Workflow 5: Calculating "Seeding" Quantities

1. *Follow steps 1 through 3 in workflow 4.*

2. *Press the Seeding button on the XS Report dialog box. This will bring up the Seeding Report Dialog box.*
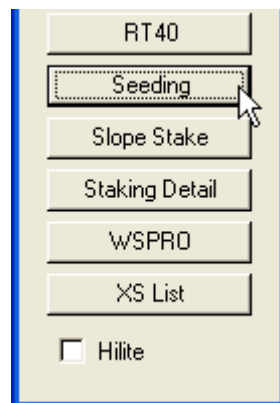

Figure 10-29: Seeding Button

3. *The Proposed Finish Grade elements are the same as the Clearing Report. The Candidate Seeding Element section needs the symbology of the slopes that will be seeded (typically the cut, fill, and ditch foreslope). These are the slopes that will be seeded. The Max Allowable Slope can vary on each project. This slope will be determined during the project, but for preliminary quantity calculations, you should use 1V:2H as the Max Allowable Slope.*

Figure 10-30: Seeding Report Dialog

4. *Pick the Additional Distance button to bring up the following dialog box.*

Figure 10-31: Additional Distance

5. *Fill in the appropriate values. They should be the same as the Cut Slope Rounding and Additional clearing in fill values used in the Clearing Report. Select OK.*

6. *Type in the output filename for your Seeding Report and then select Apply in the Seeding Report Dialog Box. GEOPAK will produce the following file.*

```
04/25/2006                              Project Number                          Page# 1
                                          Road Name
                                        SEEDING REPORT

NUMBER OF LEFT  CUT  SLOPES TO BE BYPASSED          = 0
NUMBER OF LEFT  FILL SLOPES TO BE BYPASSED          = 0
NUMBER OF RIGHT CUT  SLOPES TO BE BYPASSED          = 0
NUMBER OF RIGHT FILL SLOPES TO BE BYPASSED          = 0
ROUNDING DISTANCE FROM CUT SLOPE STAKE              = 10.00          Ft
MAXIMUM ALLOWABLE SLOPE FOR SEEDING/SODDING 1.0000  / 2.0000   Rise over Run
ADDITIONAL SEEDING    LEFT   SIDE                   = 0.00           Ft
ADDITIONAL SEEDING    RIGHT  SIDE                   = 0.00           Ft
ADDITIONAL SEEDING IN CUT                           = 3.00           Ft
ADDITIONAL SEEDING IN FILL                          = 3.00           Ft
SUBTOTALS EVERY    1000.0000 Ft BEGINNING AT STATION 10+00.00 METHOD INCR
SCALING FACTOR              =         1.00000                   WITH LABEL        [ SF ]


STATION              SLOPE DISTANCE  AVERAGE SLOPE DIST     A R E A     SF    SUBTOTAL  A R E A     SF
                     LT      RT      LT       RT         LT       RT    BOTH    LT        RT      BOTH
                       (TOTAL)


11+00.00 R 1         20.51    16.90                                                  0        0        0
                     (   37.41)     26.83    22.42      2683     2242    4925
12+00.00 R 1         33.14    27.94
                     (   61.08)     33.09    22.71      3309     2271    5580
13+00.00 R 1         33.04    17.48
                     (   50.52)     33.03    22.90      3303     2290    5593
14+00.00 R 1         33.02    28.32
                     (   61.34)     31.25    30.40      3125     3040    6165
15+00.00 R 1         29.48    32.48
                     (   61.96)     31.29    29.35      3129     2935    6064
16+00.00 R 1         33.10    26.22
                     (   59.32)     33.14    28.03      3314     2803    6117
17+00.00 R 1         33.19    29.84                                            18863    15581    34445
                     (   63.03)


TOTAL          LEFT             RIGHT            BOTH
   SF=      18863.0000       15581.0000       34445.0000
ACRES=        0.4330           0.3577           0.7907
```

Figure 10-32: Seeding Report Output

Related links: Using Knucklehead's Guide for GEOPAK Road 2004 Edition.

Clearing Notes

Seeding Notes