



RIFT TD TUTORIAL
DEPOSITION RESULTS

INTRODUCTION

Deposition models generate various results which may include:

- Result Summary.
- Basin Deposition Results.
- Detailed Deposition Results.
- Raise Surfaces.
- Deposition Embankment Results.
- Supernatant Pond Results.

In this tutorial you will work through these result types.

A copy of the **Rift TD** Users Manual may be useful when working through this tutorial. It is installed during **Rift TD** installation, but can also be downloaded from our [download page](#).

TUTORIAL COMPONENTS

This tutorial comprises:

- This instruction set.
- The Rift TD data file used to generate the result file, Final Model.rft.
- The deposition result file, Final Model.res.

RESULT FILE

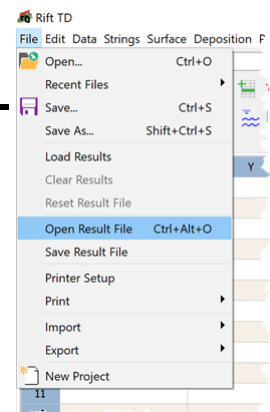
This tutorial provides the **Rift TD result file, Final Model.res**, as a starting point:

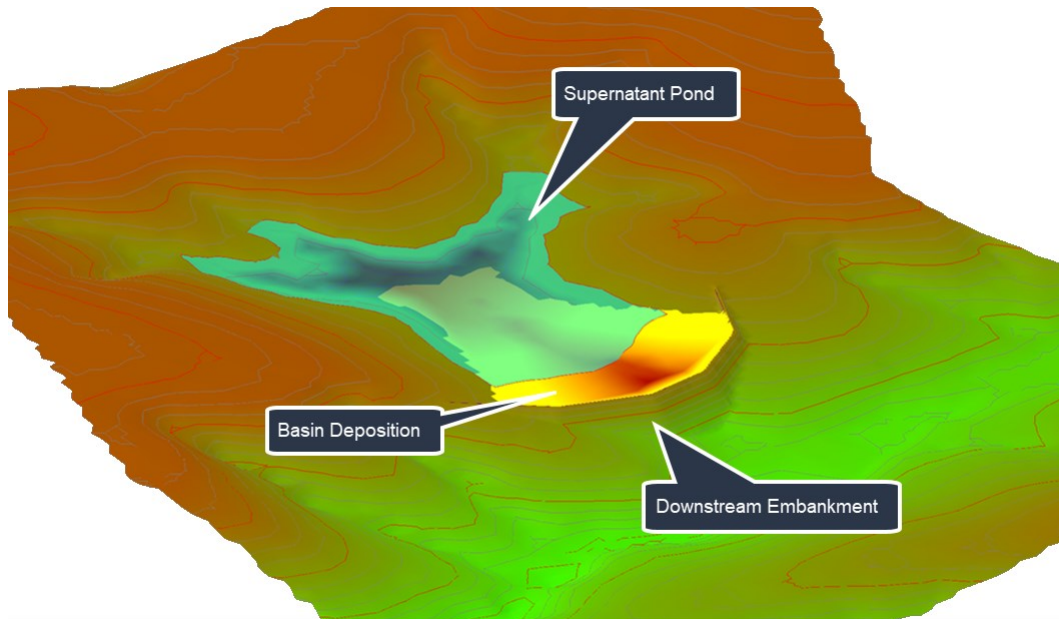
- **Click File > Open Result File.**
- **Select Final Model.res.**
- **Click Open.**

The model comprises:

- Basin deposition results.
- Deposition embankment results generated by cyclone deposition.
- A supernatant pond generated during deposition.

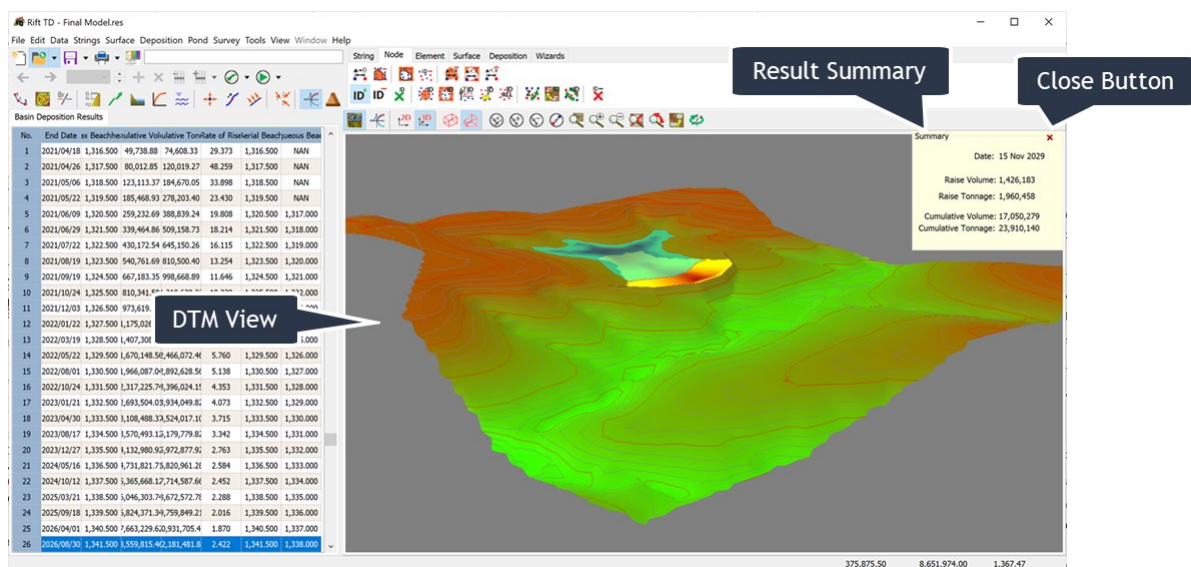
Rift TD activates basin deposition results on opening a result file.





RESULT SUMMARY

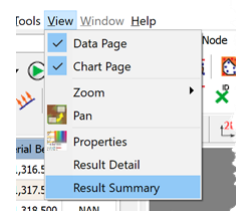
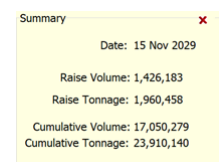
The **Result Summary** is shown in the top right corner of the **DTM View** during, and following, a deposition model run.



The **Results Summary** provides a **result overview** for the **current raise surface**. It is updated during a deposition model run as deposition proceeds, or when you load a raise surface. You can **show** or **hide** the **Result Summary**:

- Click the **close button** to **close** the **Result Summary**.
- Click **View > Result Summary** to **toggle** the **Result Summary** status.

You can **copy** **Result Summary** data to the **clipboard**; **right click** on the **Result Summary** and **click** **Copy to Clipboard**.



BASIN DEPOSITION RESULTS

Following a deposition model run or on opening a Result File, **Rift TD displays Basin Deposition Results** on the **Data Grid**.

You can **view Basin Deposition Results** on the **Deposition Result View**.

DATA GRID

If necessary, **click** the **Basin Deposition Results Tool-button** to **activate** them.

The **Basin Deposition Results** are for a **complete raise** i.e. deposition from all active deposition Vectors/Locations. The **Result Detail Form** gives results for **individual Deposition Vectors/Locations**.

Rift TD generates numerous deposition output parameters during a deposition model run. You can **select** which **parameters** to show on the **Data Grid**.

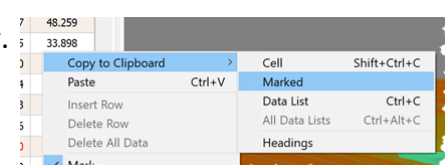
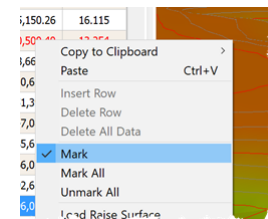
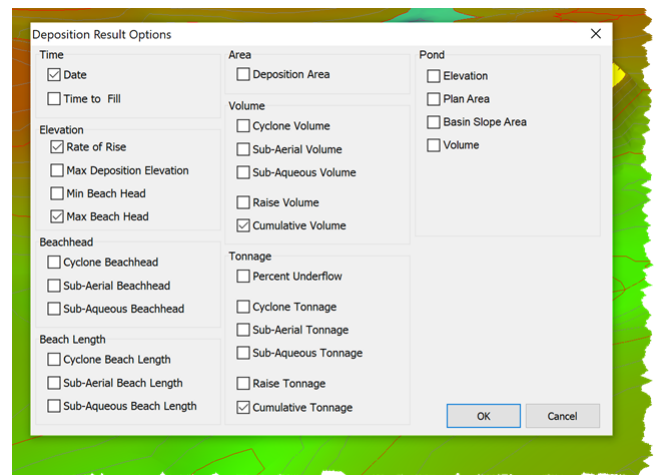
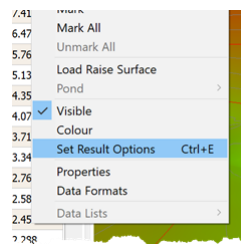
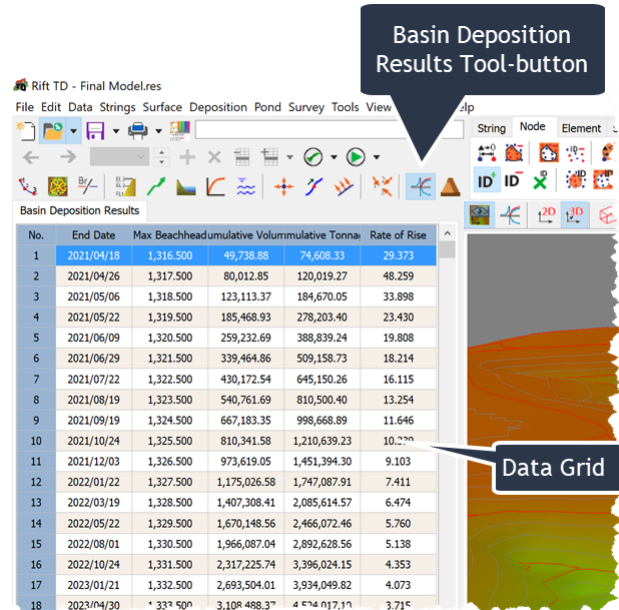
- **Click** on the **Data Grid** to activate it and either:
 - **Press Ctrl E**; or
 - **Right Click** on the **Data Grid** and **select Set Result Options**.
- **Select parameters** on the **Result Options Dialog**.
- **Click Ok**.

You can **copy results** from the **Data Grid** to the **clipboard**:

- **Click** on the **Data Grid** to **activate** it and **Press Ctrl C**; or
- **Right click** on the **Data Grid**, **click Copy to Clipboard**, and **select** an **copy option**.

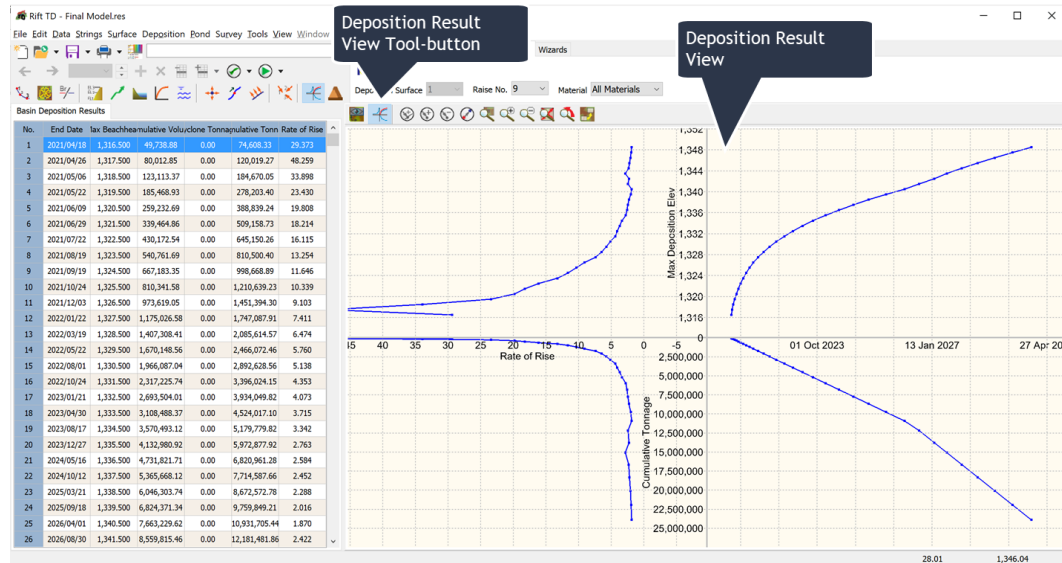
You can also **mark** and **copy** specific **Rows**:

- **Right click** on the **Data Grid** and **click Mark** to mark a row.
- **Right click** on the **Data Grid** and **select Copy to Clipboard > Marked**.



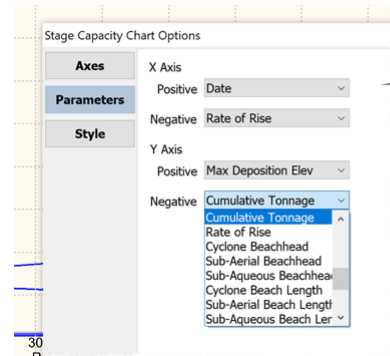
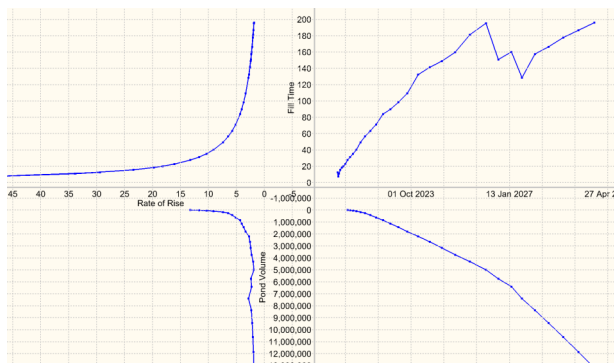
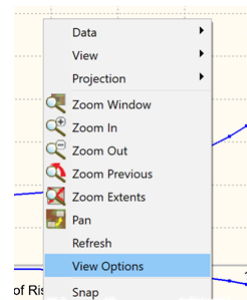
DEPOSITION RESULT VIEW

The **Deposition Result View** illustrates the **Deposition Results** on a four quadrant view.



You can **change** the **axes parameters**:

- **Right click** on the **Result View**.
- **Click View Options**.
- **Activate** the **Parameters Sheet**.
- **Use** the **Drop Down Boxes** to **set** the **axis parameters**.



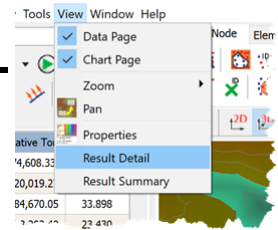
You can:

- **Use** the **Zoom** and **Pan** functions to **set** the **view**.
- **Copy** an image of the **Result View** to the **clipboard**:
 - **Right click** on the **Result View**.
 - **Click Copy to Clipboard**.



RESULT DETAIL

You can **view Deposition Results** from each **Deposition Vector/Location**;
 click **View > Result Detail**.



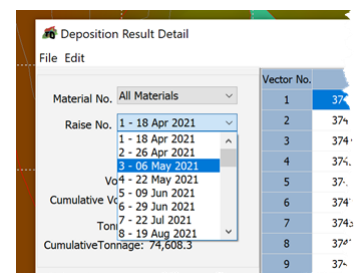
Selector Panel

Result Grid

Vector No.	x	y	z	Fill Time	Elevation	Beachhead Elev	Raise Volume	Raise Tonnage
1	374114.8	8648575.1	1316.50	12.4				
2	374132.2	8648564.9	1316.50	12.4				
3	374171.5	8648536.9	1316.50	12.4				
4	374210.9	8648508.8	1316.50	12.4				
5	374250.2	8648480.8	1316.50	12.4				
6	374289.6	8648452.8	1316.50	12.4				
7	374328.9	8648424.8	1316.50	12.4				
8	374368.3	8648396.7	1316.50	12.4				
9	374407.7	8648368.7	1316.50	12.4				
10	374447.0	8648340.7	1316.50	12.4				
11	374486.4	8648312.7	1316.50	12.4				
12	374525.7	8648284.6	1316.50	12.4				
13	374565.1	8648256.6	1316.50	12.4				
14	374571.8	8648249.6	1316.50	12.4				
15	374574.5	8648252.9	1316.50	12.4				
16	374618.6	8648245.9	1316.50	12.4				
17	374662.6	8648239.0	1316.50	12.4				
18	374706.6	8648232.0	1316.50	12.4				
19	374750.7	8648225.0	1316.50	12.4				
20	374794.7	8648218.1	1316.50	12.4				
21	374838.7	8648211.1	1316.50	12.4				
22	374882.8	8648204.1	1316.50	12.4				

The **Result Detail Form** provides a:

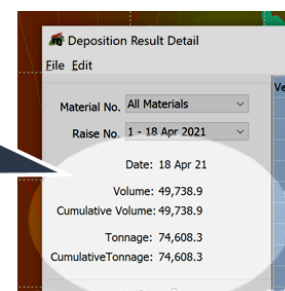
- **Selector Panel** with selector drop down boxes:
 - **Material:** Use the **Material No. Drop Down Box** to view results for a **particular material**.
 - **Raise No.:** Use the **Raise No. Drop Down Box** to set the **active raise**.



The **Raise Summary results** are also **shown** on the **Selector Panel**.

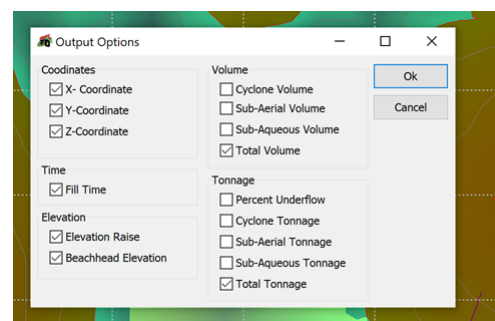
- **Result Grid:** **Displays** the **deposition results** for the **active raise**.

Raise Summary Results



You can **customise Result Grid output**:

- **Right click** on the **Result Grid**.
- **Click Options**.
- **Check** the **parameters** to display.
- **Click Ok**.



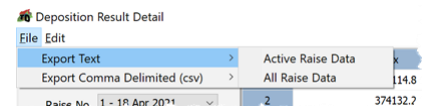
Some rows may not have results this indicates that deposition did not take place. This may be due to:

- The deposition elevation being below the surface.
- The deposition elevation being above its maximum elevation.
- The deposition elevation not being in a valid elevation range.
- The deposition point being in active.

Vector No.	x	y	z	Fill Time	Beachhead Elev	Raise Volume	Raise Tonnage
14	374562.3	8648226.3	1323.50	27.6			
15	374570.7	8648228.7	1323.50	27.6			
16	374614.7	8648221.7	1323.50	27.6			
17	374658.8	8648214.8	1323.50	27.6			
18	374702.8	8648207.8					
19	374746.8	8648200.8					
20	374790.9	8648193.9					
21	374834.9	8648186.9					
22	374878.9	8648179.9	1323.50	27.6	13.50	38155	56792
23	374922.9	8648172.9	1323.50	27.6			
24	374949.8	8648164.9	1323.50	27.6	50	9327	13959
25	374961.5	8648169.3	1323.50	27.6			
26	374998.0	8648183.3	1323.50	27.6			
27	375034.5	8648197.2	1323.50	27.6	1323.50	29449	44126
28	375071.0	8648211.2	1323.50	27.6	1323.50	11600	17389
29	375107.5	8648225.2	1323.50	27.6	1323.50	9442	14160
30	375143.9	8648239.2	1323.50	27.6	1323.50	6984	10476
31	375180.4	8648253.1	1323.50	27.6	1323.50	3929	5893
32	375216.9	8648267.1	1323.50	27.6	1323.50	1704	2555
33	375247.7	8648279.0	1323.50	27.6			
34	375268.3	8648294.7	1323.50	27.6			
35	375301.2	8648327.3	1323.50	27.6			

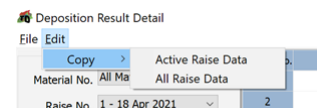
You can **save** the **active**, or **all results** to either **Text (txt)** or **Comma Delimited (csv)** format.

- **Click:**
 - **File > Export Text;** or
 - **File > Export Comma Delimited (csv).**
- **Select Active Raise Data** or **All Raise Data.**

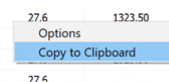


You can **copy results** to the clipboard:

- **Click Edit > Copy.**
- **Select Active Raise Data** or **All Raise Data.**



You can also **right click** on the **Result Grid** and **click Copy to Clipboard** to **copy** the **Active Raise Results** to the clipboard.



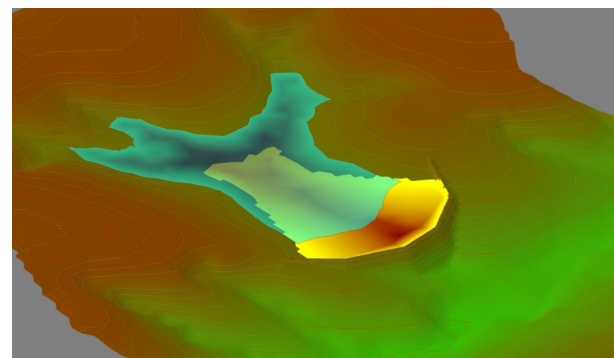
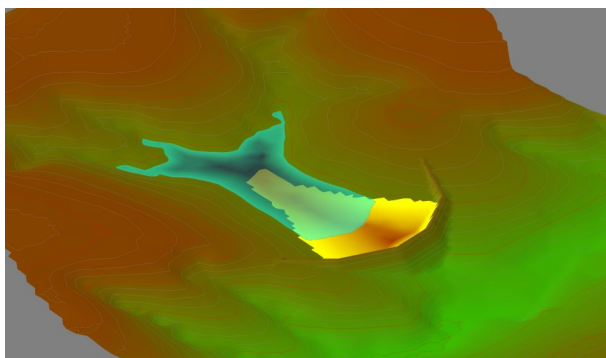
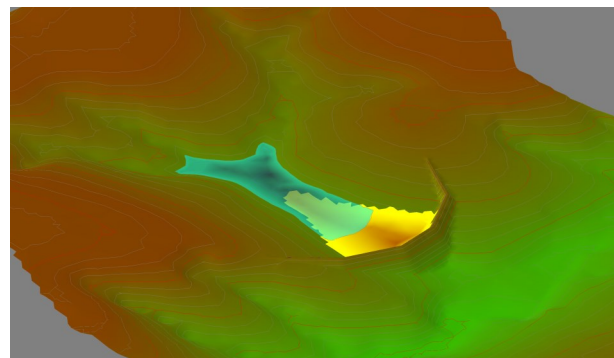
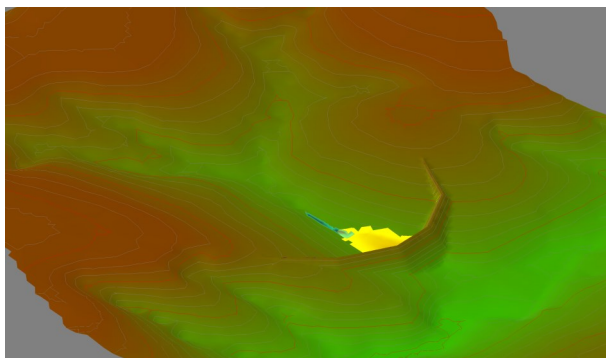
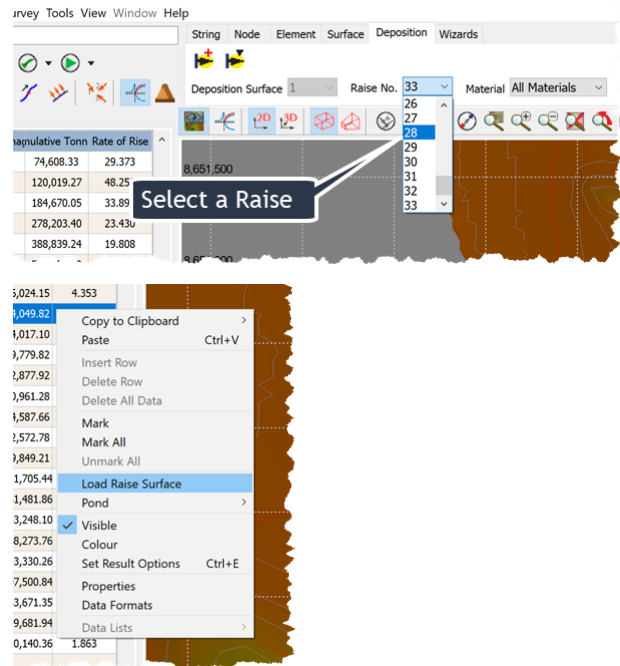
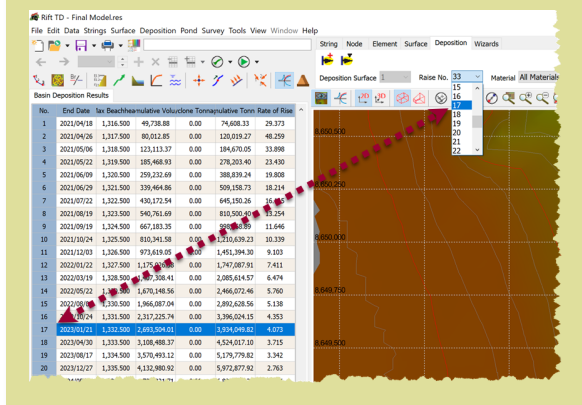
RAISE SURFACES

You can **load** any saved **Raise Surface** following a deposition model run. Either:

- **Select** a raise from the **Raise No. drop down box** on the **Deposition Toolbar**; or
- **Right click** on the **Data Grid** and **select Load Raise Surface** to **load** the **Raise Surface** for the **active row**.

If visible, **Rift TD** also **updates** the **Result Summary**.

The **Rise Numbers** in the **Rise No. Drop Down box** correspond to the **Raise Results** on the **Data Grid**.



DEPOSITION EMBANKMENT RESULTS

Rift TD generates **Deposition Embankment Results** for Downstream or Centreline Cyclone if:

- The model is set to generate embankments during deposition.
- A Deposition Embankment is defined.

Activate the **Deposition Embankment Data Type** to view **Embankment Results** on the **Data Grid**. If more than one **Deposition Embankment** is defined you can navigate them using the **Navigation Toolbar**.

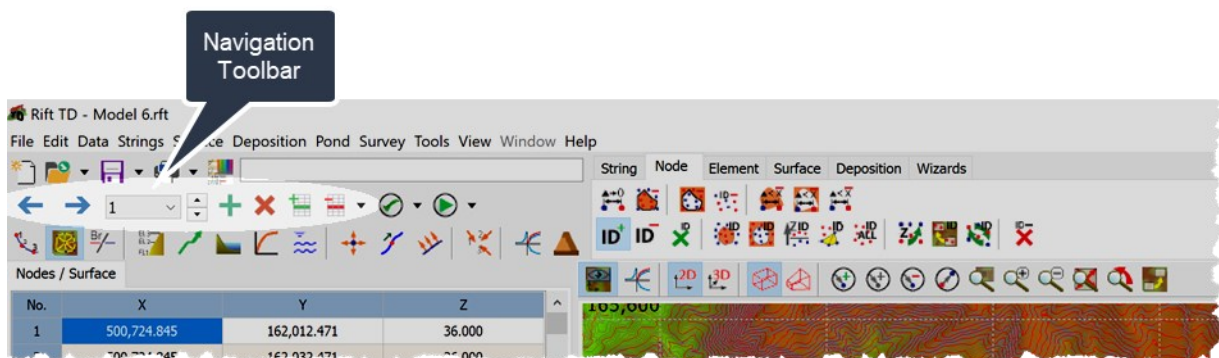
Rift TD - Final Model.res

File Edit Data Strings Surface Deposition Pond Survey Tools View

Deposition Embankments

Embankment Results

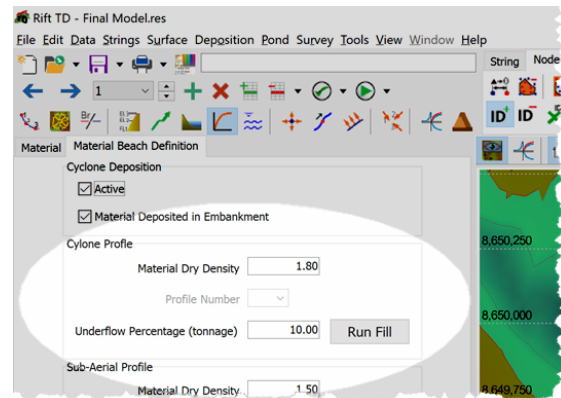
No.	End Date	Max Elevation	Fill Area	Fill Volume
1	2021/04/06	1,312.500	896.98	247.27
2	2021/04/13	1,317.500	8,486.55	18,448.18
3	2021/05/17	1,322.500	23,841.80	98,730.57
4	2021/08/02	1,327.500	46,482.45	278,434.73
5	2021/12/15	1,332.500	77,824.41	597,447.87
6	2022/07/19	1,337.500	119,667.07	1,105,012.55
7	2023/06/06	1,342.500	174,113.54	1,862,262.48
8	2024/09/07	1,347.500	244,070.53	2,943,482.46
9	2026/06/05	1,352.500	333,273.43	4,438,765.64
10				
11				
12				



Results comprise:

- Fill Date.
- Crest Elevation.
- Plan Area.
- Cumulative Volume.

You can **adjust** the **underflow material parameters** following a model run to **assess** the **effect on deposition**:



- **Activate Materials.**
- On the **Material Beach Definition Sheet**:
 - **Change** the **Underflow Density** and/or the **Underflow Percentage.**
 - **Click Run Fill.**

Blank Deposition Embankment Result End Dates indicate that there is **insufficient underflow material** to fill the embankment.

Rift TD - Final Model.res

File Edit Data Strings Surface Deposition Pond Survey Tools View Window Help

String Node Element Surface Deposition Wizards

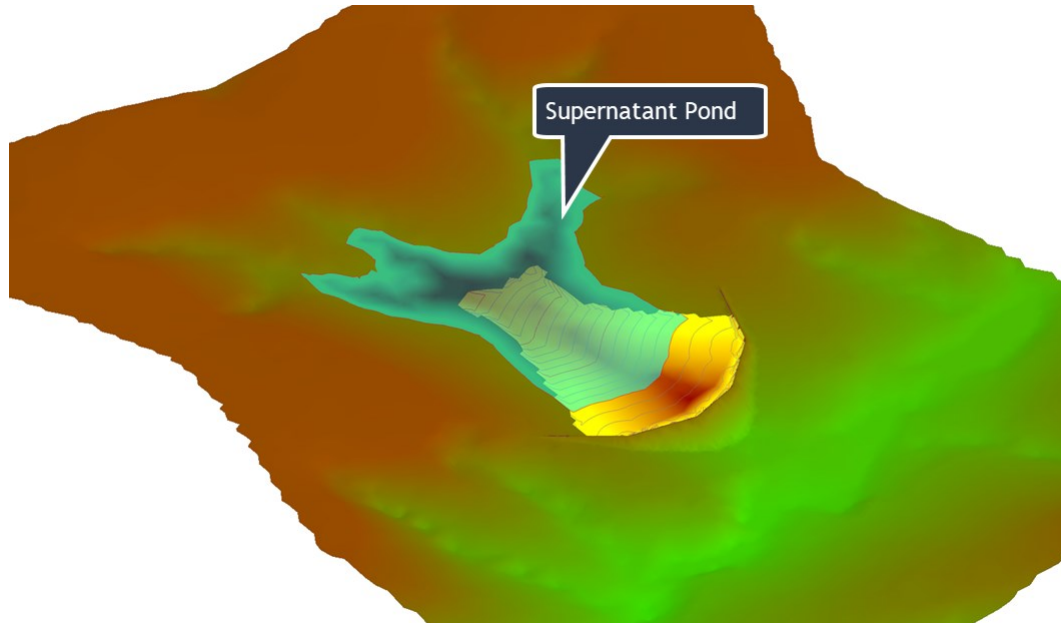
Embankment Results

No.	End Date	Max Elevation	Fill Area	Fill Volume
1	2021/04/06	1,310.500	0.00	0.00
2	2021/04/19	1,315.500	4,634.83	7,339.33
3	2021/07/14	1,320.500	16,800.60	55,553.59
4	2022/03/09	1,325.500	35,785.77	187,325.44
5	2023/06/10	1,330.500	63,342.33	442,101.44
6	2025/07/08	1,335.500	100,518.28	863,697.37
7		1,340.500	149,271.25	1,506,809.22
8		1,345.500	212,204.50	2,440,560.77
9		1,350.500	292,635.42	3,746,551.09
10		1,352.500	330,424.09	4,395,359.03
11				
12				

Insufficient Underflow Material to Fill Embankment

SUPERNATANT POND

You can develop **Supernatant Ponds** during a deposition model run.



Depending on the options selected, you can generate:

- a volume elevation curve; and/or
- a pond boundary during a Deposition Model Run.

After a model run you can:

- **Show** or **hide** the **Active Pond**; and
- **Set** the **Active Pond Elevation**.

The **Active Pond** is the pond for the **Raise Surface** shown on the **DTM View**.

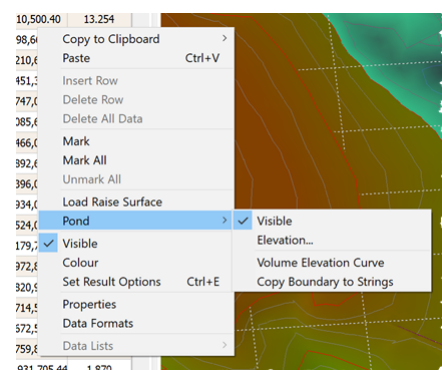
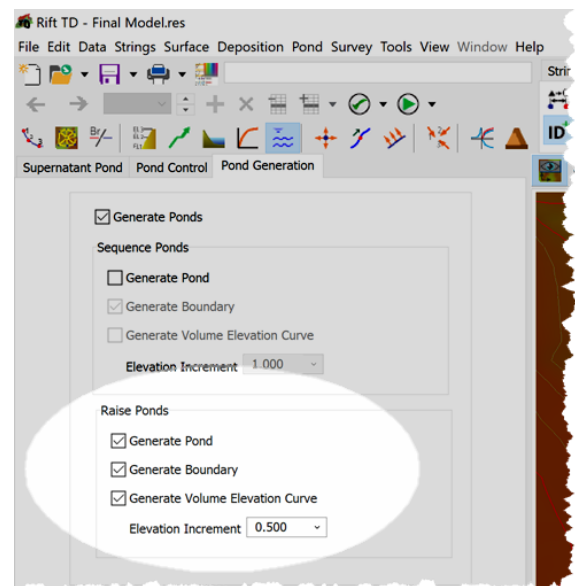
You can also:

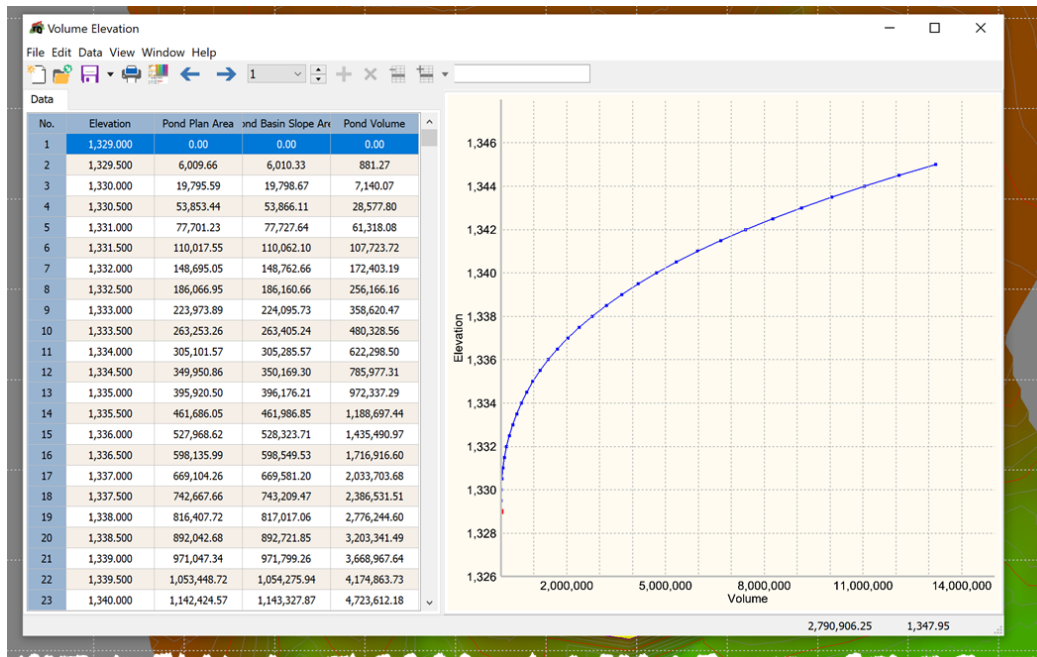
- **View** a **Raise Pond Volume Elevation Curve**; or
- **Copy** a **Raise Pond Boundary** to the **Sting Data Type**.

The **Raise Pond Operations** refer to the **Active Raise (Row)** on the **Data Grid**.

Right click on the **Data Grid** and **select** the **Pond** menu to access these operations.

Rift TD may develop more than one **Supernatant Pond**.





Pond Volume Elevation Curve