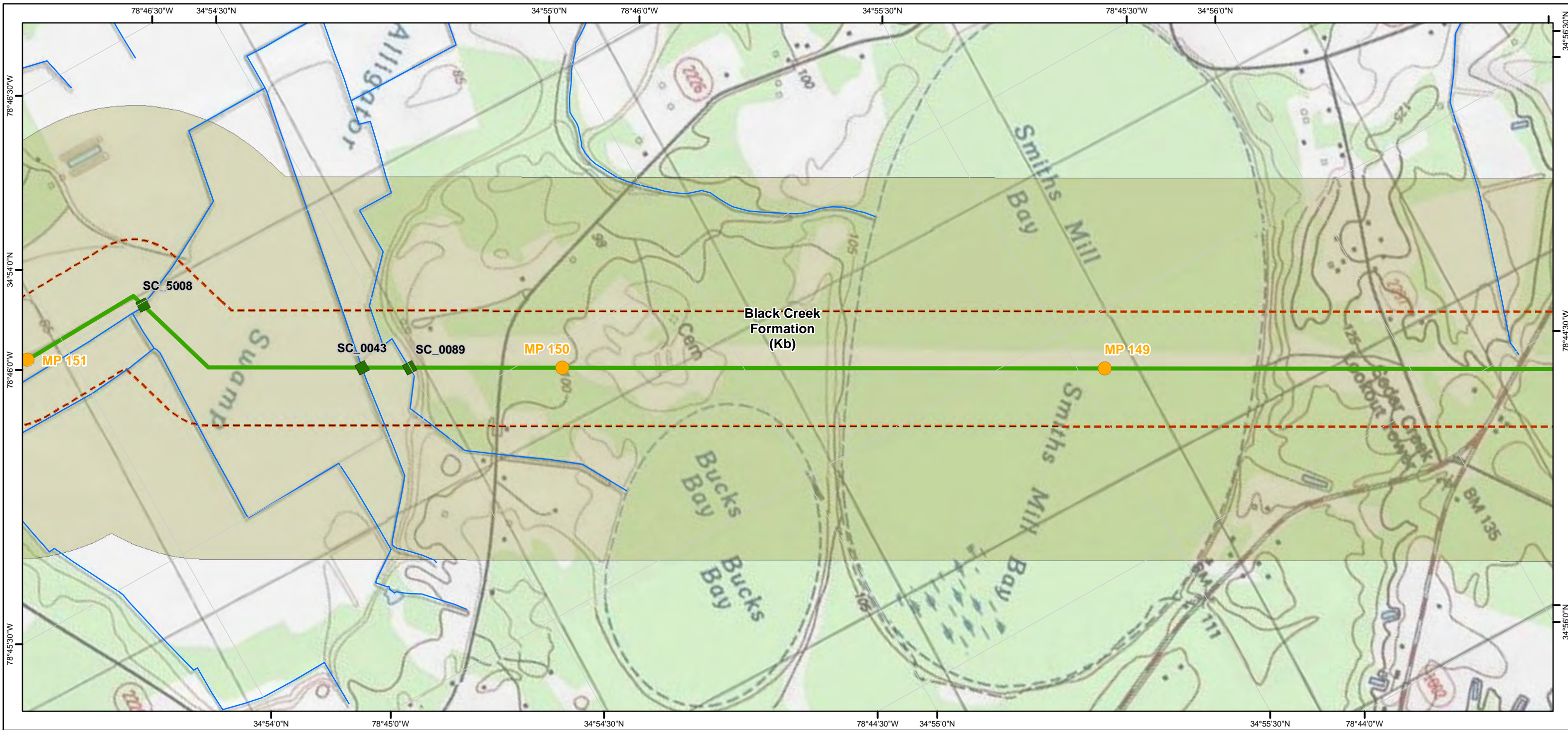


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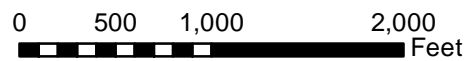


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
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  - 30.01% - 40% (Moderately Steep)
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- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 176 of 216

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### Document Information:

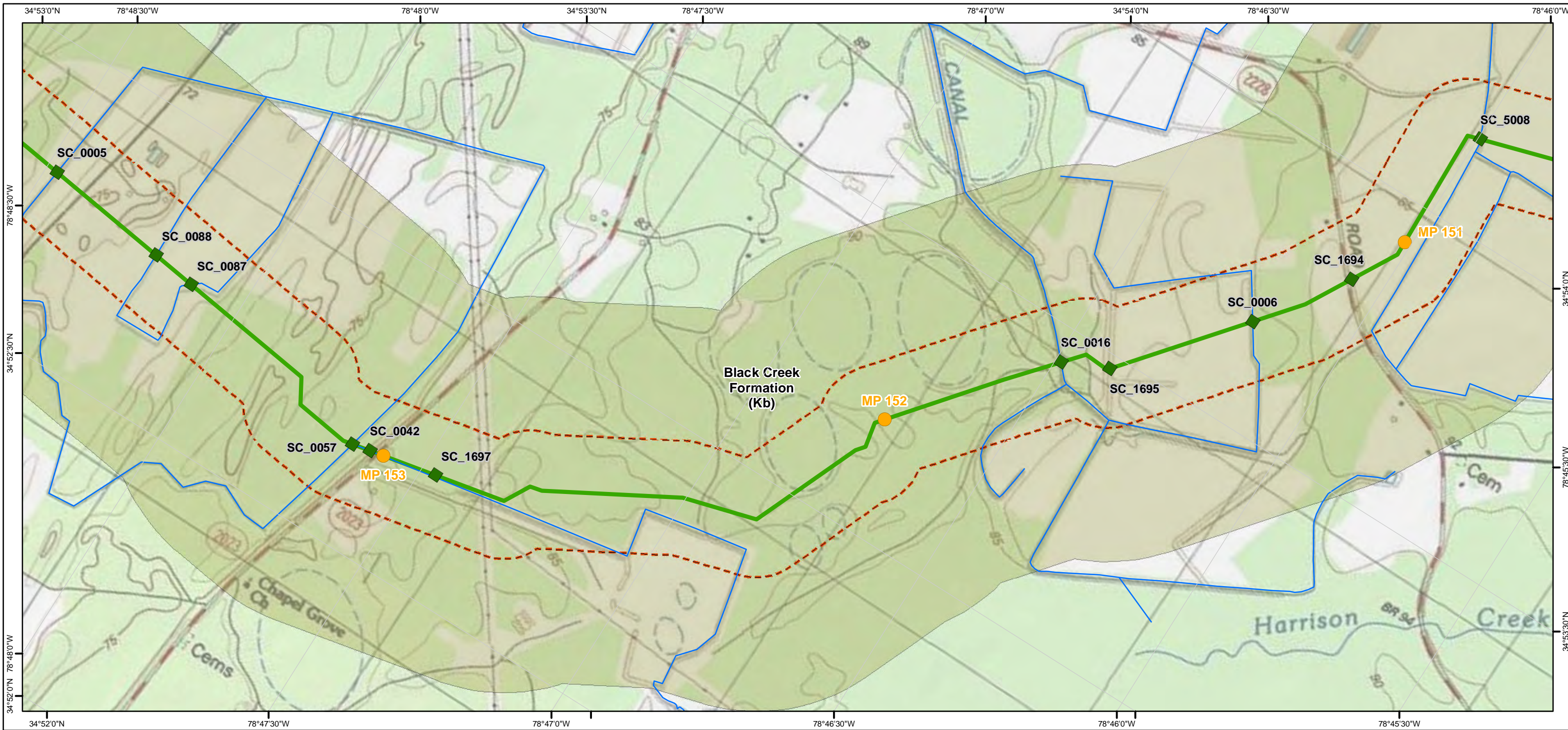
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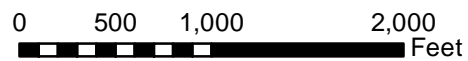


- Legend**
- Hydrotechnical Hazards**
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  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
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- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 177 of 216

1:12,000



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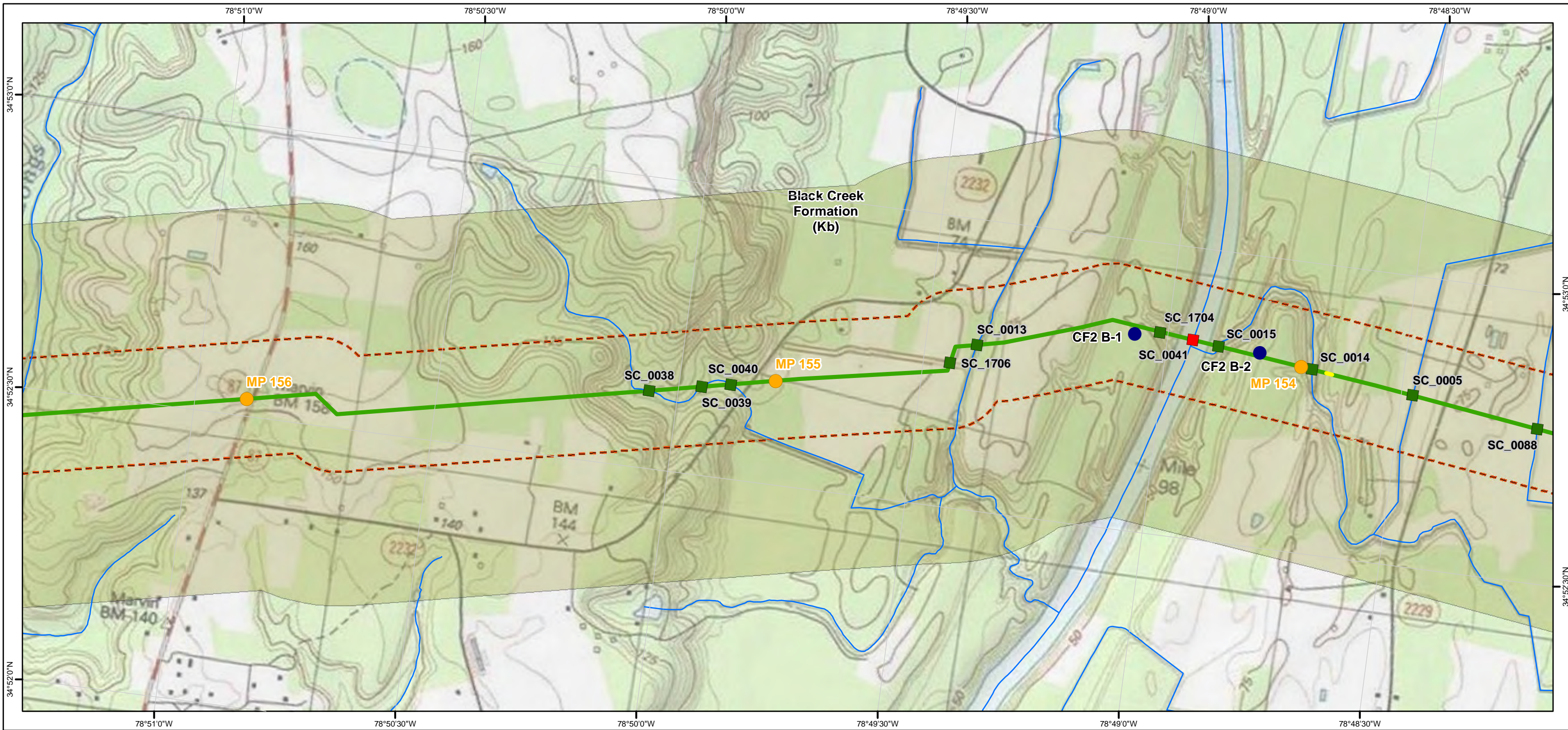
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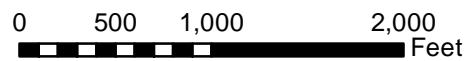


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

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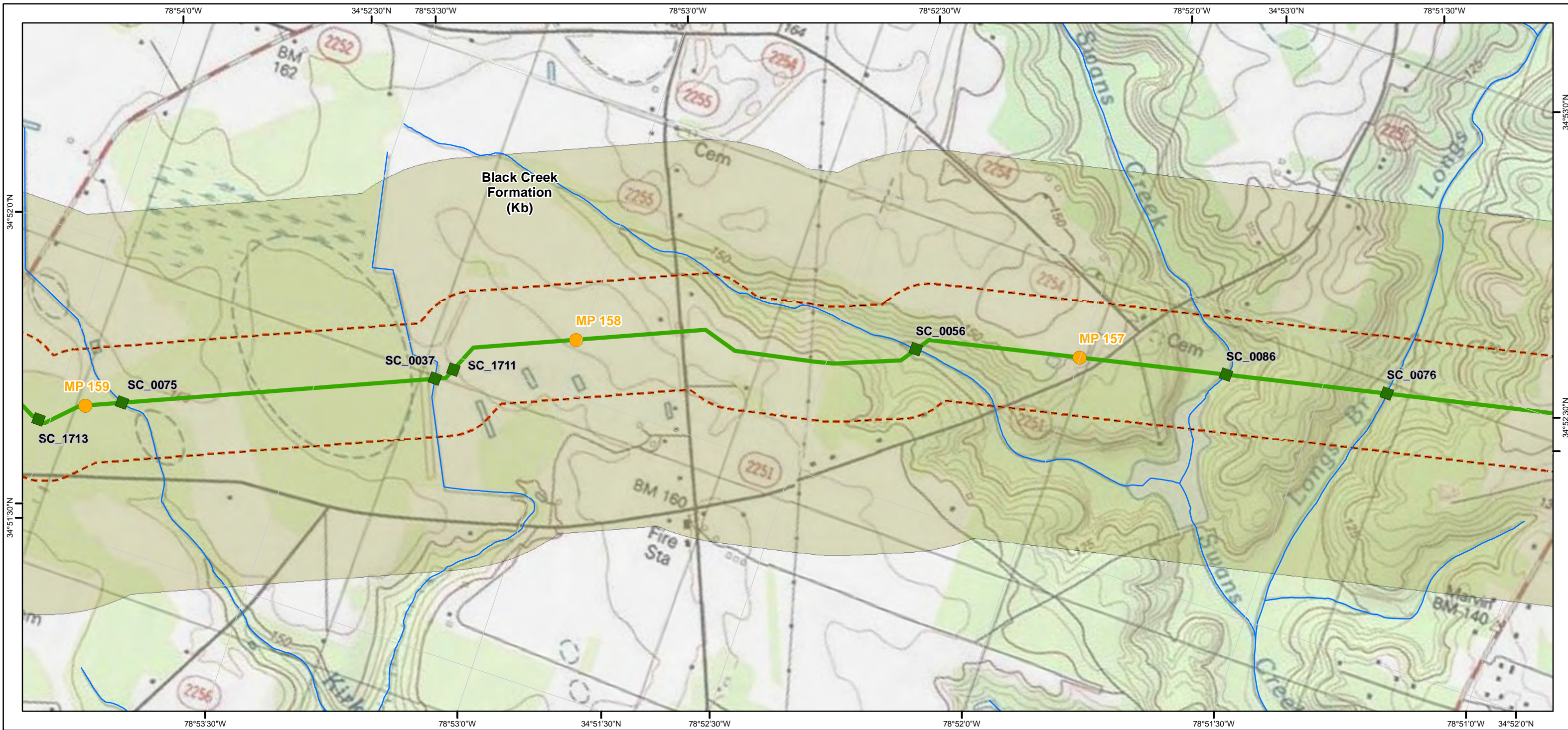


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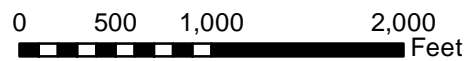


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Sheet 179 of 216

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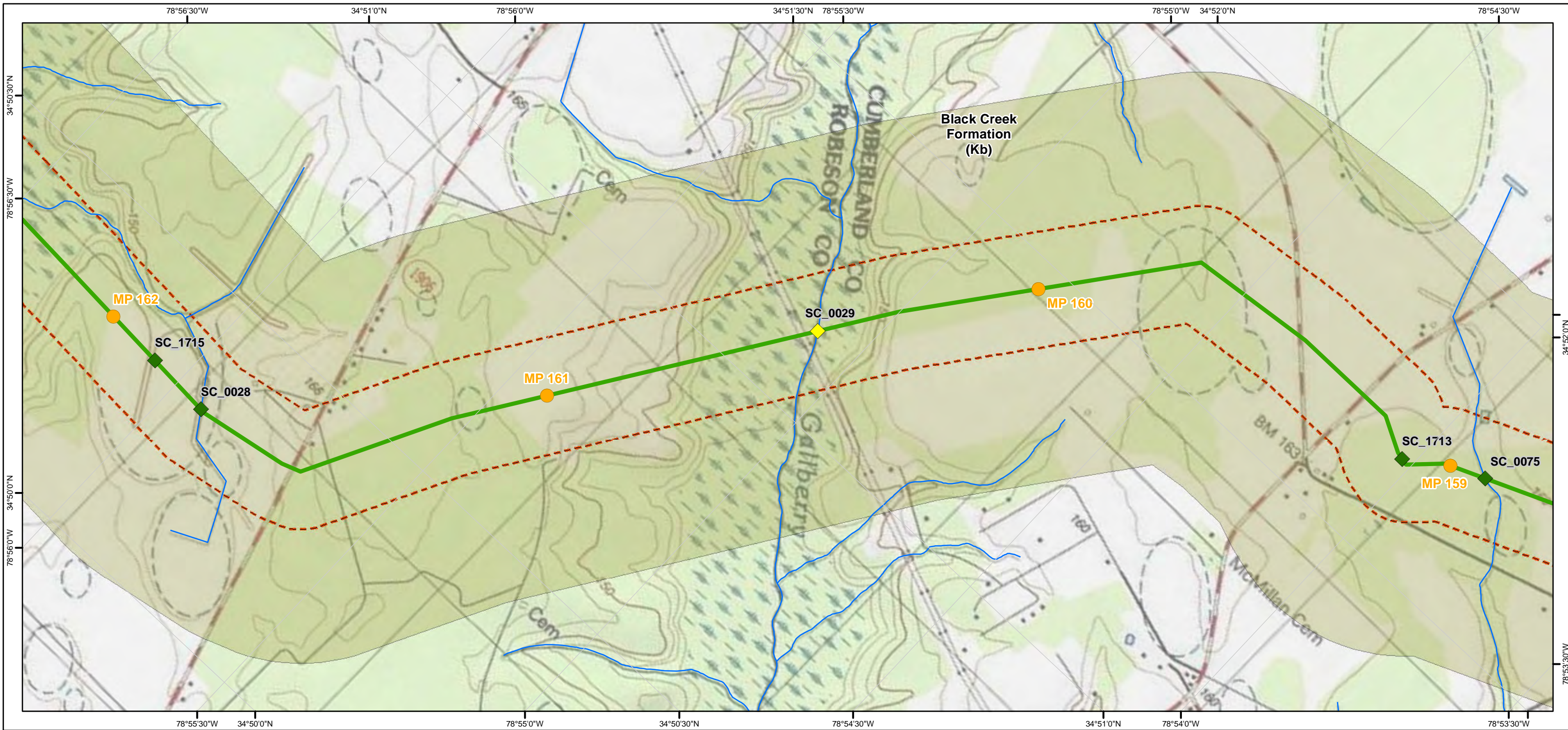
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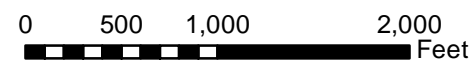


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Sheet 180 of 216

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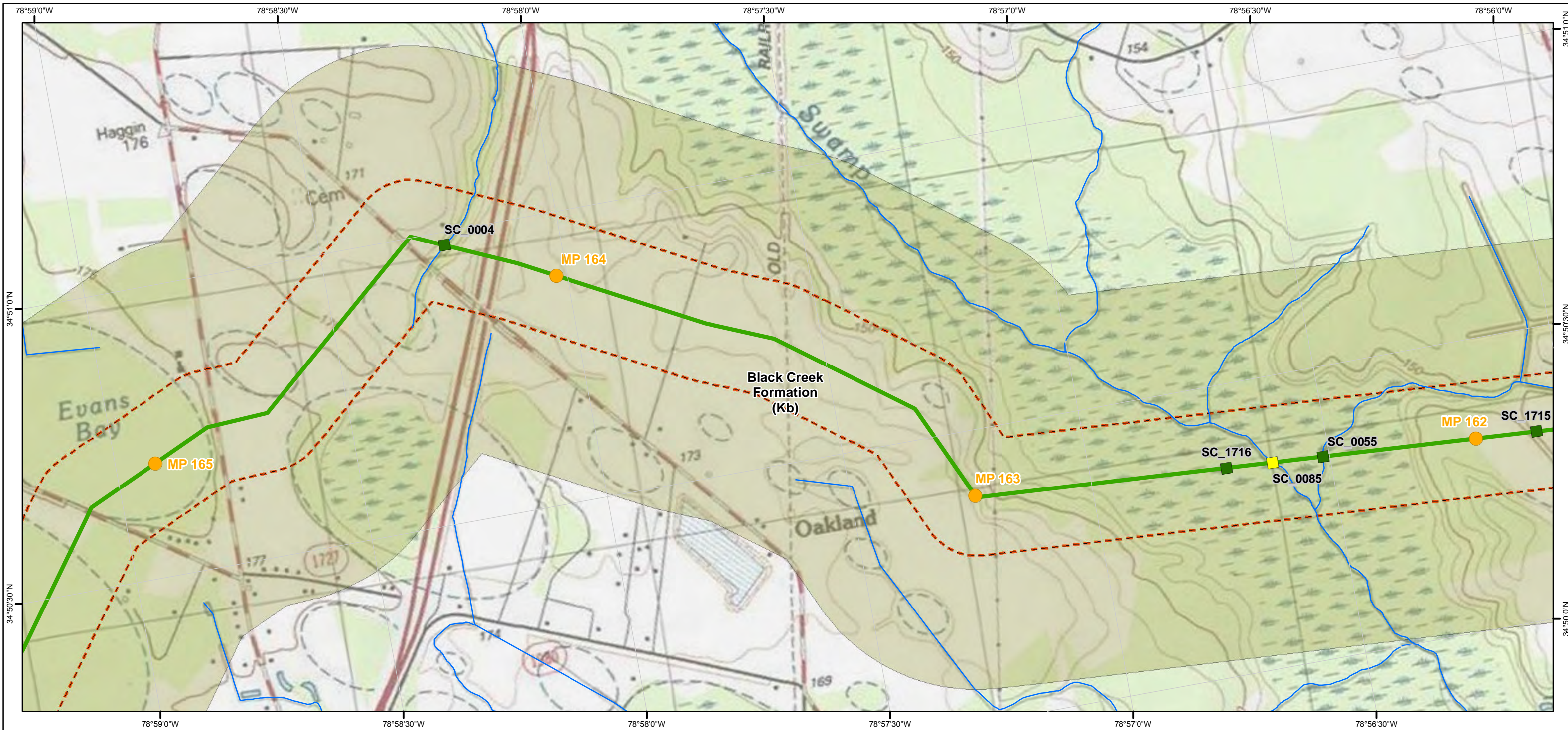
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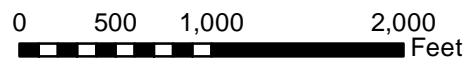


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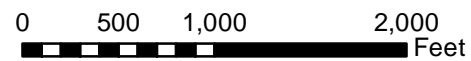


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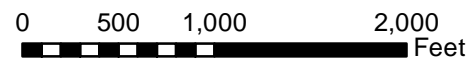


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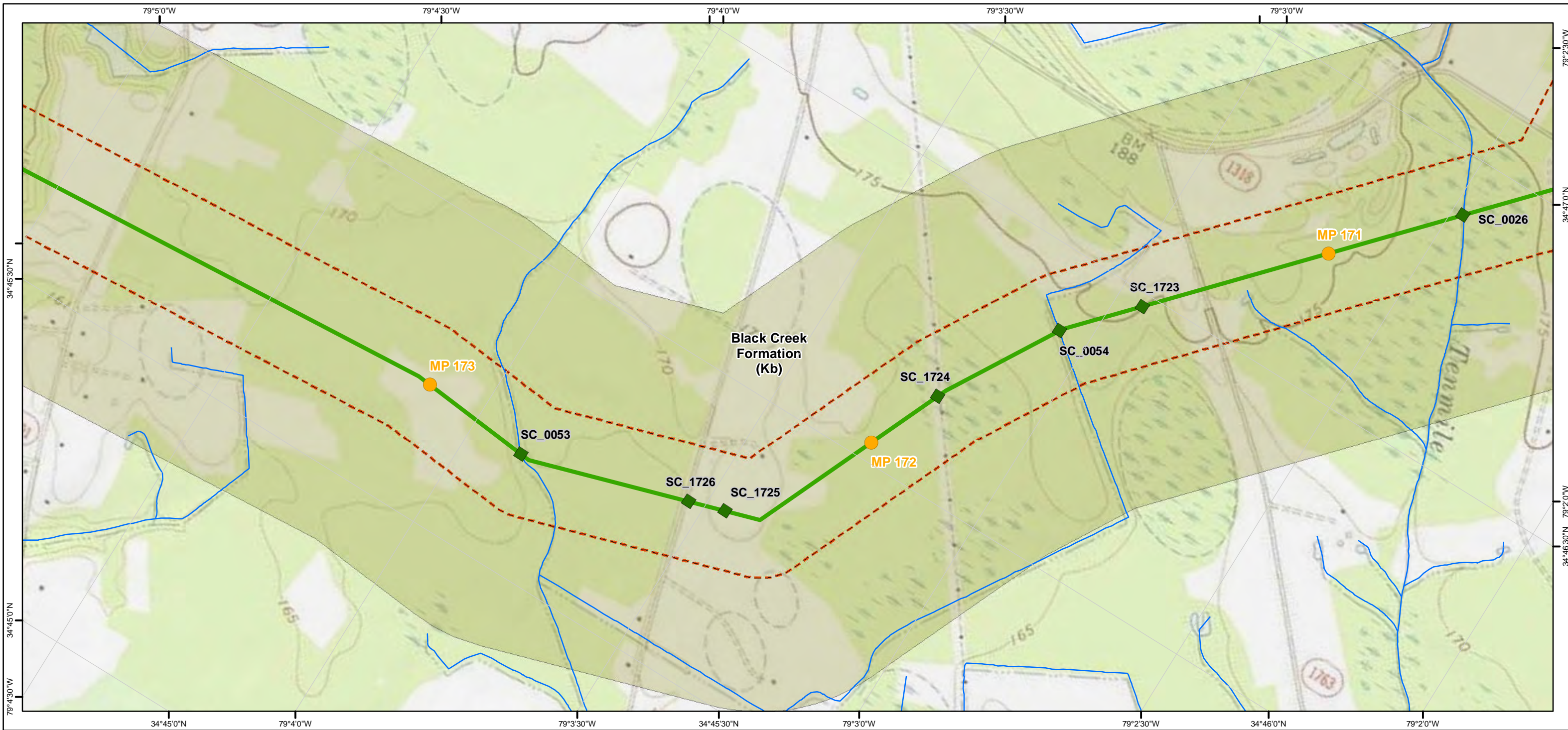
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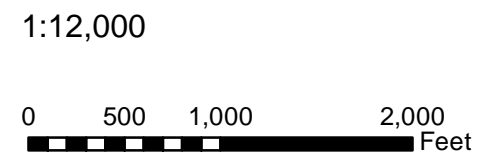




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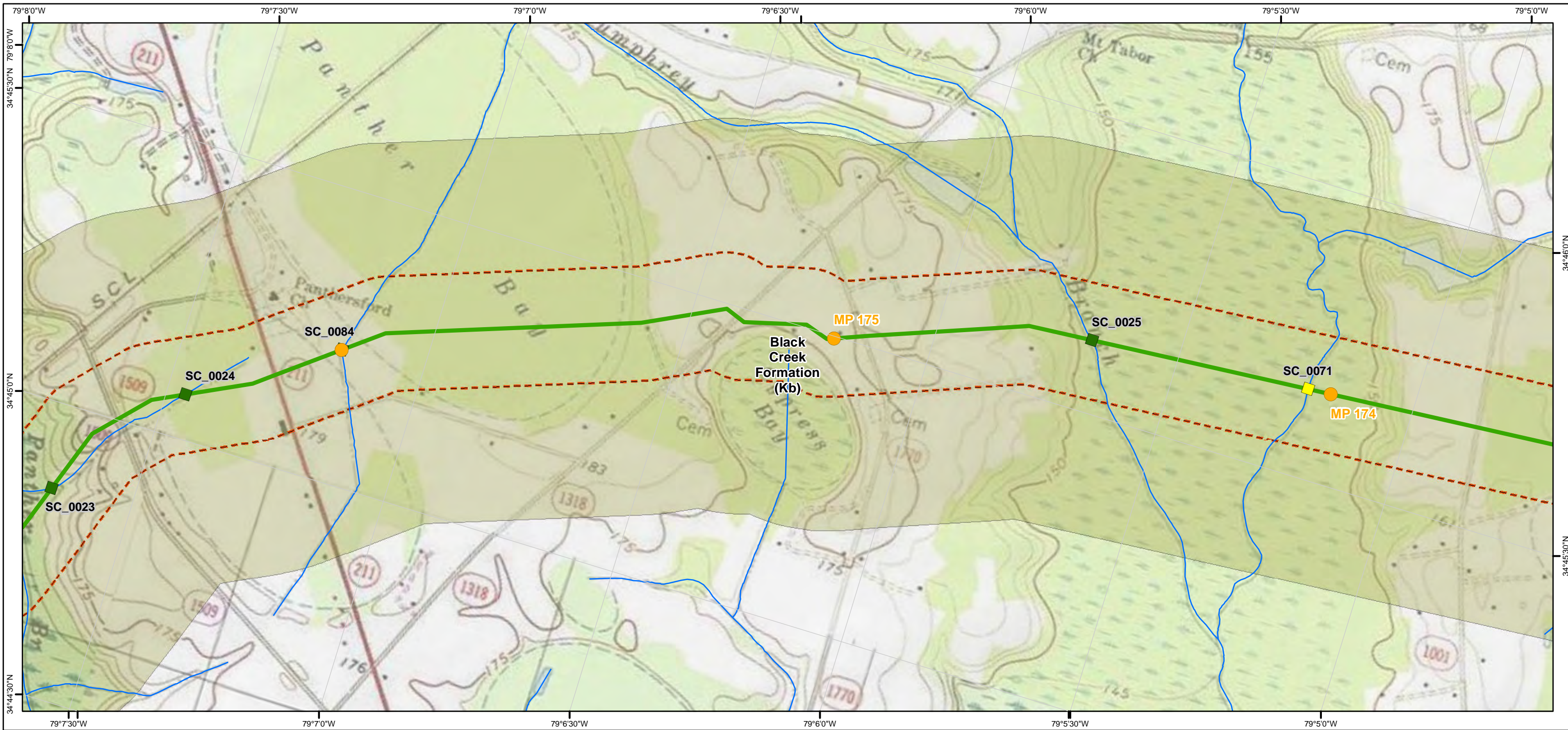
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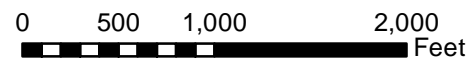


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# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 185 of 216

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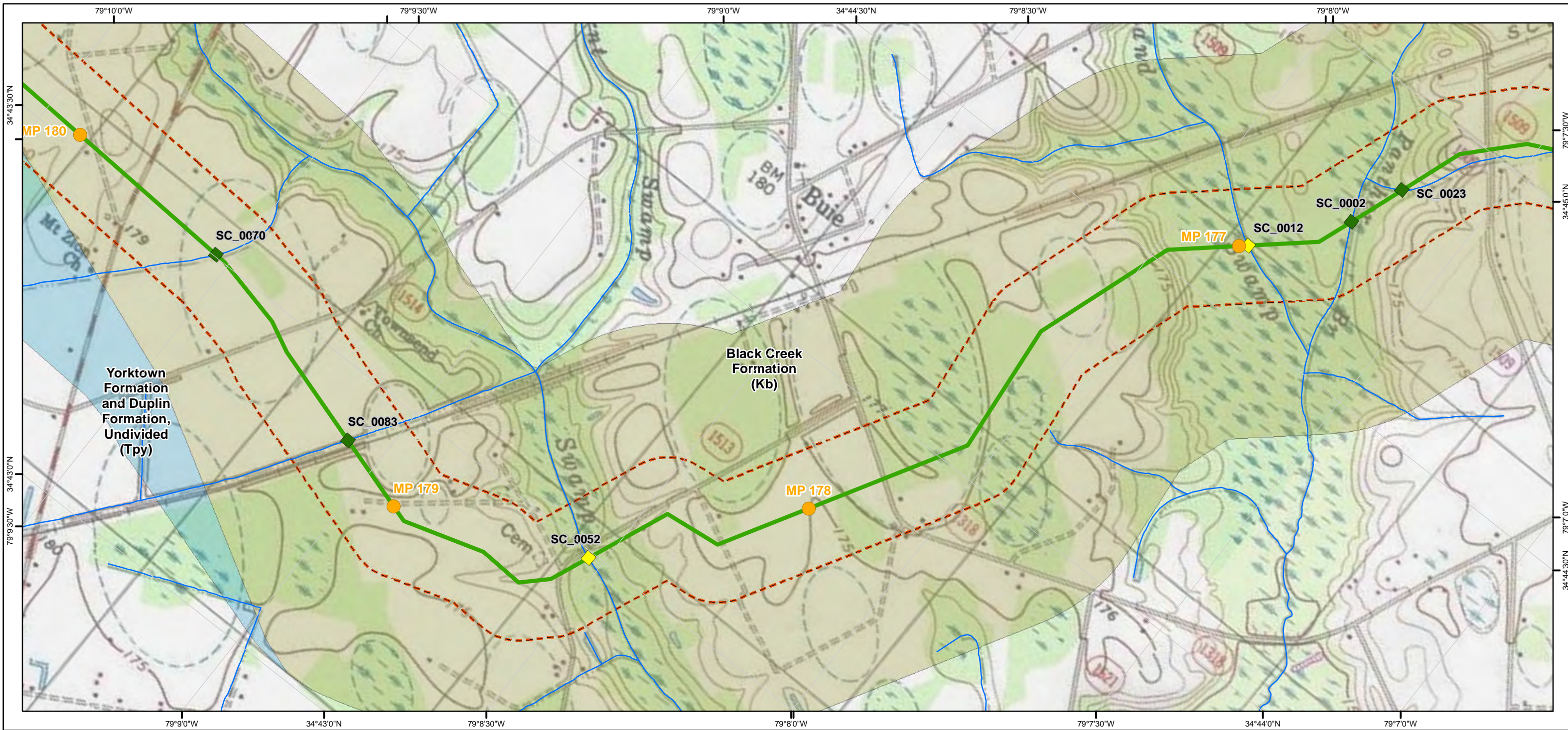
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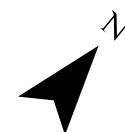
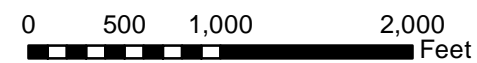


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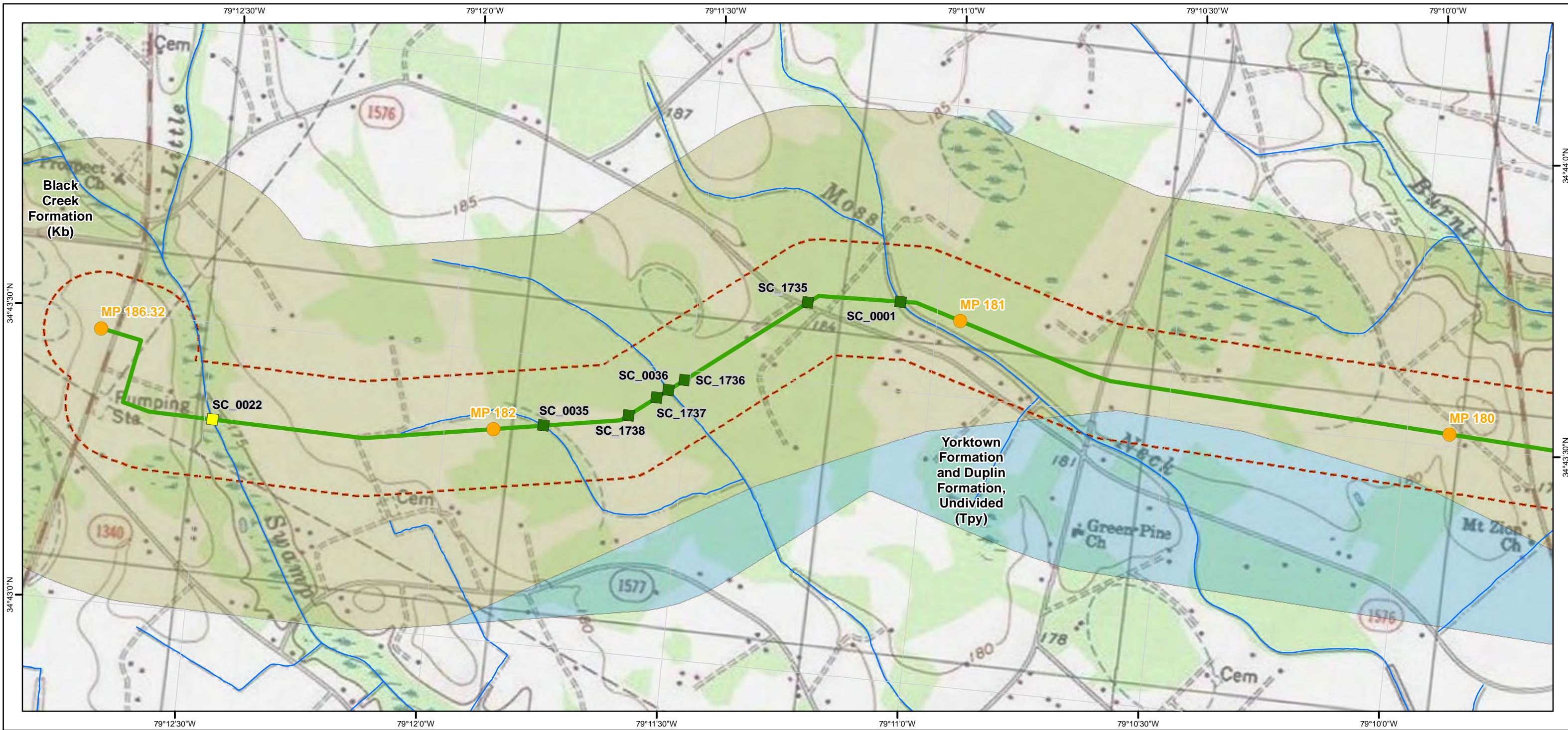
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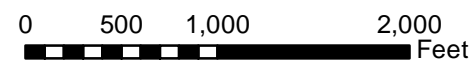


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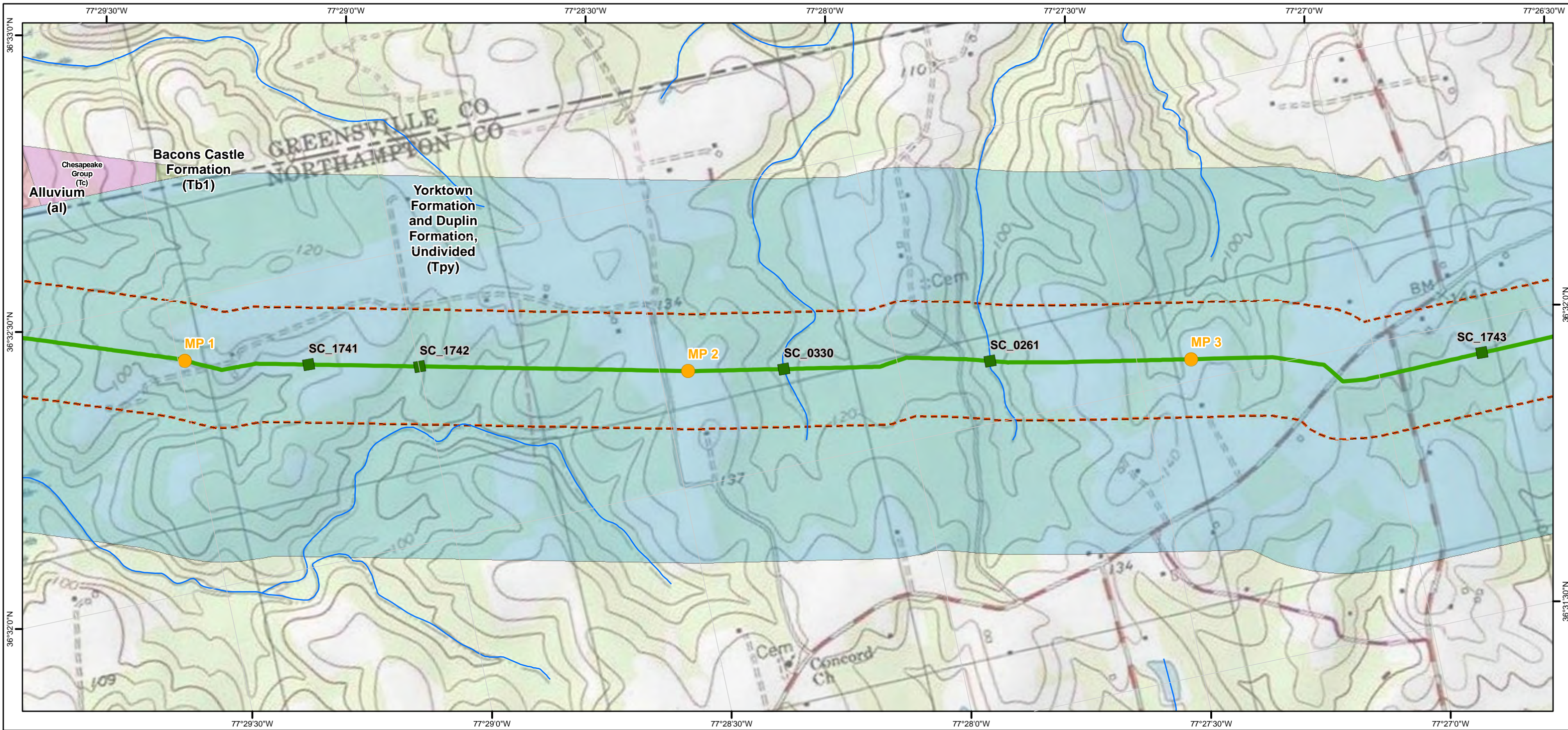
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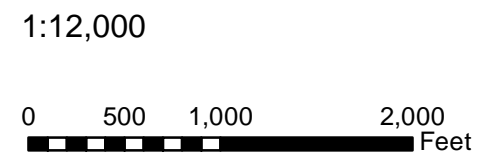




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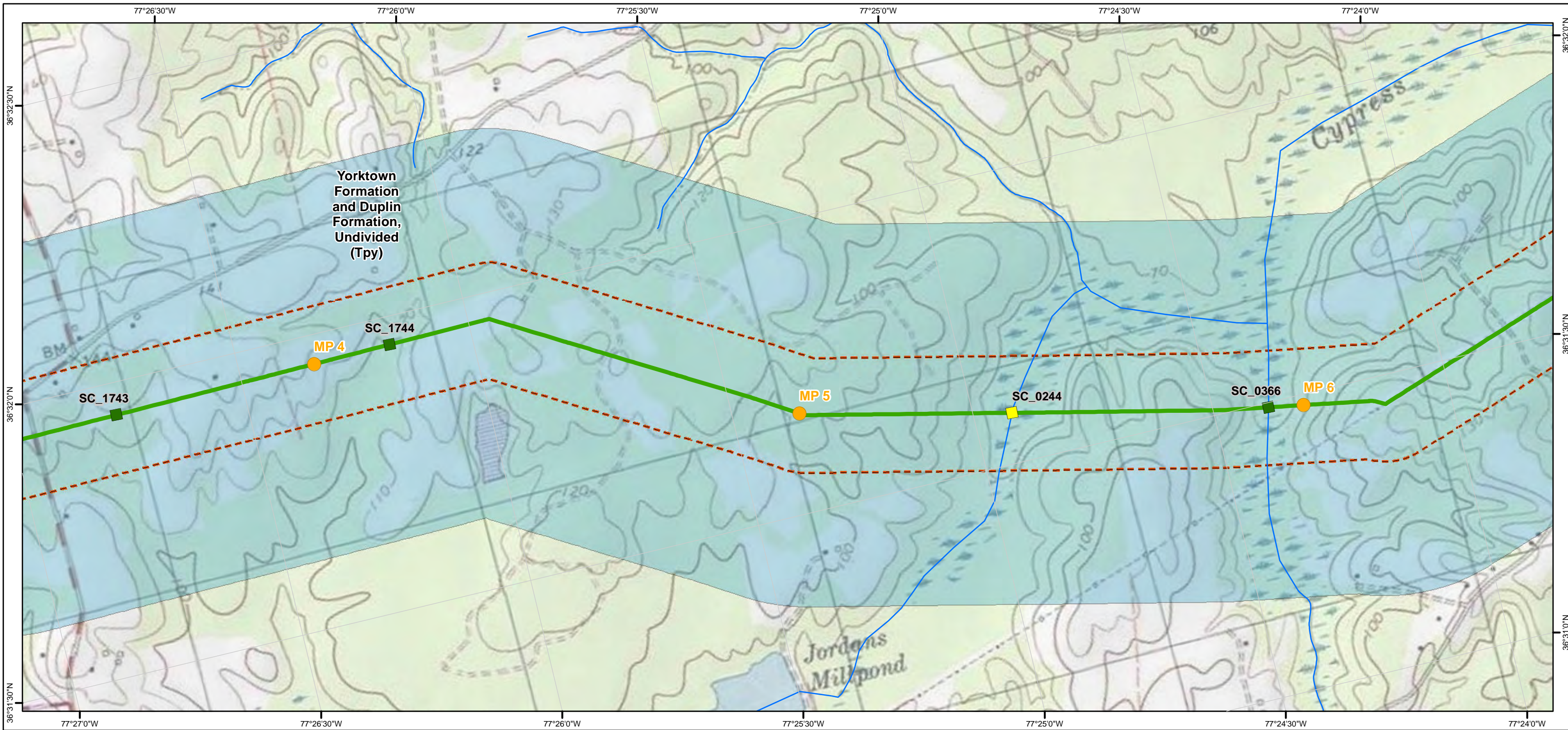
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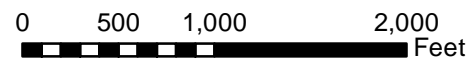


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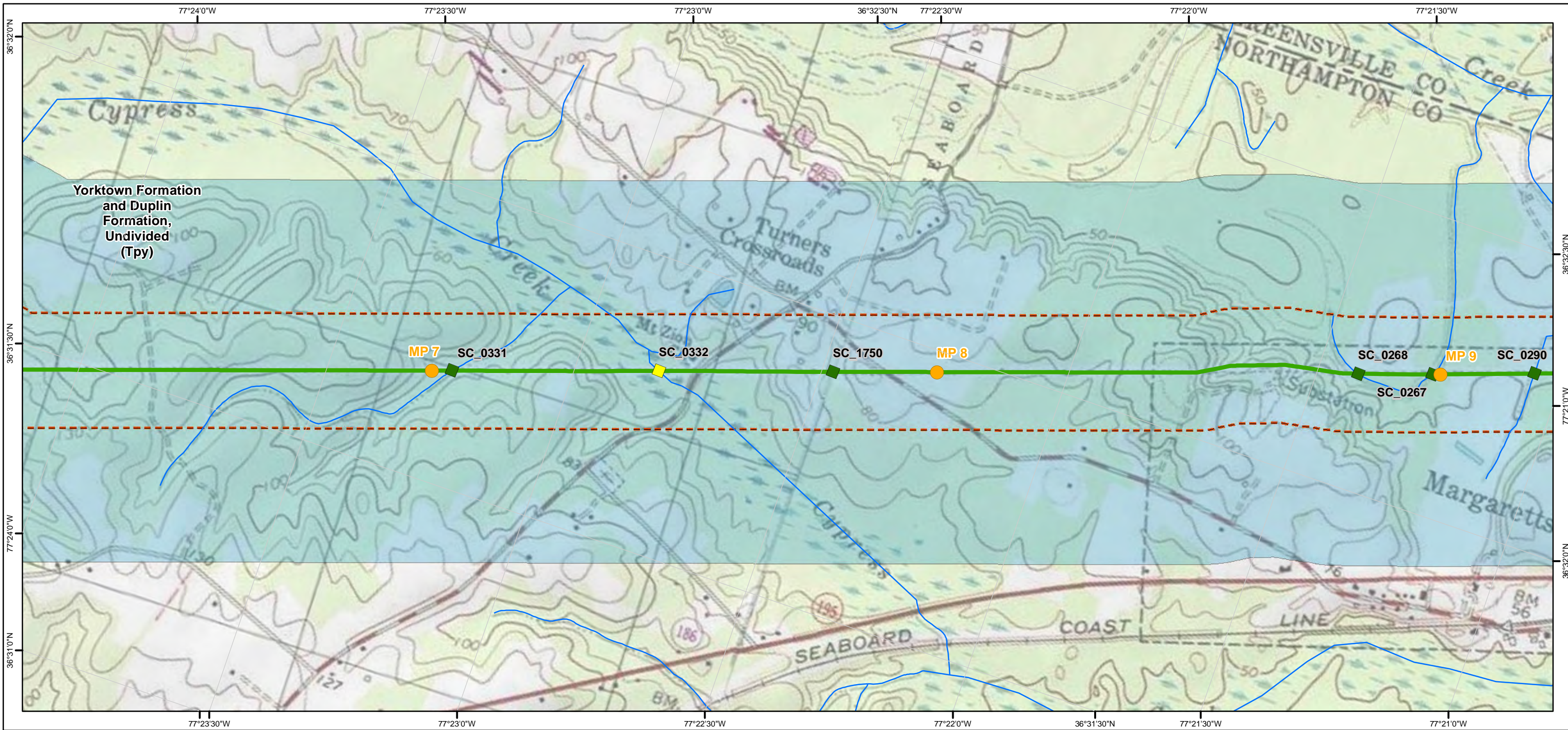
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**Dominion**  
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**TESSE**  **ATIONS**

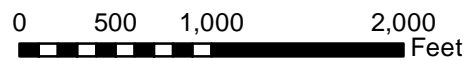


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 190 of 216

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### Document Information:

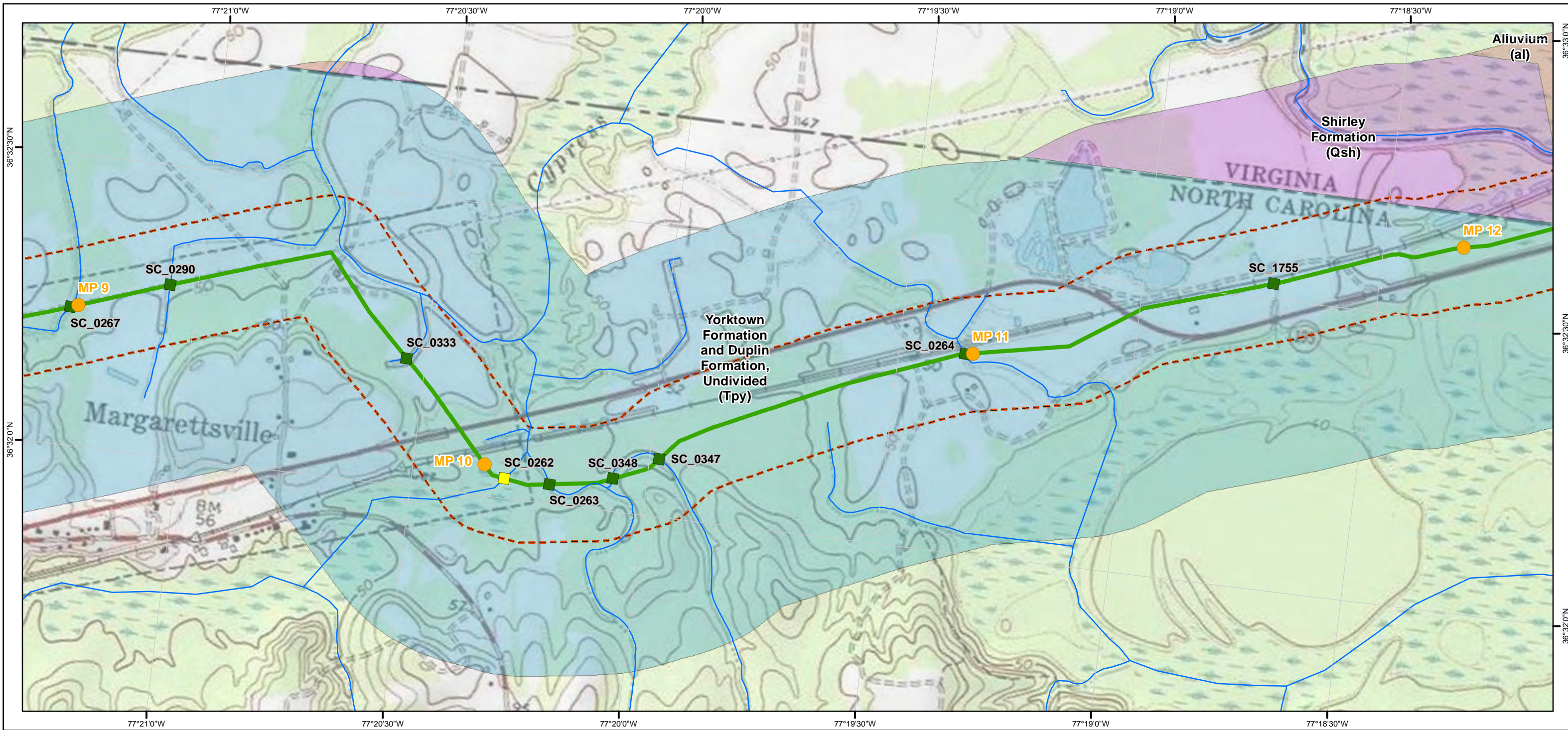
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Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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Feet



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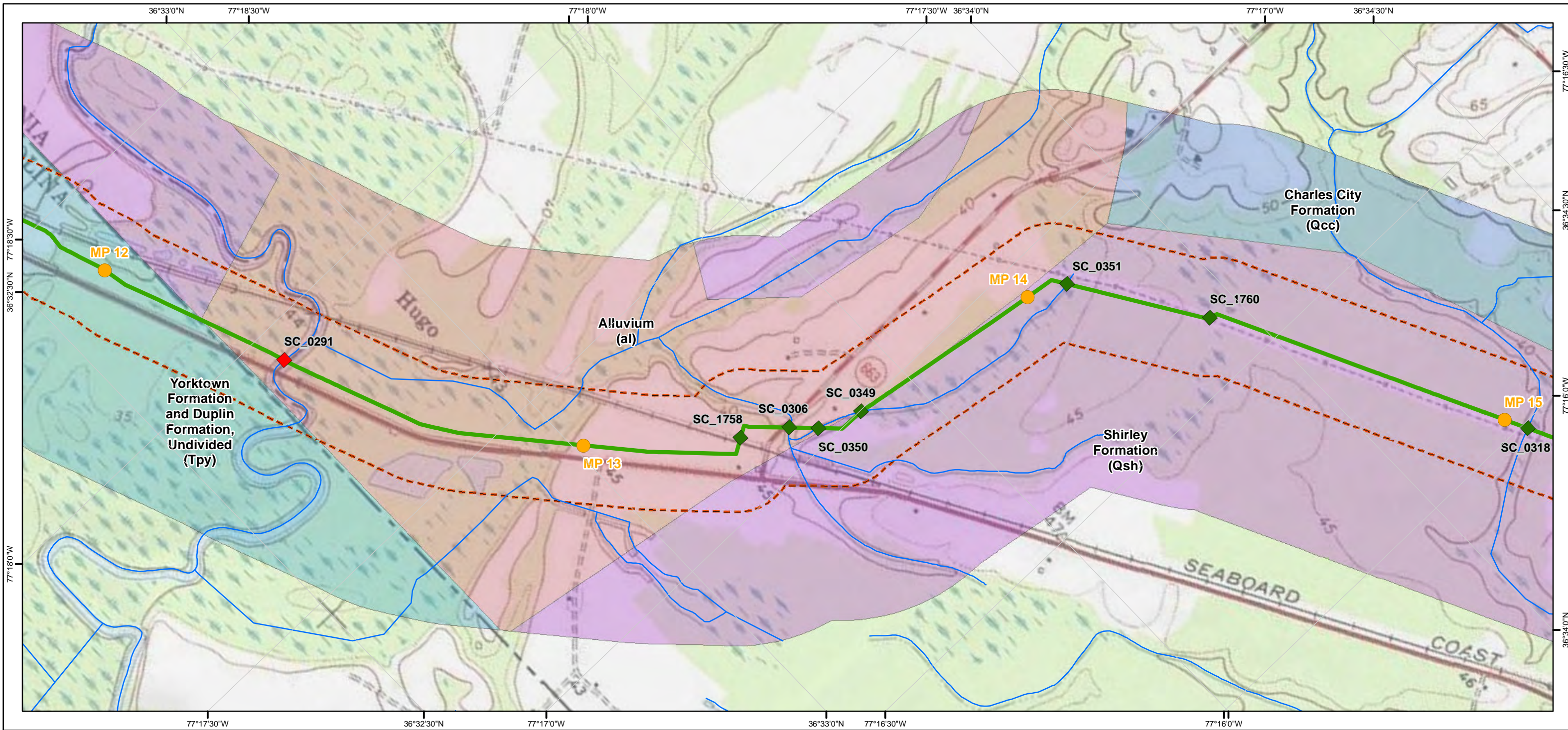
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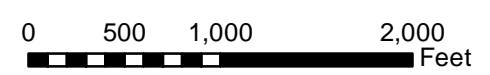


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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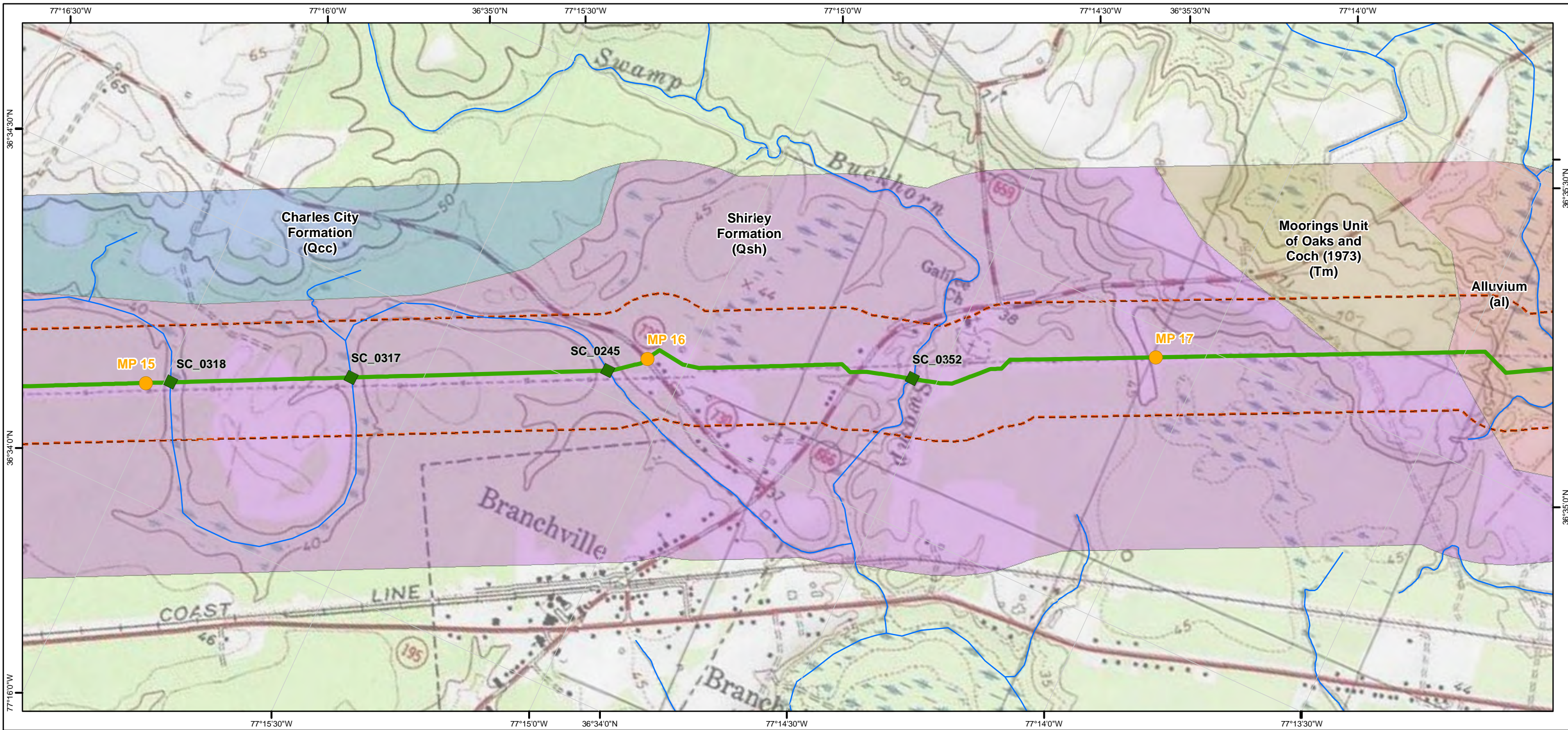
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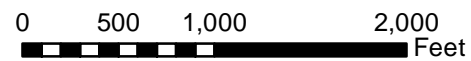


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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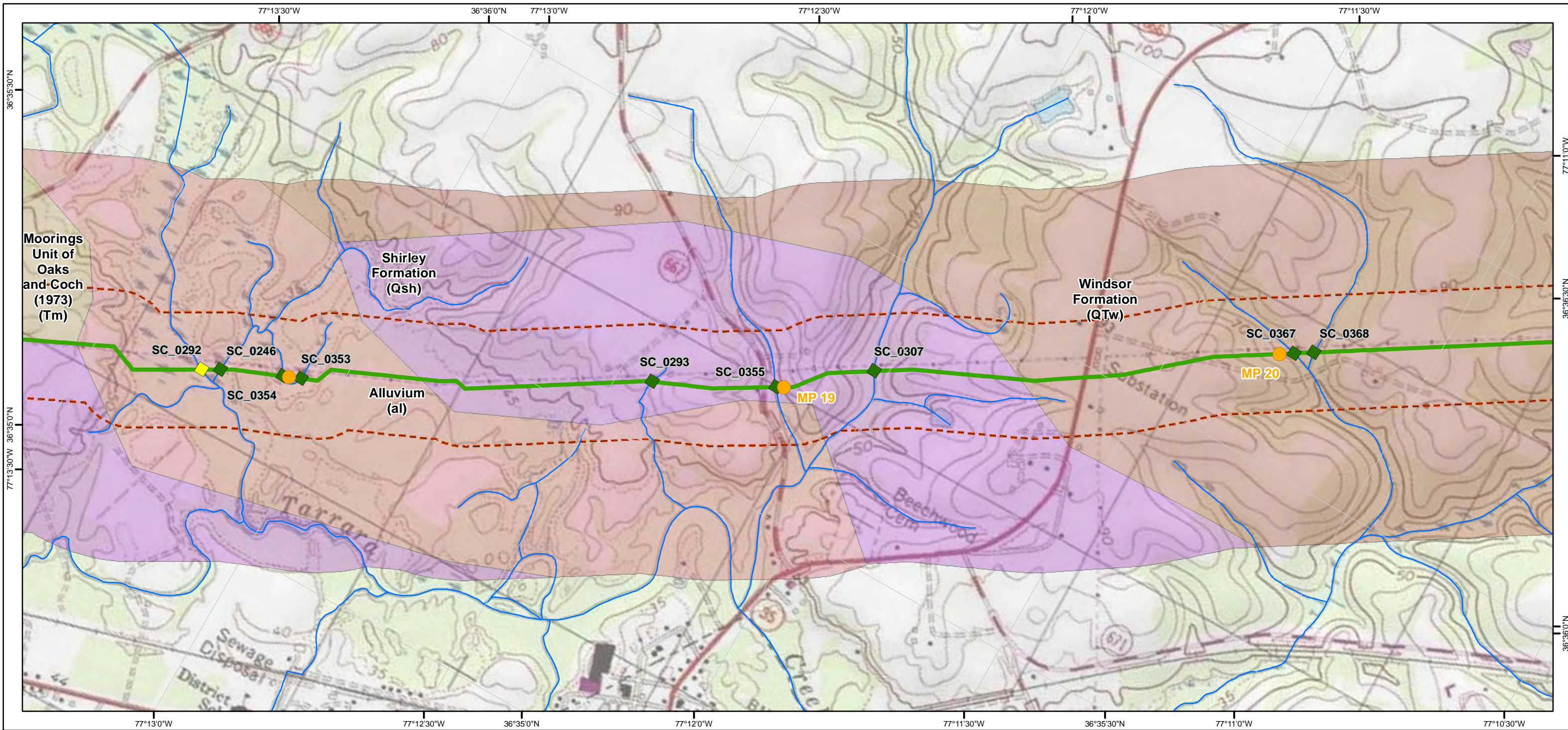
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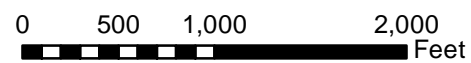


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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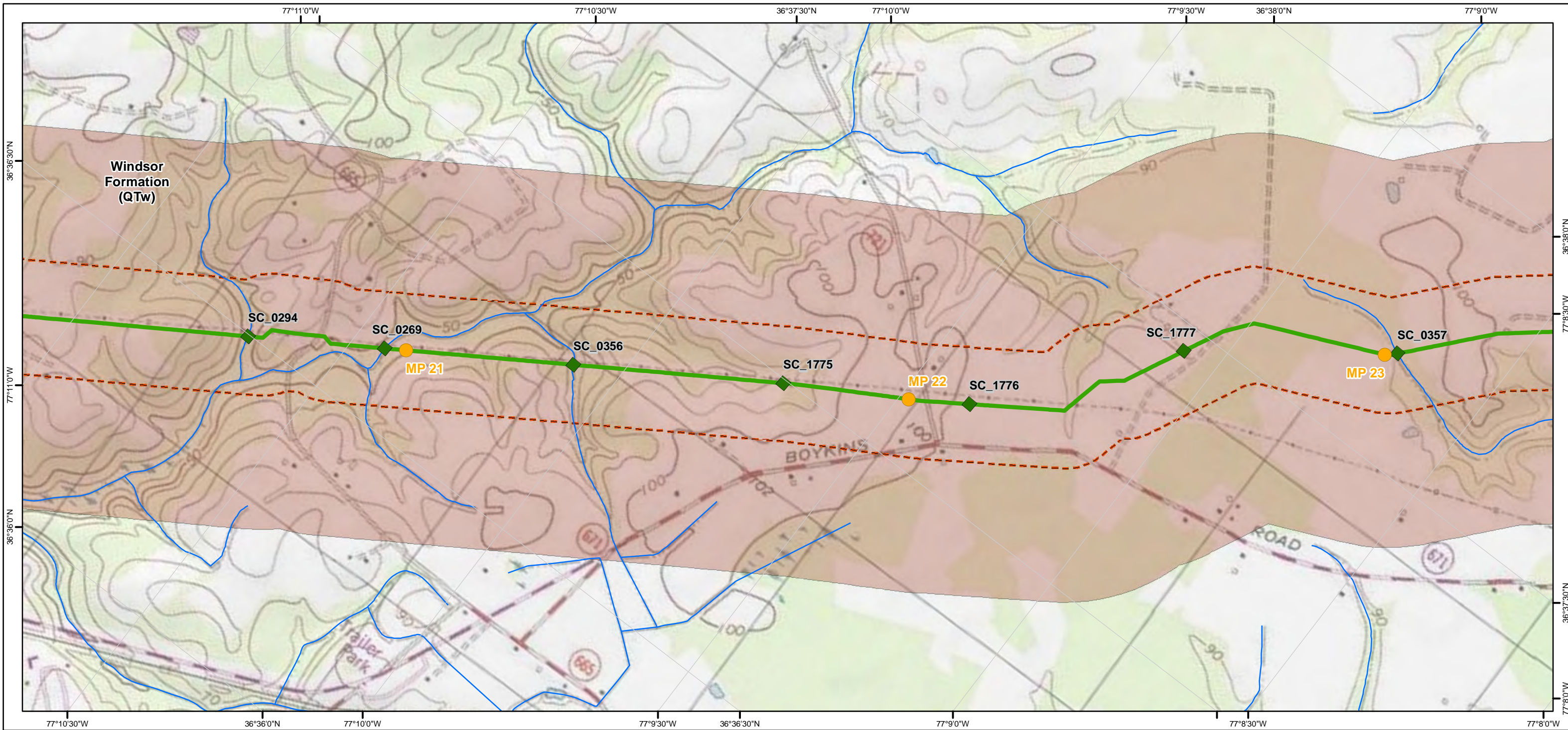
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**Dominion**  
**Geosyntec**  
 consultants  
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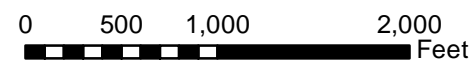


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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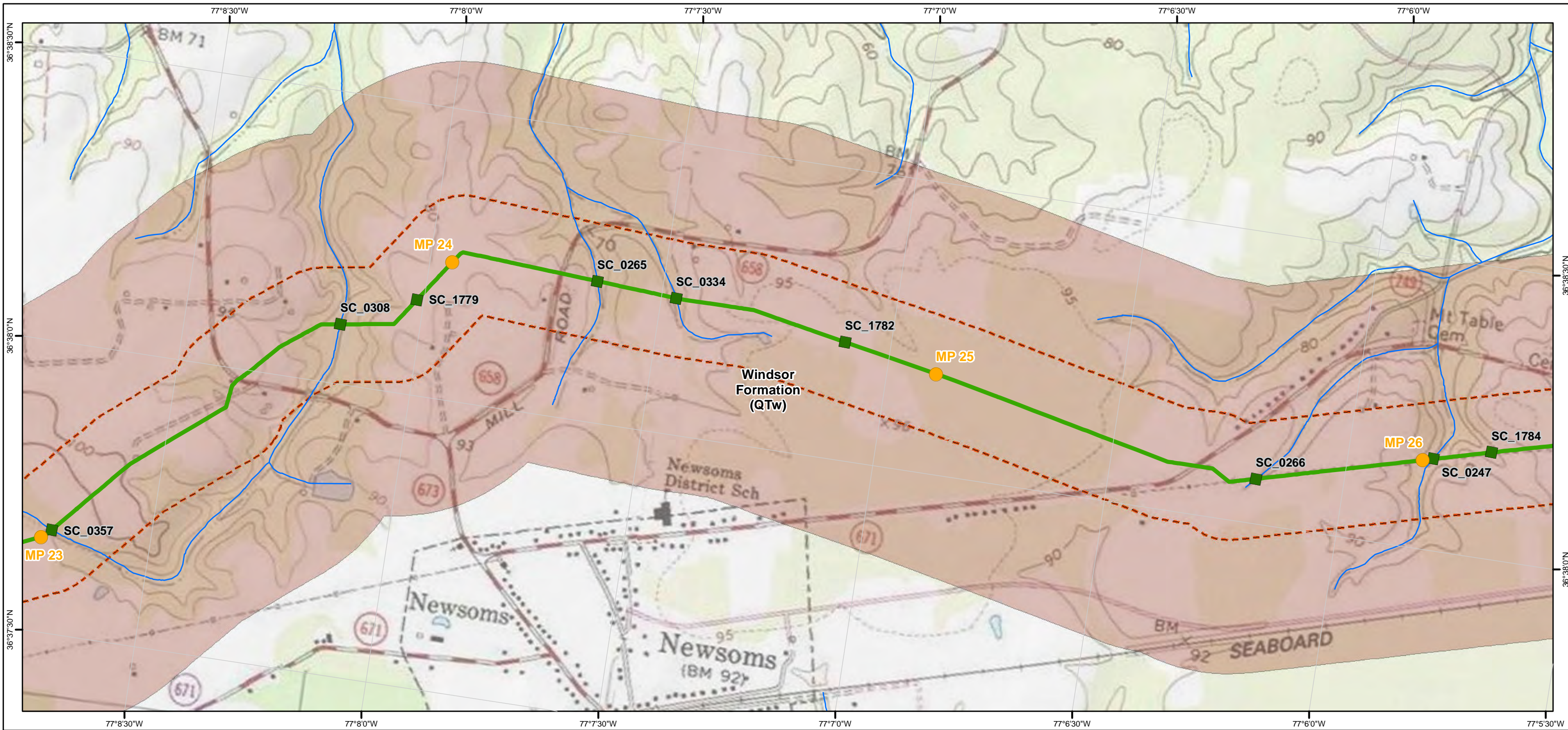
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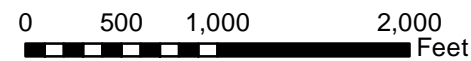


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

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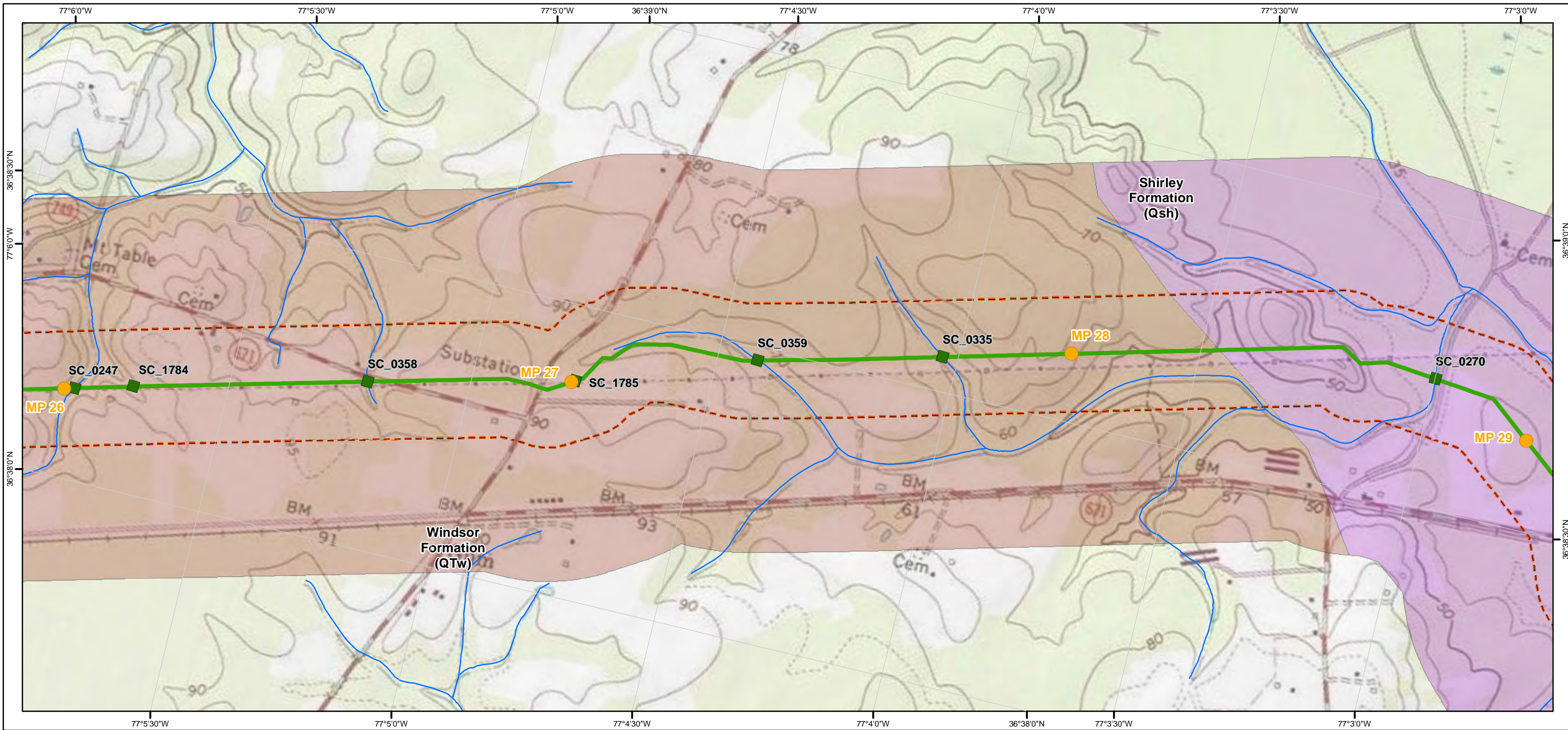
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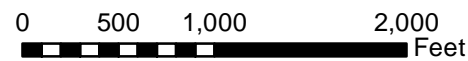


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 197 of 216

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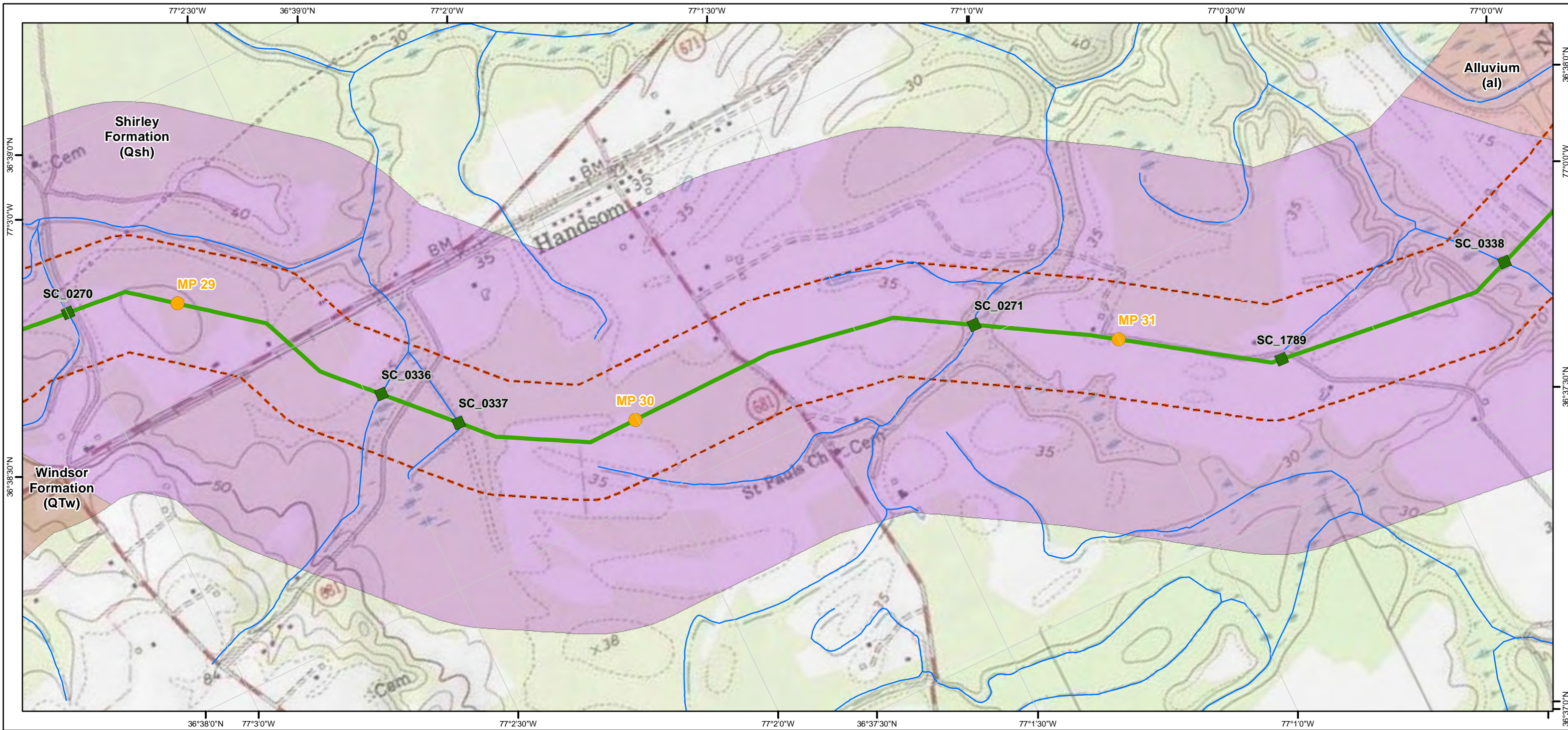
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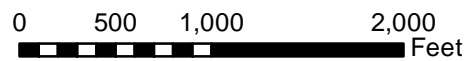


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Sheet 198 of 216

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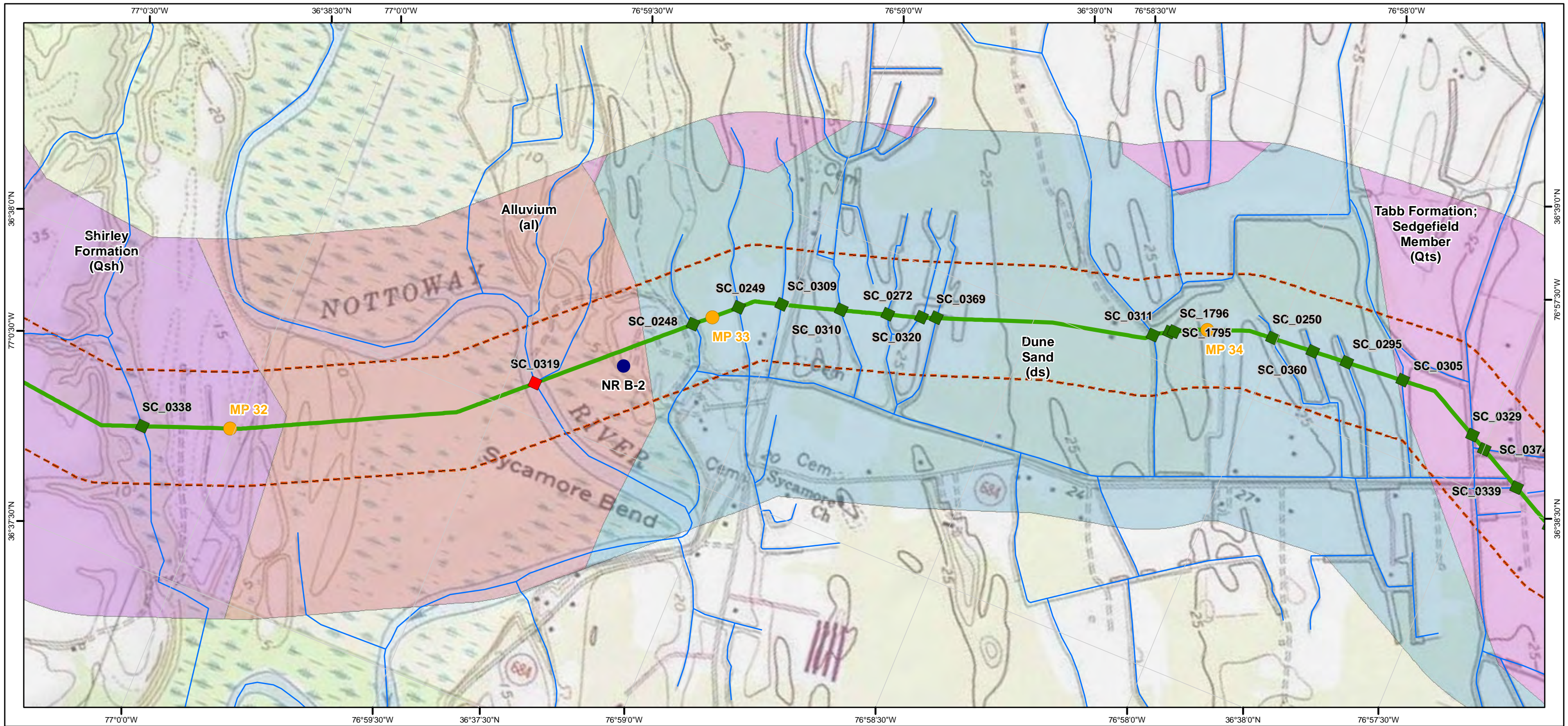
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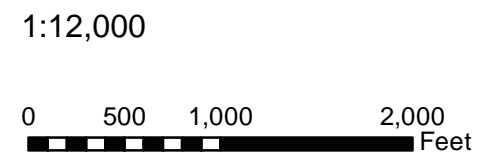




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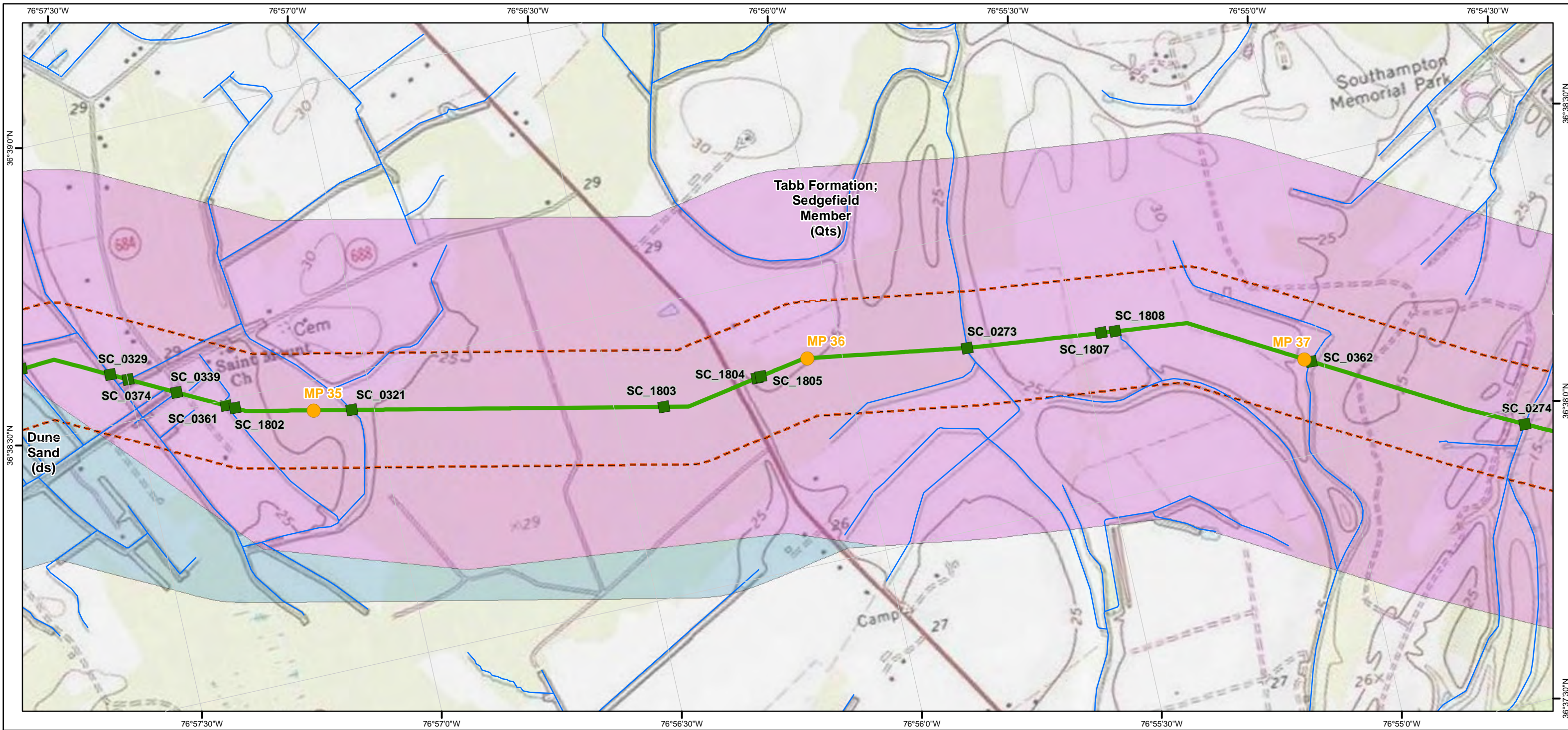
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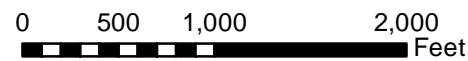


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 200 of 216

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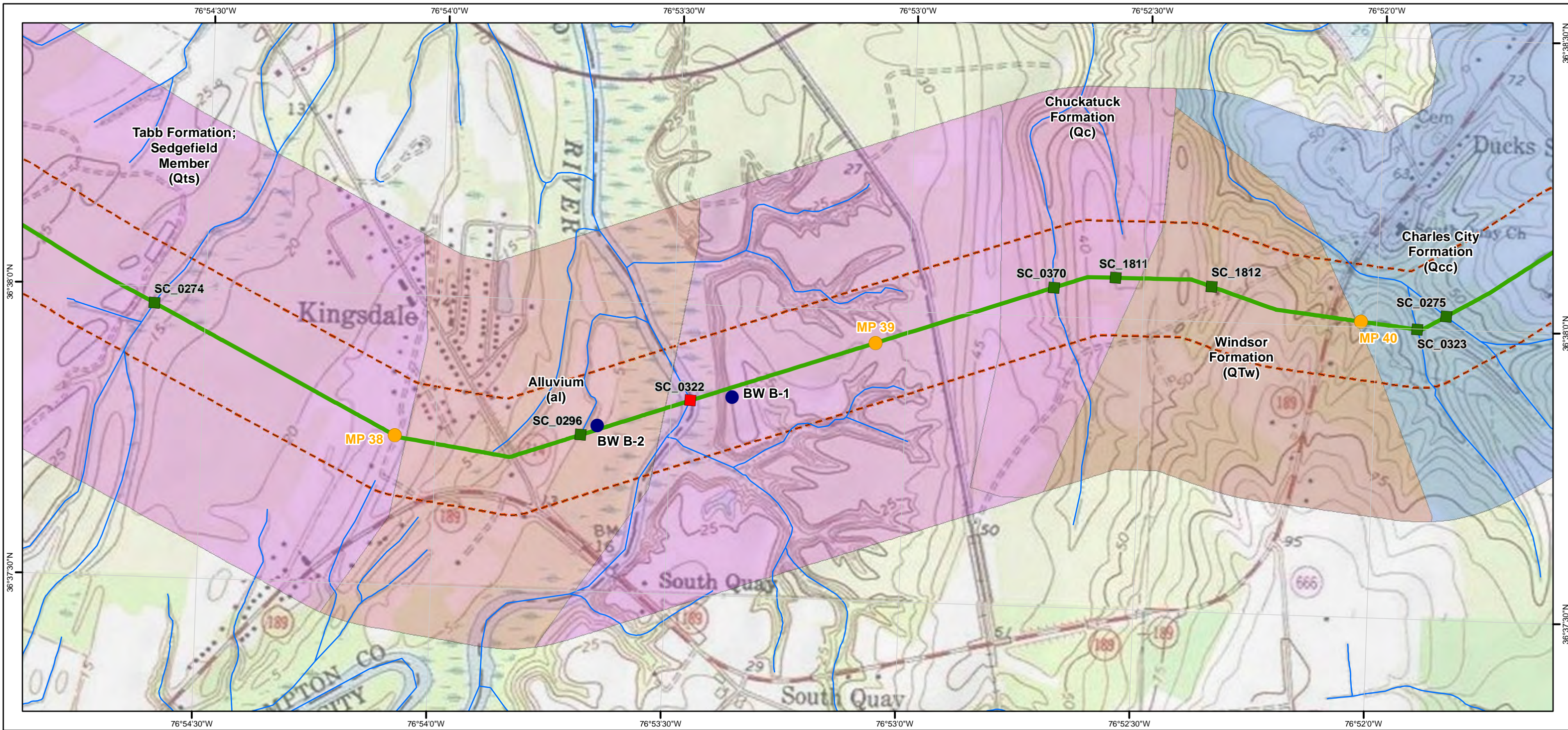
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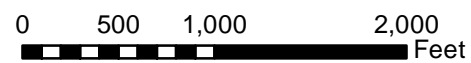


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Sheet 201 of 216

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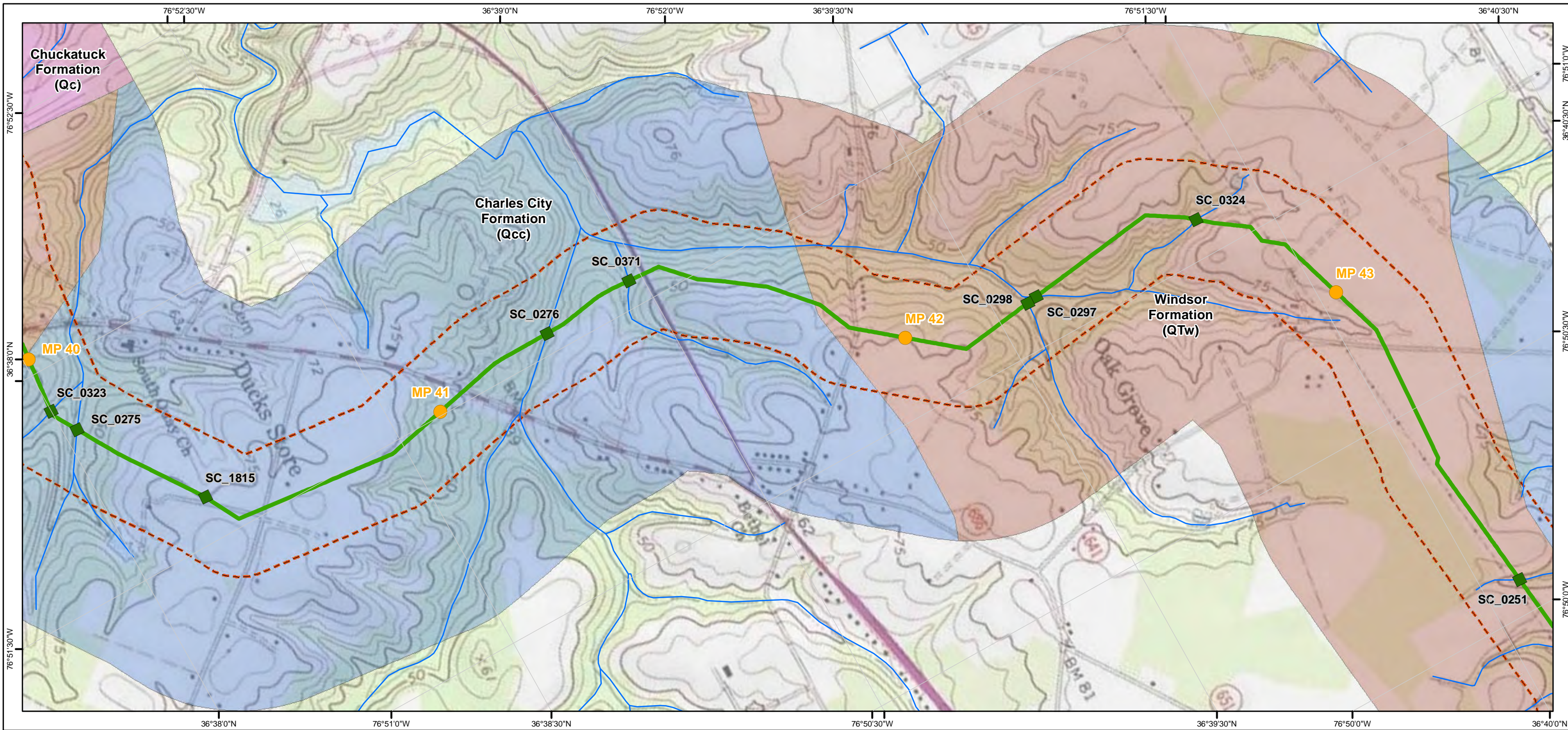
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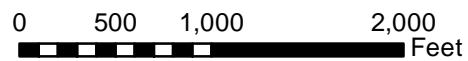


- Legend**
- Hydrotechnical Hazards**
- High
  - Moderate
  - Low
- Potential Slope Instability Hazards**
- High
  - Moderate
  - Low
- Slope Inclination Along Route Centerline**
- > 58% (Extremely Steep)
  - 40.01% - 58% (Very Steep)
  - 30.01% - 40% (Moderately Steep)
  - < 30% (Gentle)
- Other Symbols:**
- Mileposts
  - Boreholes
  - Steep Slope Hazard Site
  - Faults
  - NHD Streams
  - 600 ft buffer either side of centerline

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 202 of 216

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**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

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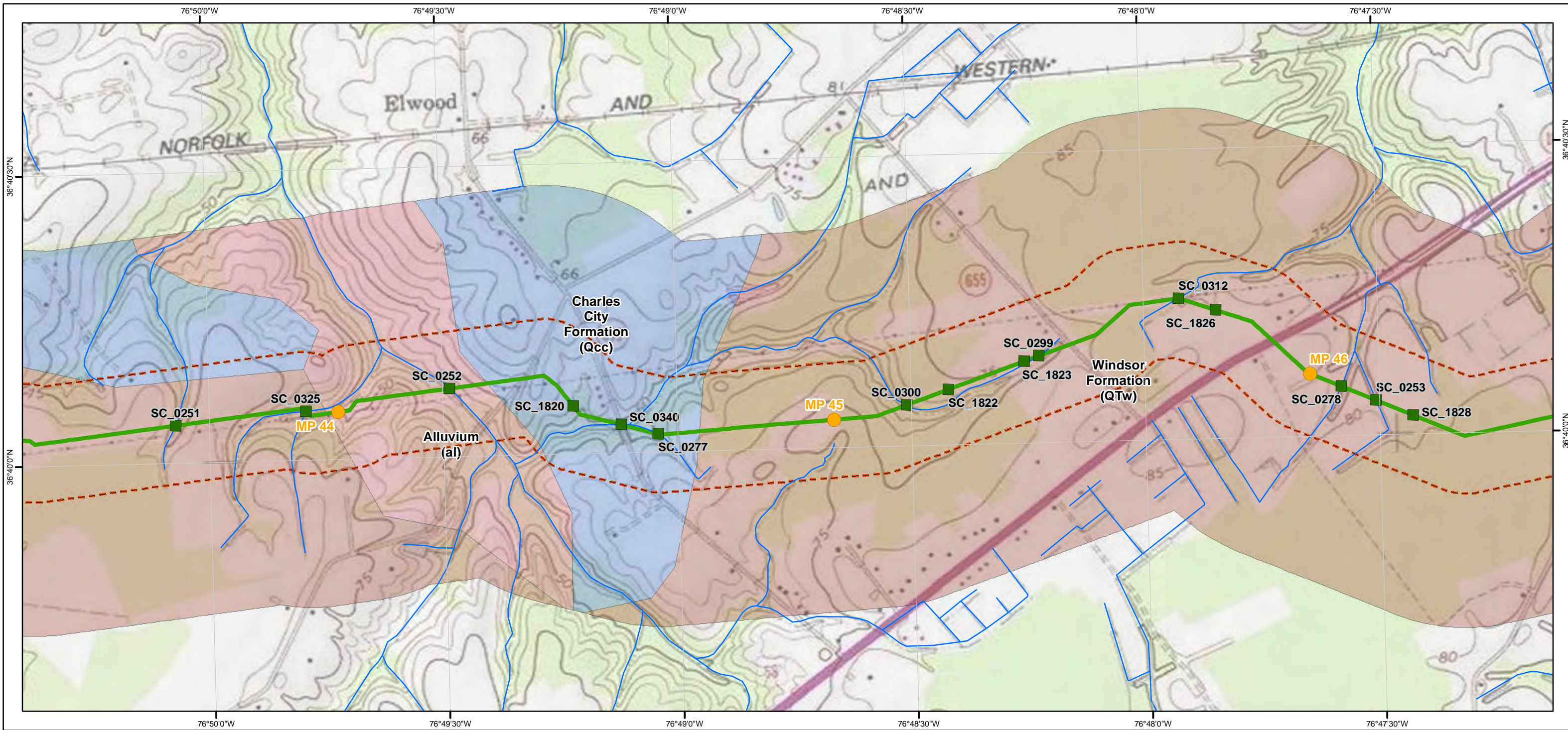


Dominion

Geosyntec

consultants

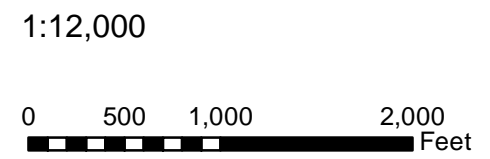
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 203 of 216



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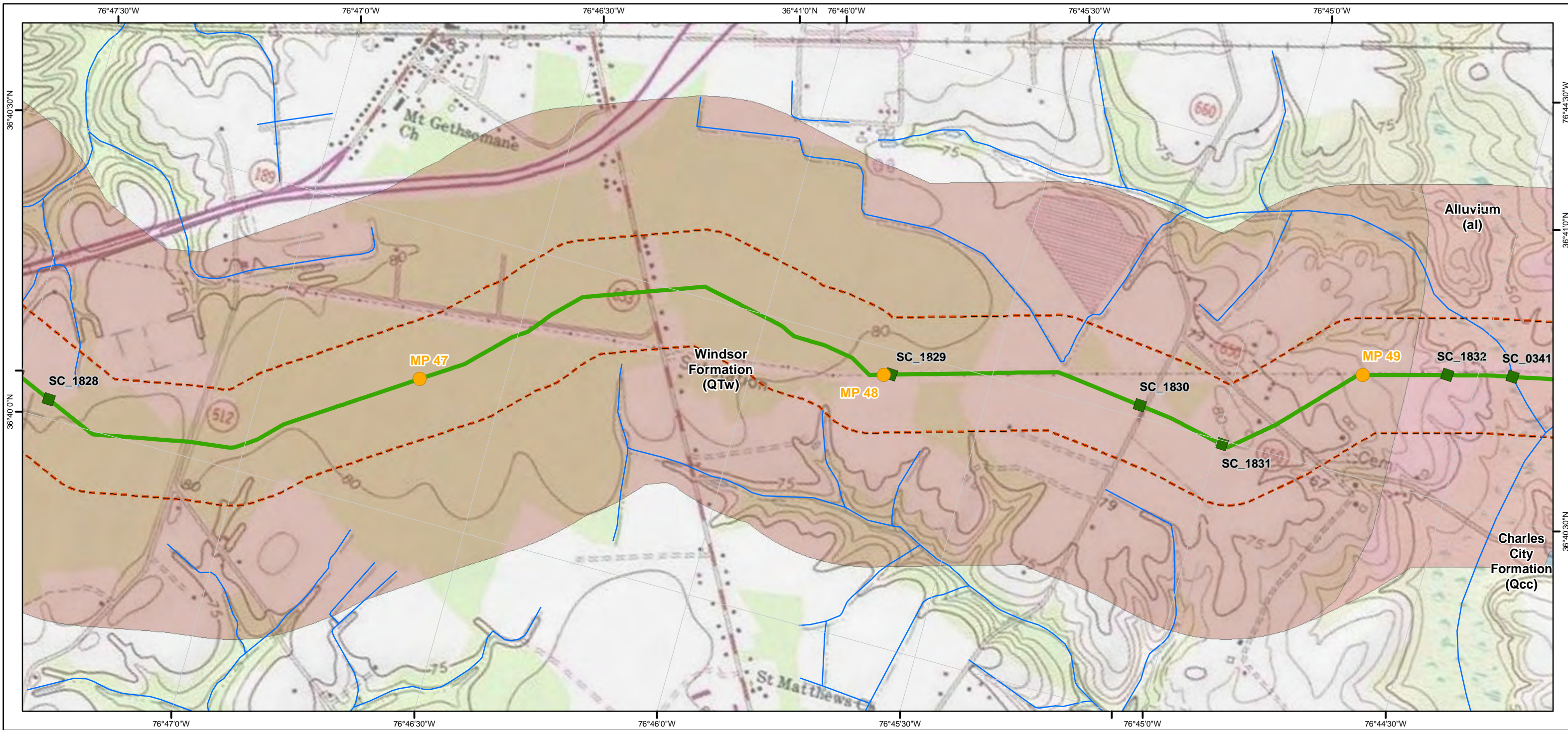
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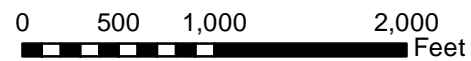


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Sheet 204 of 216

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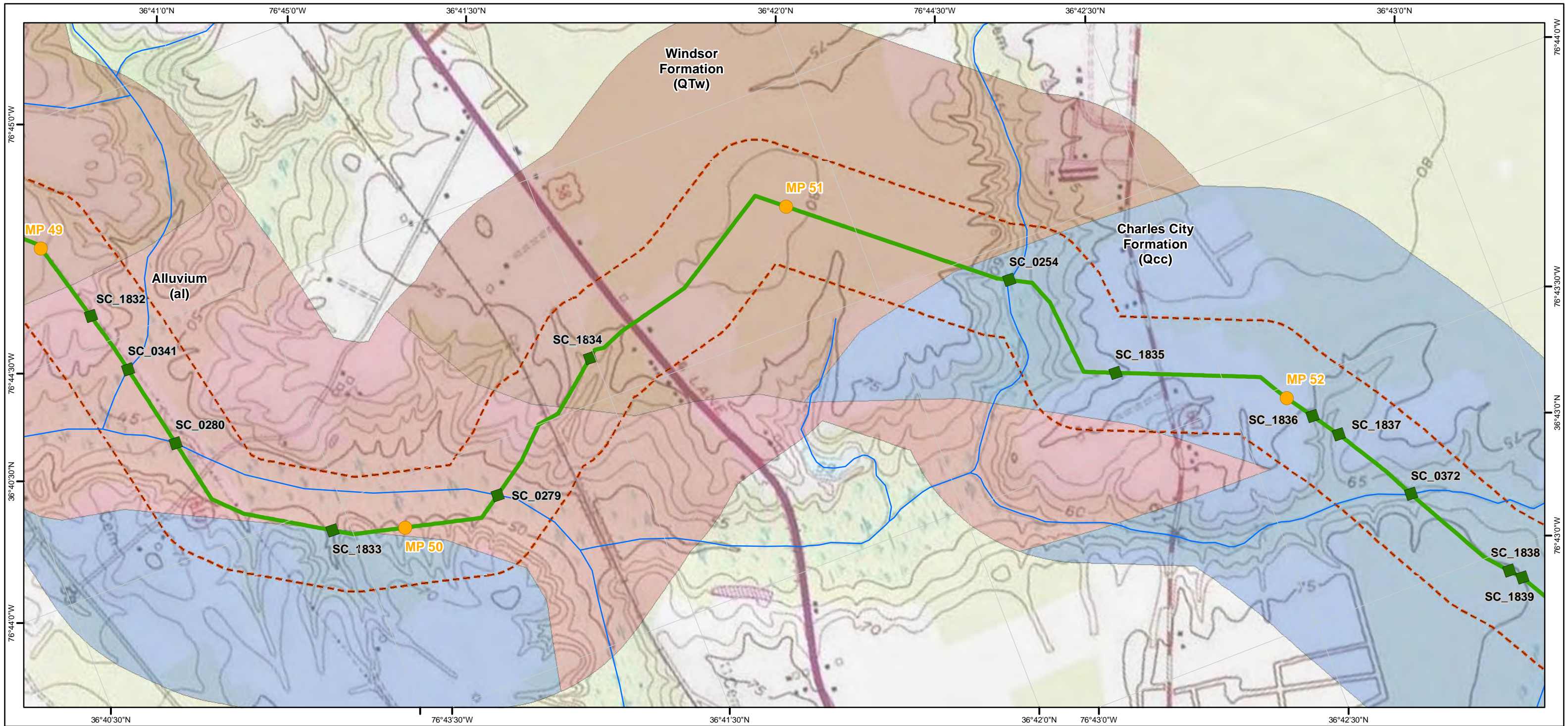
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CORPORATION

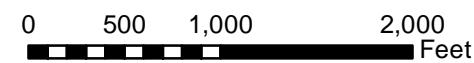


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Sheet 205 of 216

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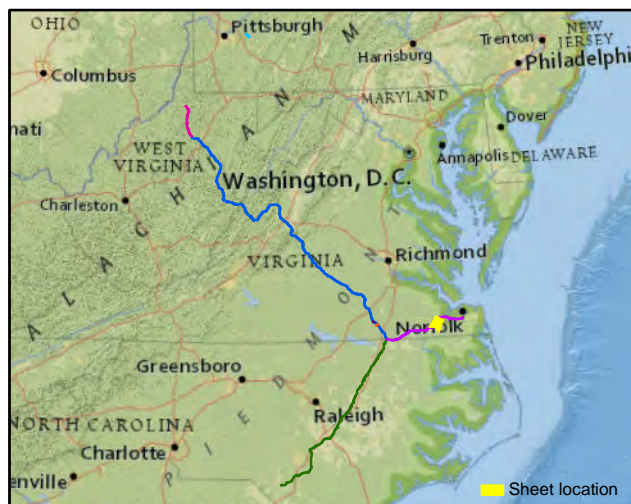
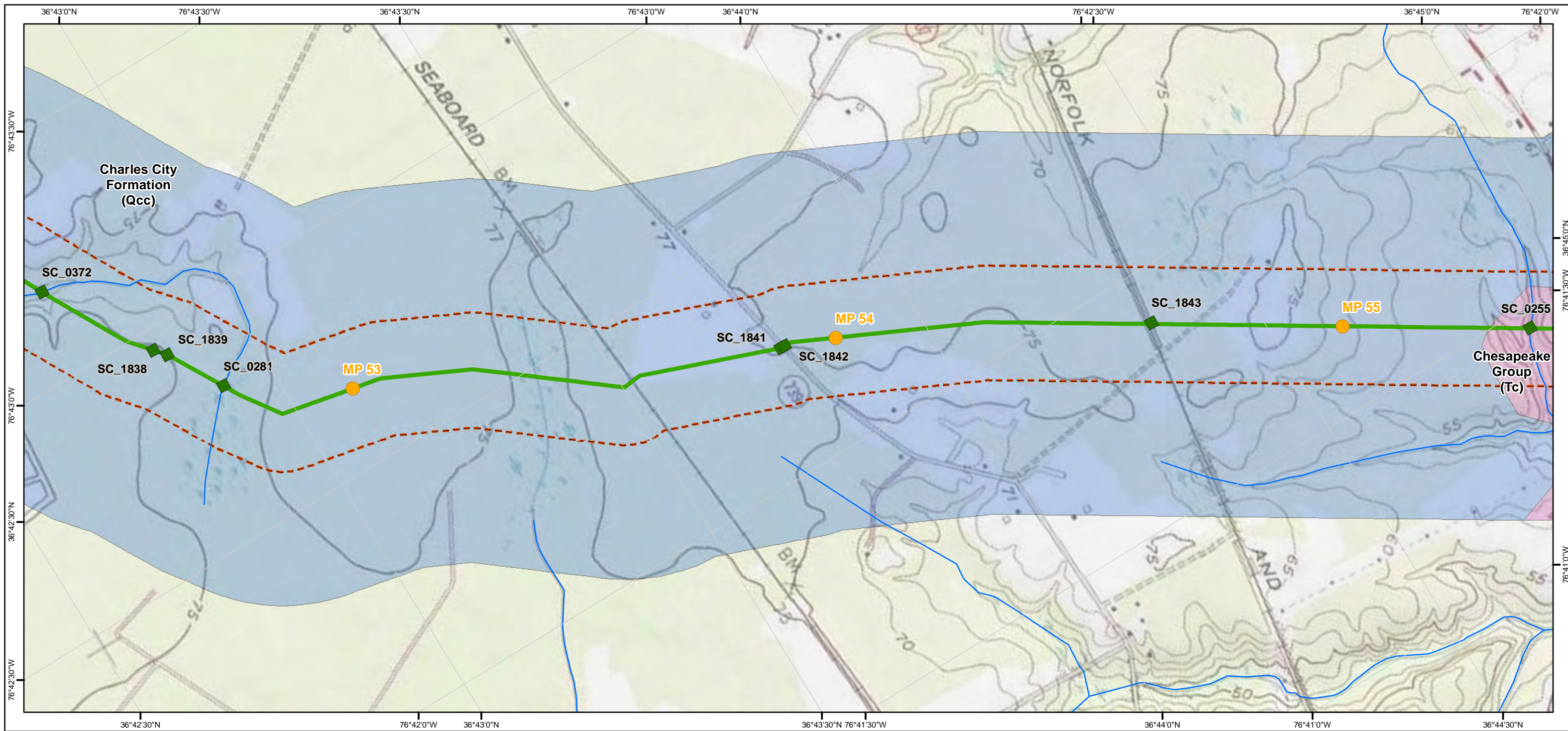
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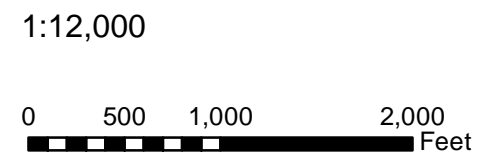




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Sheet 206 of 216



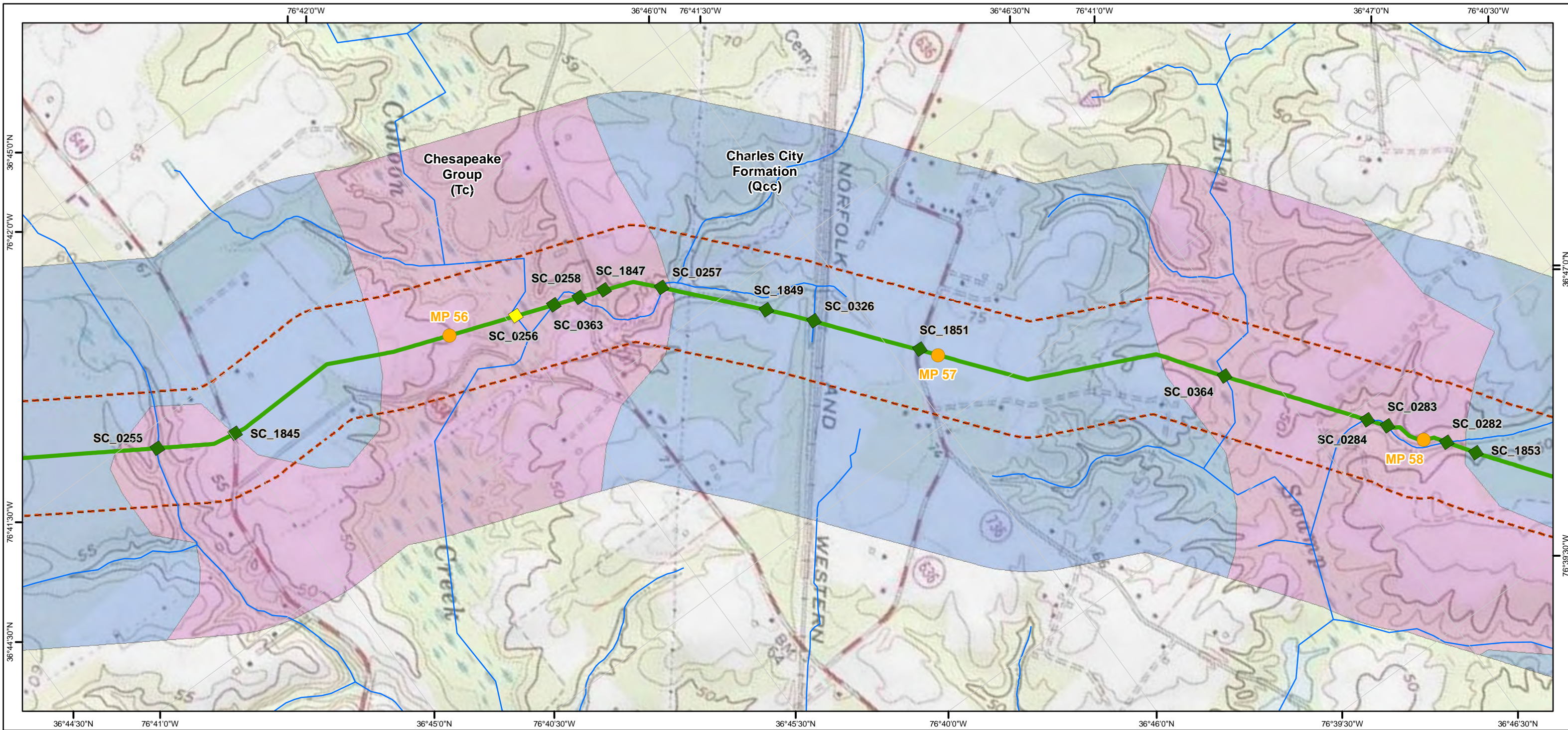
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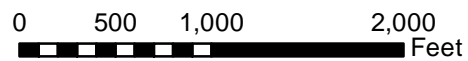


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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 207 of 216

1:12,000



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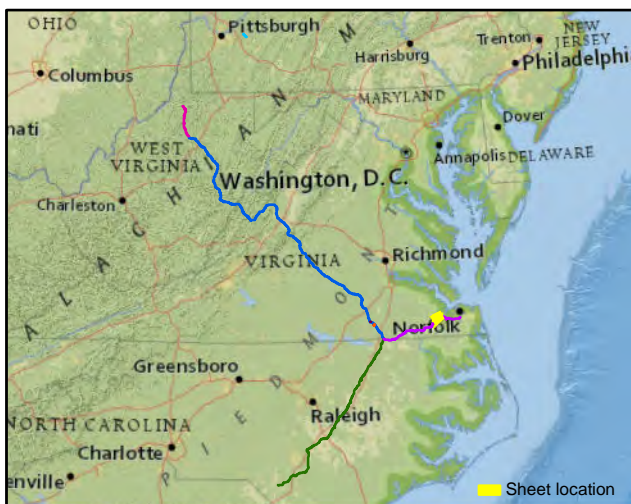
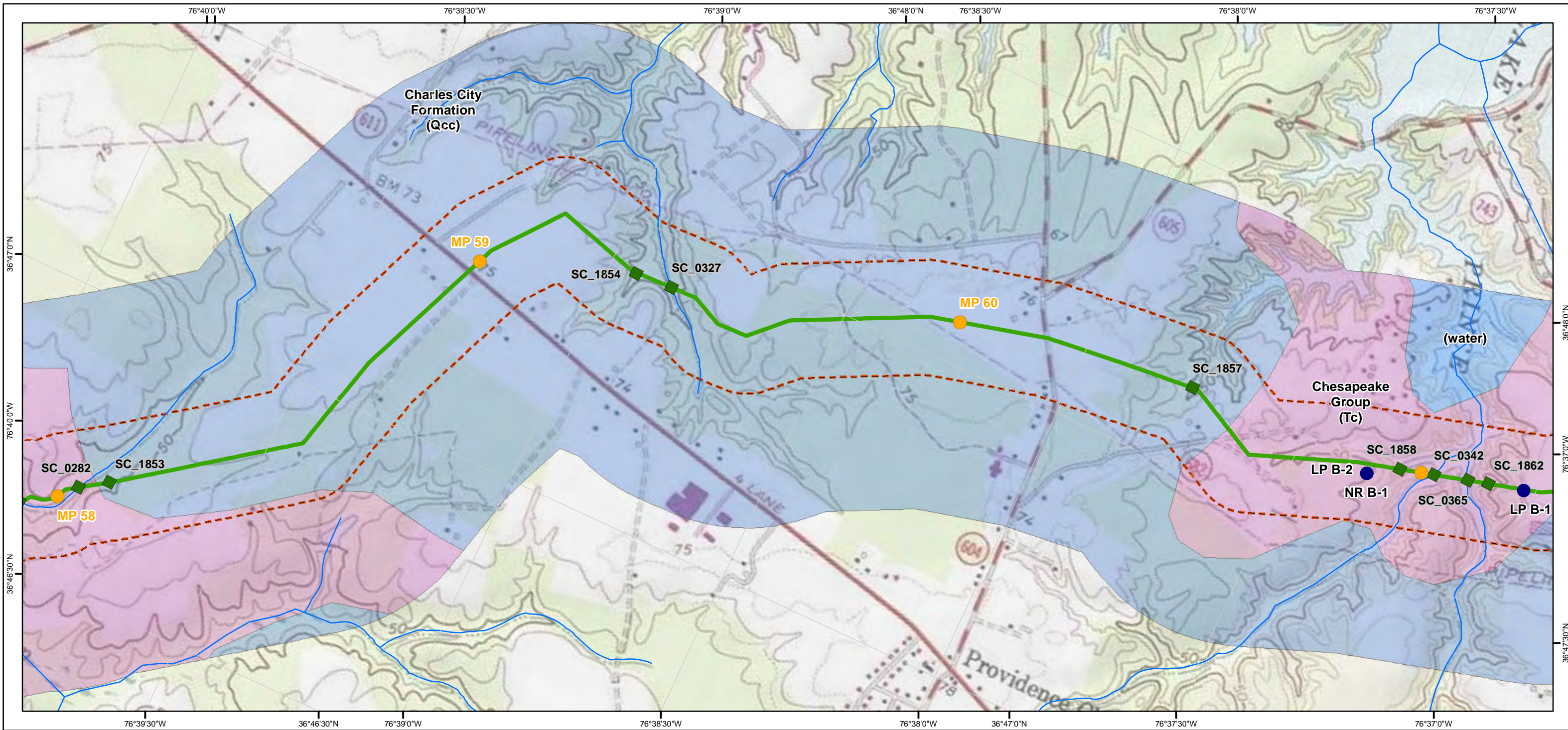
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 208 of 216

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0 500 1,000 2,000  
Feet



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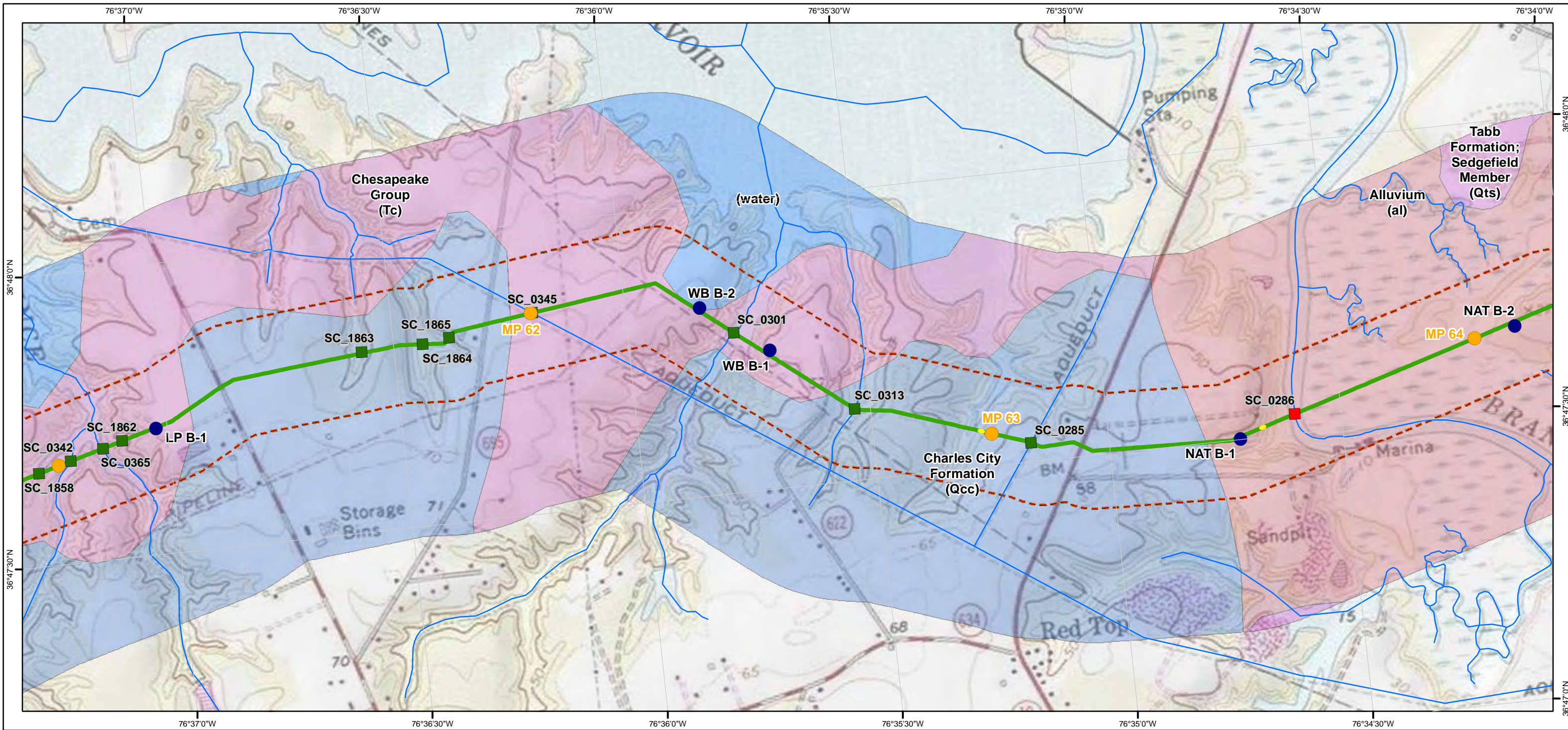
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**Geosyntec**  
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**TESSE**  **ATIONS**

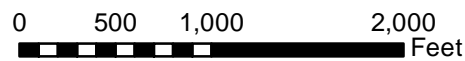


- Legend**
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# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 209 of 216

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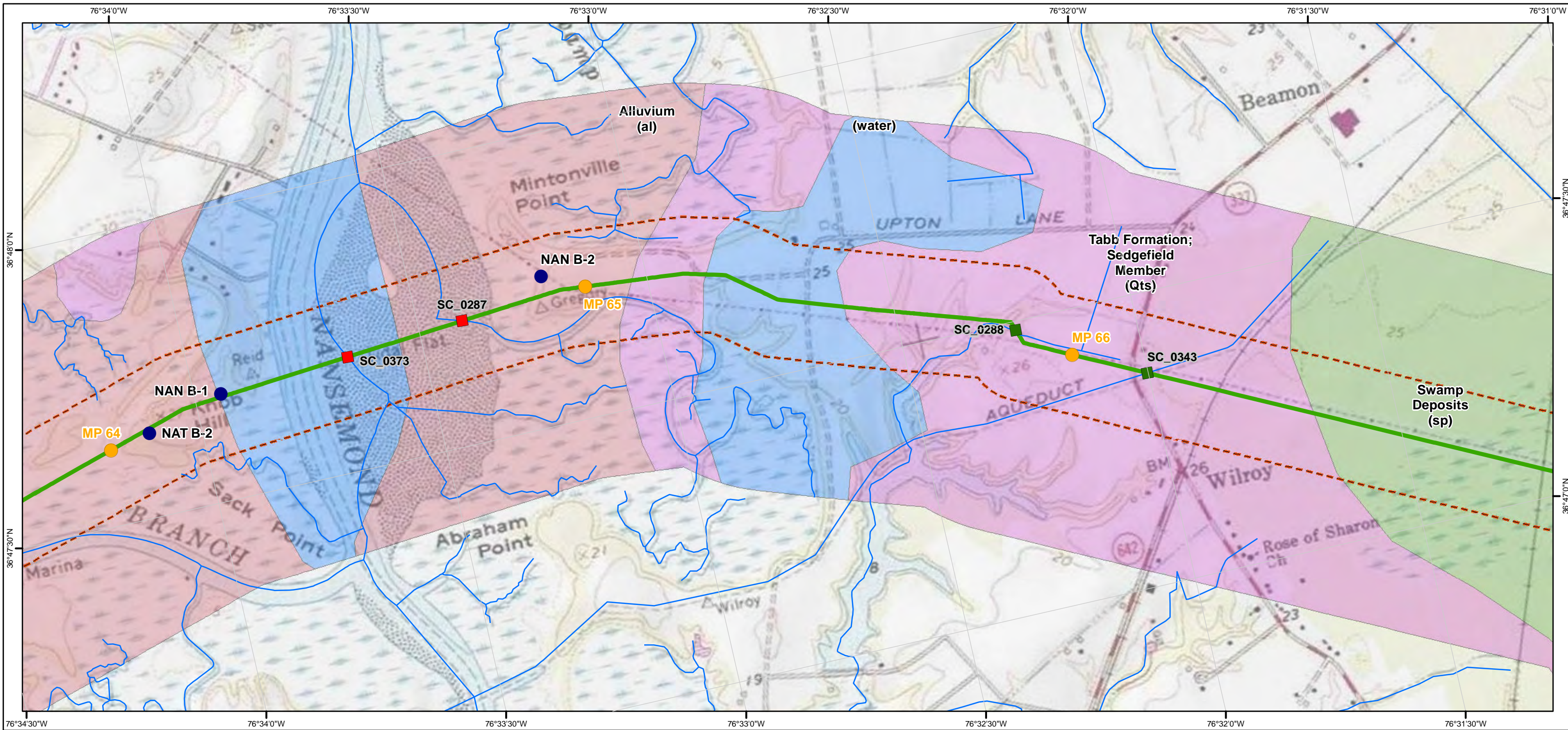
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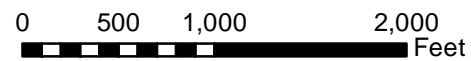


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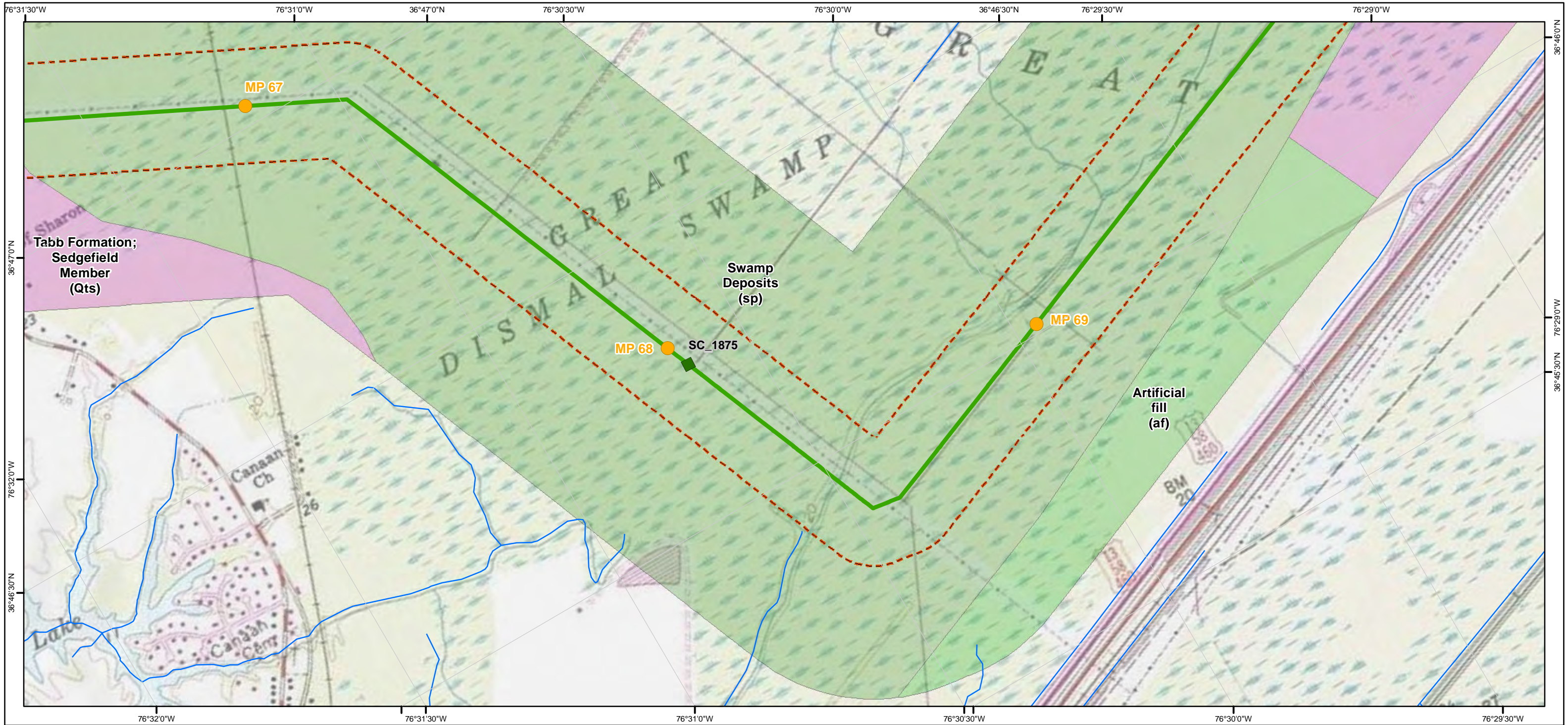


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**Legend**

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### Sheet 211 of 216

1:12,000

0 500 1,000 2,000 Feet

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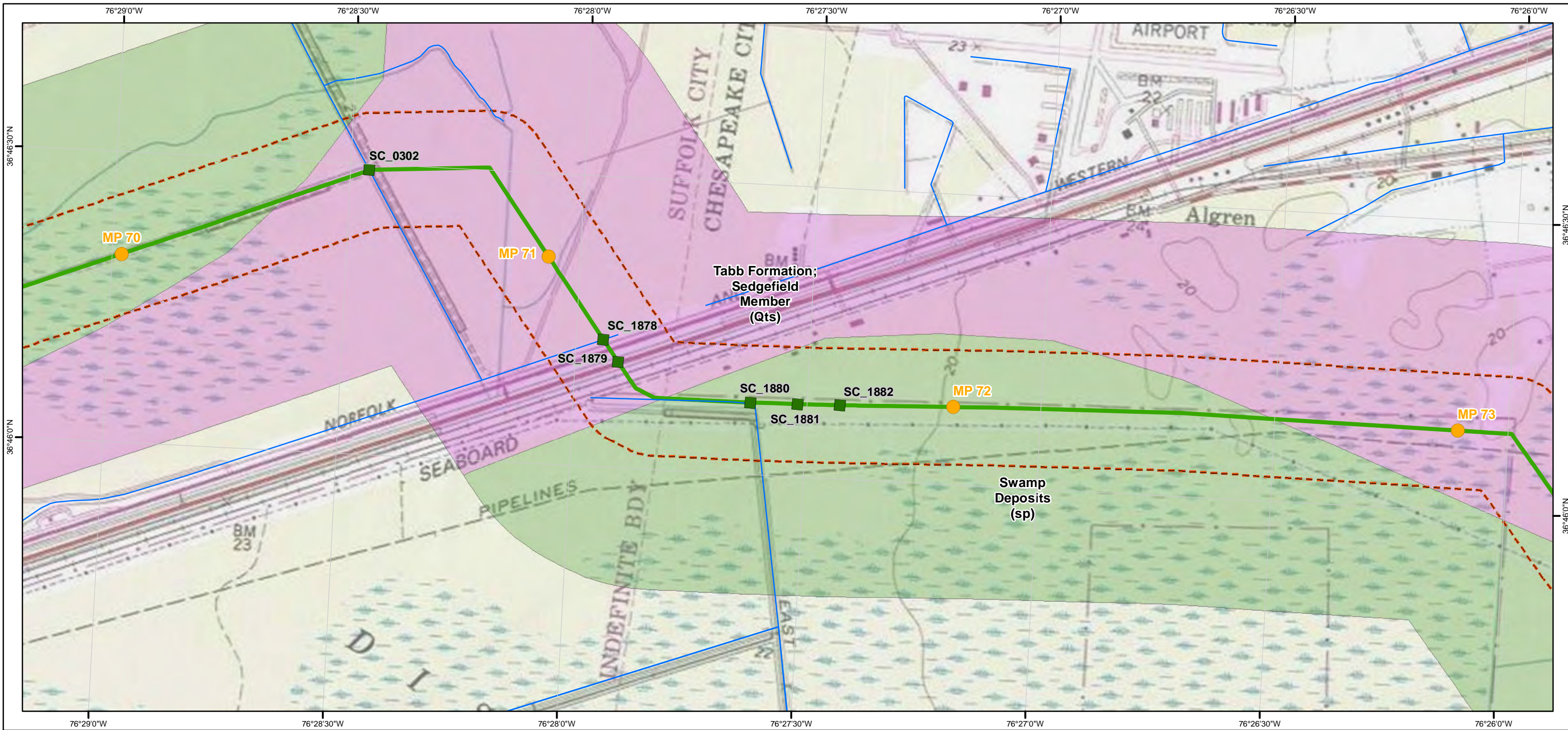
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consultants

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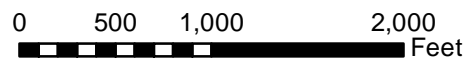


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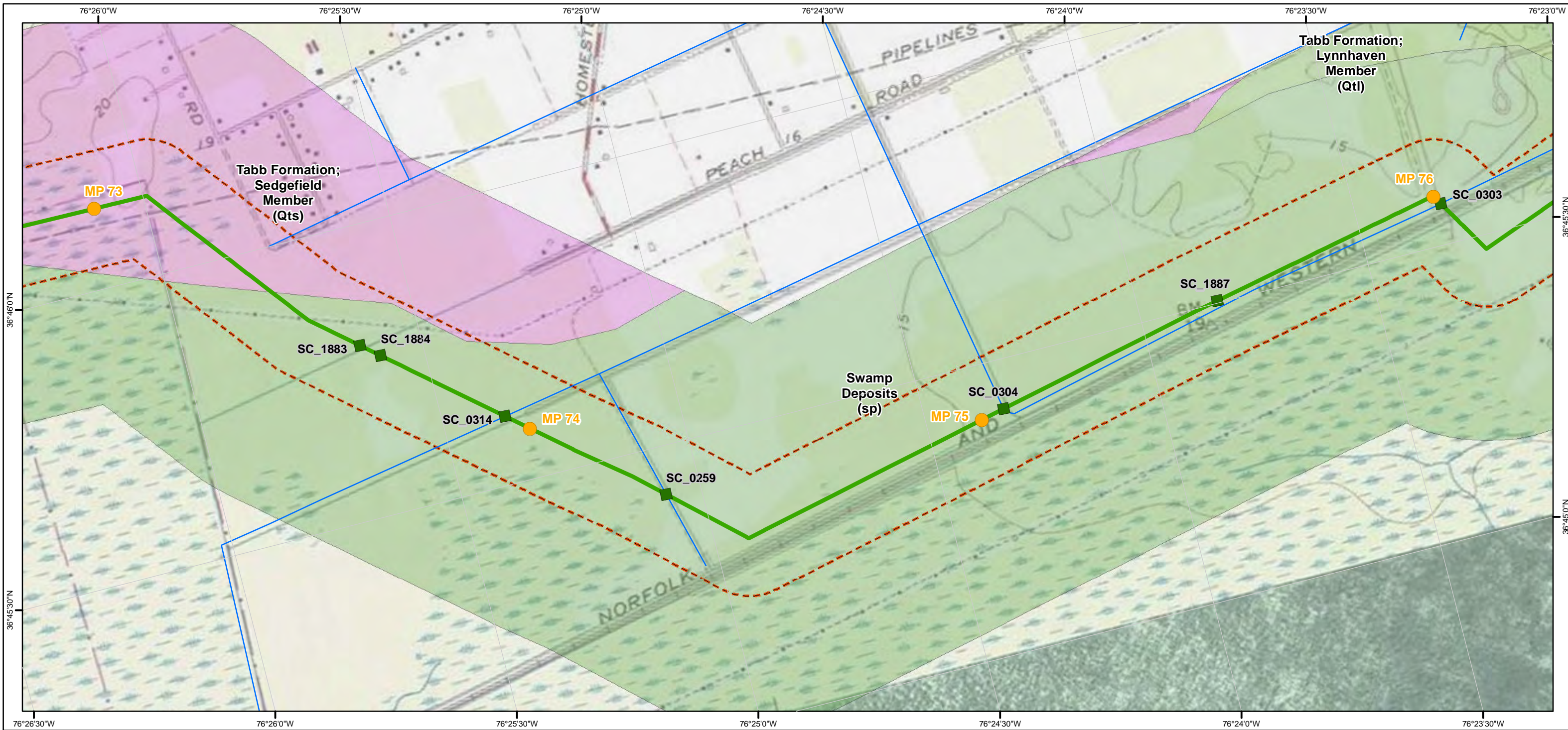
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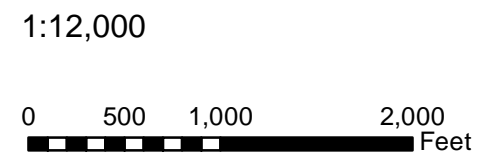




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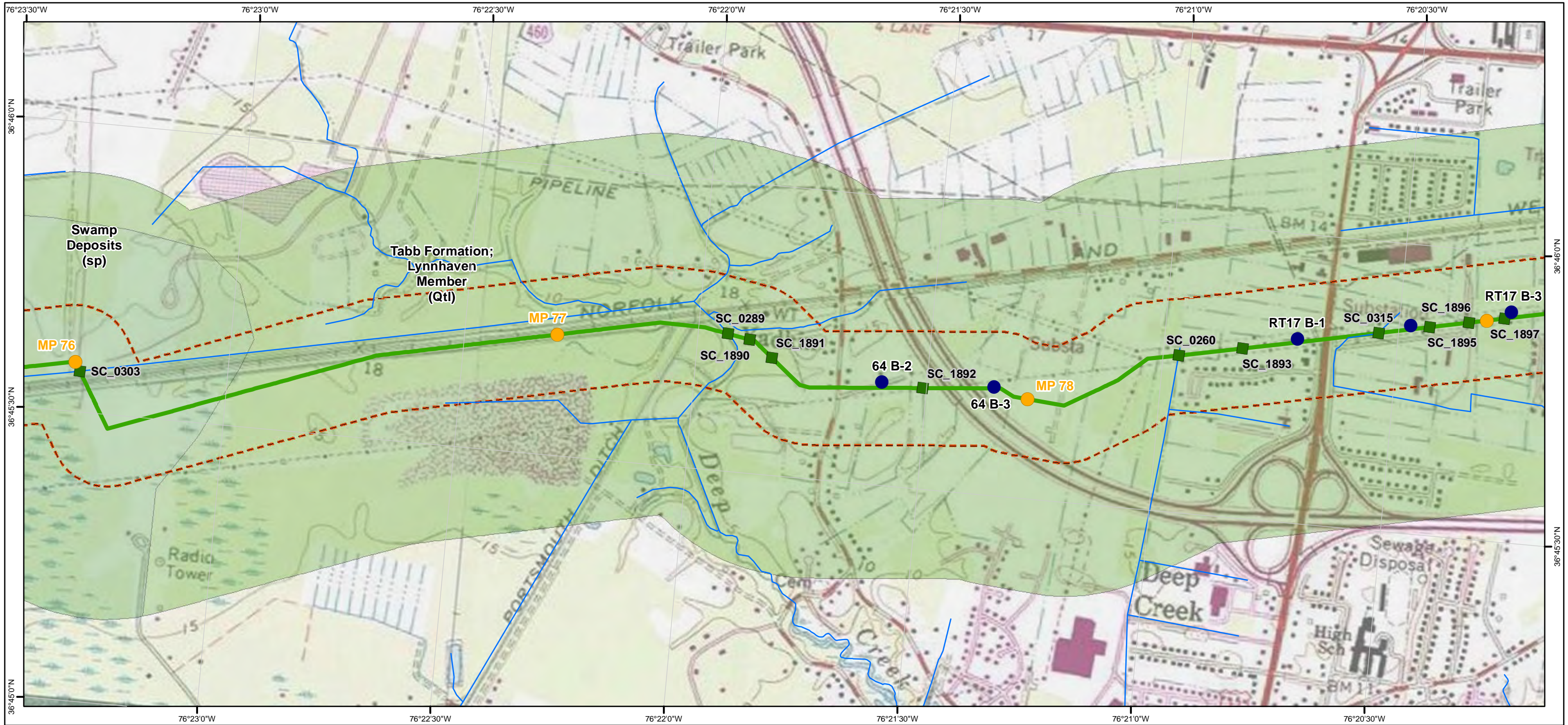
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  - 4) Borehole data provided by JD Hair and Associates
  - 5) Potential Slope Hazard mapping is preliminary. The presence, extent, nature and ranking of potential slope hazards is the subject of ongoing analysis and subject to change as this work proceeds.
  - 6) Geologic map data: North Carolina - Dicken et al. (2005a); Pennsylvania - Berg et al. (1980) and Miles et al. (2001); Virginia - Dicken et al. (2005b); West Virginia - Nicholson et al. (2005)
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**Dominion**  
**Geosyntec**  
consultants

**TESSE** **CONSULTATIONS**



**Legend**

**Hydrotechnical Hazards**

- High (Red square)
- Moderate (Yellow square)
- Low (Green square)

**Potential Slope Instability Hazards**

- High (Red outline)
- Moderate (Yellow outline)
- Low (Green outline)

**Slope Inclination Along Route Centerline**

- > 58% (Extremely Steep) (Red line)
- 40.01% - 58% (Very Steep) (Orange line)
- 30.01% - 40% (Moderately Steep) (Yellow line)
- < 30% (Gentle) (Green line)

**Other Symbols:**

- Mileposts (Orange circle)
- Boreholes (Blue circle)
- Steep Slope Hazard Site (Purple outline)
- Faults (Brown line)
- NHD Streams (Blue line)
- 600 ft buffer either side of centerline (Dashed orange line)

## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

### Sheet 214 of 216

1:12,000

0 500 1,000 2,000 Feet

N

**Document Information:**

Document No: DOM\_EC\_GEOL\_MA\_SER002

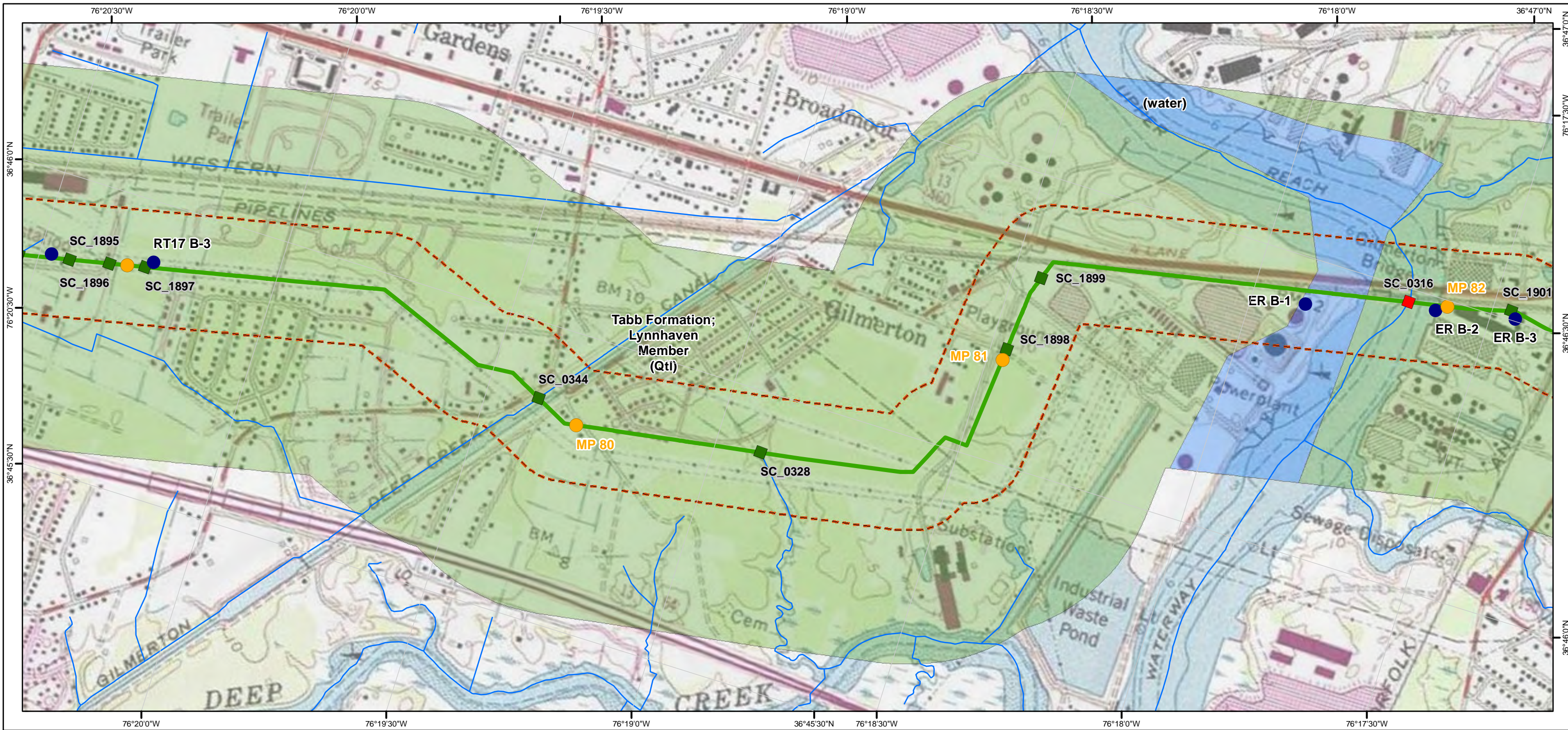
Revision	Date	Created By	Approved By
3	07-28-2016	PB	ZL
4	02-22-2017	KB	ZL
5	04-21-2017	BP	ZL

**Notes:**

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**Dominion Geosyntec consultants**

**TESSE CONSULTATIONS**

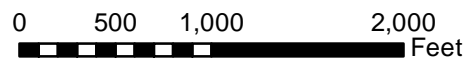


- Legend**
- Hydrotechnical Hazards**
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  - Moderate (Yellow square)
  - Low (Green square)
- Potential Slope Instability Hazards**
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# Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 215 of 216

1:12,000



## Document Information:

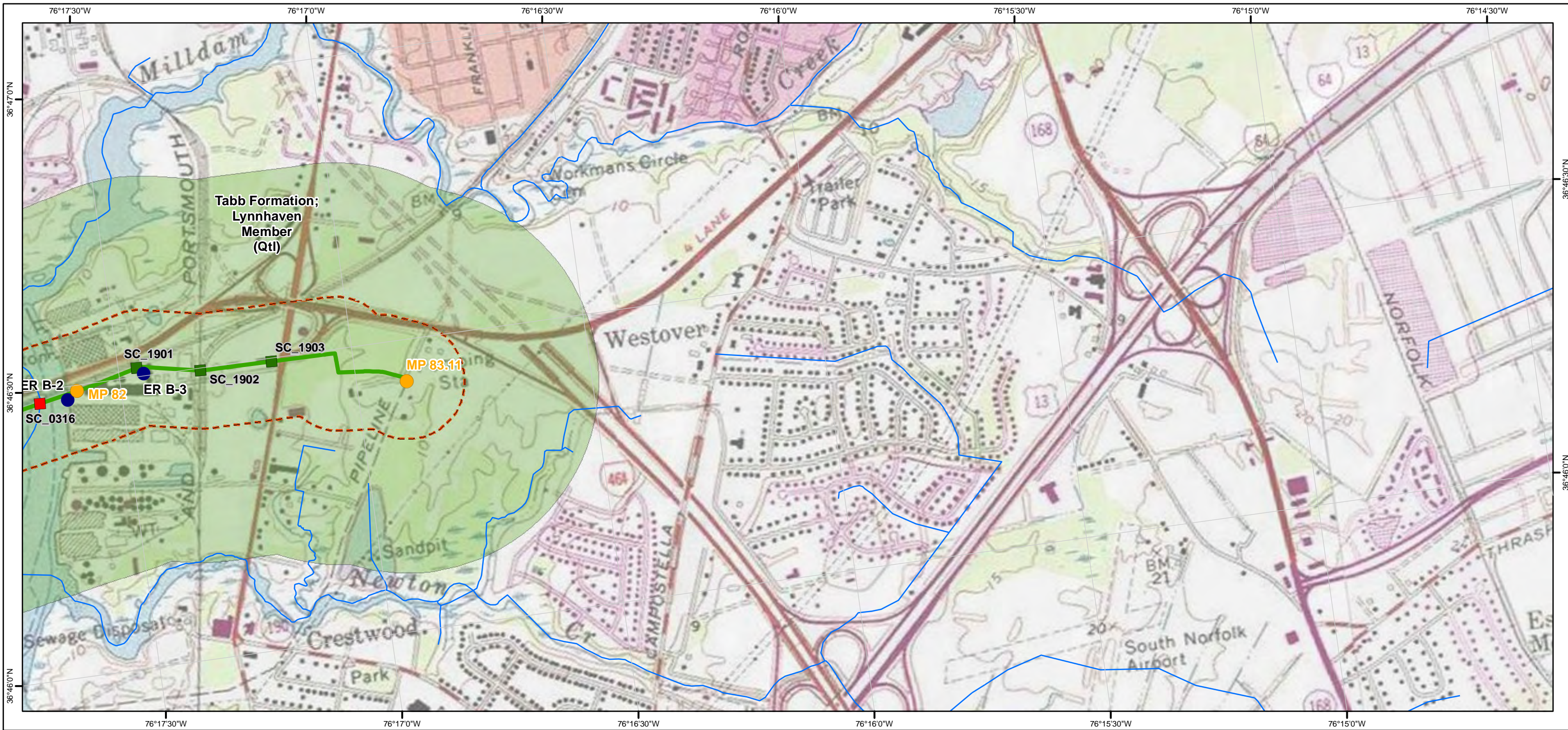
Document No: DOM\_EC\_GEOL\_MA\_SER002

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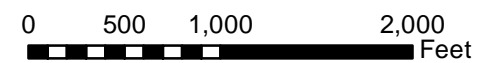


- Legend**
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  - Moderate
  - Low
- Potential Slope Instability Hazards**
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## Atlantic Coast Pipeline and Supply Header Project Geologic Hazards Mapbook

Sheet 216 of 216

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