

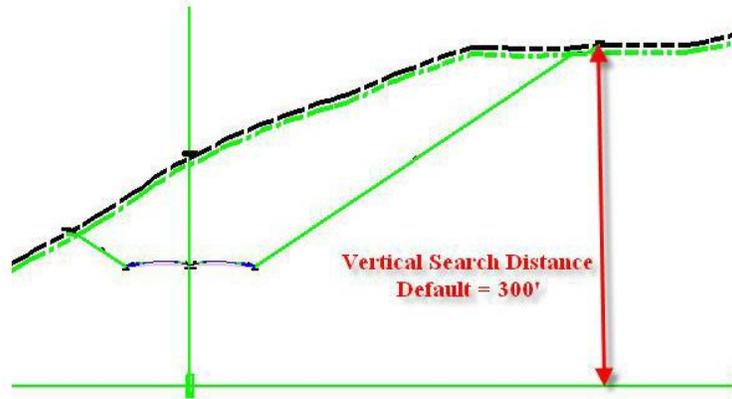
12_30 Earthwork for High Cut or Fill Sections

Question:

I have a project in the mountains. In certain areas where we are showing benching, the earthwork is running fine. However in other areas, it is not with apparently no difference in the sections. Why does Geopak have problems running earthwork at these stations?

Answer:

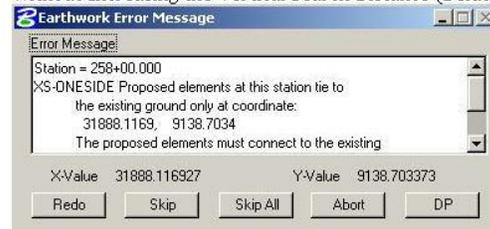
The default Geopak earthwork vertical search distance is set internally as 300'.



For your Project, and in general most mountain jobs with or without colluvial rock layer benching, earthwork involves the inclusion of all elements more than 300' from the green XS cell. The simple fix is to include this line in your earthwork input file, right below the tolerance statement.

vertical search distance = 400

Without Increasing the Vertical Search Distance (Default @ 300')



Increasing the Vertical Search Distance to 400' (on the same cross section)

Station	Element Type	Value 1	Value 2	Value 3	Value 4	Value 5
258+00.000	MASS ORDNATE FOR ROCK	4949				
	SUITABLE					
	Common Exc	32396.34	54843	54843	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
ROCK	Fill	0.00	0	0	1.15	99012
	Common Exc	2985.94	5350	5350	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	99012
258+50.000	MASS ORDNATE FOR ROCK	10299				
	SUITABLE					
	Common Exc	34392.08	61841	61841	1.00	
	Subgrade Exc	0.00	0	0	1.00	