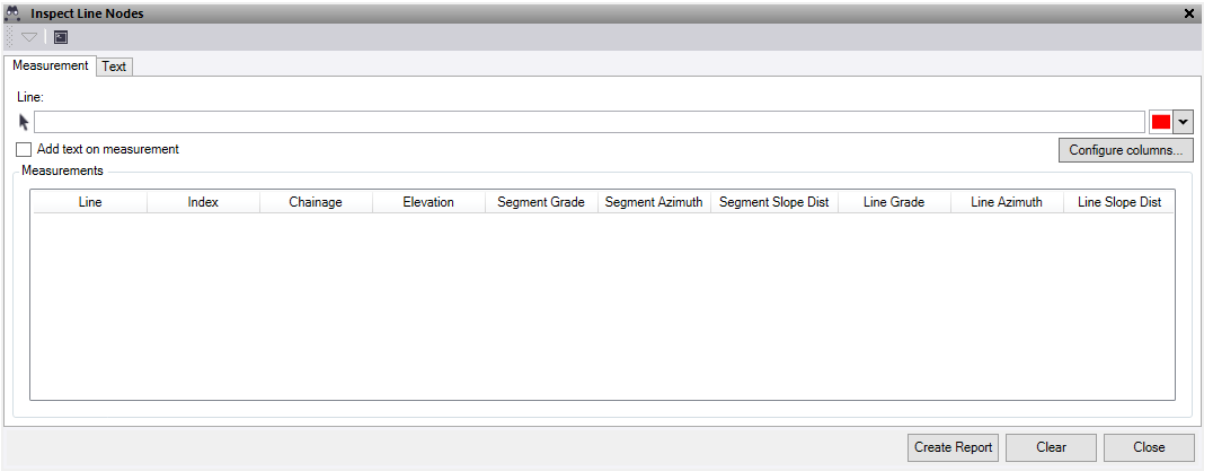
Inspect Line Nodes

Command Description

The Inspect Line Nodes command allows the user the ability to select a line and report the elevation, chainage, azimuth, and grades for all the nodes along the line. Annotate results to a text layer and/or create an excel report.



Measurement Tab

1. Select a **line** to report.
2. Check the **Add text on measurement** box to place the measurements directly on the screen as you select each location. The settings for text display are on the **Text tab**.
3. The **Configure columns** button allows the user to nominate which measured values are displayed in the measurements text box and reported.
4. Press the **Create Report** button to create an excel file of the data in the *Measurements* text box.
5. Press the **Clear** button to clear the measurements text box.

Text Tab

1. Go to the **Text** tab to draw the measurements taken and recorded in the measurement tab to text.
    - Define the **Layer –** *A layer called "Text – InspectLineNodes" is automatically created.*
    - Choose a **Colour**
    - Choose a text **Style.**
    - Enter a text **Height.**
    - Enter a **Gap** between the location and the start of the text *(moves to the left or right).*
    - Check the **Draw leader line with gap** box to add a leader line when a gap has been used.

- Check the **Draw grade arrows** box to annotate direction arrows and grade text on each segment.
- Check **Align text square to line** to draw text perpendicular to the line selected.
- Check **Include data prefix** to include the “Data” type as a prefix to the text on screen. The values available will depend on the mode chosen.
    - **Chainage** – Chainage of nodes along the line.
    - **Elevation** – Elevation of nodes along the line.
    - **Segment Grade** – Horizontal Slope between nodes on the line.
    - **Segment Azimuth** – Azimuth between nodes on the line.
    - **Segment Slope Dist** – The 3D slope distance between nodes on the line.

2. **Create Text** button will create text of all the measurements taken and currently active on the *Measurement* tab.
3. **Clear Layer** button will delete everything on the selected layer that contains the text.

<u>Example:</u> Report & Visual in TBC

Line	Index	Chainage	Elevation	Segment Grade	Segment Azimuth	Segment Slope Dist	Line Grade	Line Azimuth	Line Slope Dist
UG-NEW 160 dia Top	0	0.000	38.434 m				-1.15%	154°06'17"	422.417 m
UG-NEW 160 dia Top	1	8.546	37.962 m	-5.52%	125°40'55"	8.559 m			
UG-NEW 160 dia Top	2	19.869	37.491 m	-4.16%	119°27'44"	11.332 m			
UG-NEW 160 dia Top	3	32.297	37.132 m	-2.89%	120°00'24"	12.433 m			
UG-NEW 160 dia Top	4	45.222	36.502 m	-4.87%	120°01'19"	12.941 m			
UG-NEW 160 dia Top	5	61.377	35.748 m	-4.67%	120°47'41"	16.172 m			
UG-NEW 160 dia Top	6	75.665	35.266 m	-3.37%	120°35'56"	14.296 m			
UG-NEW 160 dia Top	7	90.604	34.475 m	-5.29%	122°39'50"	14.961 m			
UG-NEW 160 dia Top	8	102.877	33.900 m	-4.69%	118°26'02"	12.286 m			
UG-NEW 160 dia Top	9	111.001	33.796 m	-1.28%	212°12'46"	8.125 m