

# **BHP Billiton Iron Ore**

**RECONCILOR V6.0 User Manual**

**Version 1.0**



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# 1 Introduction

The RECONCILOR User Manual is designed to show the user how to navigate through the different tabs and screens. The user should refer to the RECONCILOR BHP Billiton User Guide for information regarding the application of the RECONCILOR system for F1, F2, and F3 Reconciliation.

## 1.1 Document Structure

The User Manual has been divided into the following sections:

- Home Screen Tab – The entry screen to RECONCILOR can be viewed in 3 different levels, Company, Hub and Site level.
- Blastblocks Tab -The Blastblocks screens are designed to facilitate the management of blastblocks and the retrieval of blastblock related data. The key source of this information is Blastholes 4.
- Stockpiles Tab -The Stockpiles screens allow users to manage stockpiles, including grouping and reporting of stockpile information and manual adjustment reporting.
- Approval Tab – The approval screen facilitates the signoff process for the F1, F2, F3 numbers. Site, Hub and Corporate users will validate data for a reconciliation period and signoff that it has been accepted and reviewed, locking out any further data changes.
- Analysis Tab - The Analysis screens provide the user with the ability to perform comparisons and analysis on various portions of data within the system. From this area the user is also able to view the internal logic of the RECONCILOR recalculation system.
- Port Tab - The Port screens provides a view of the Shipping, Port Blending and Port Balances for a selected period.
- Reports Tab - From the Reports tab the user may access the BHP Billiton Iron Ore reports, selected standard RECONCILOR V6.0 reports or any ad-hoc reports created for a site.
- Utilities - The Utilities tab is designed to capture all tasks that involve changes to key system information. This section is available only to approved users which consequently can be defined in the Role Management section of the Utilities tab

## 1.2 Common Functionality

Common functionality includes:

- Export to CSV – Allows the user to export the data displayed in a table to an Excel spreadsheet.
- Hyperlinks – Words which are underlined and cause the cursor icon to change when hovered over. The hyperlinks allow the user to drill down to more information or to edit or delete the record.
- Data sorting – click on the column header to sort the data numerically or alphabetically.

## 2 Home Screen

This is the entry screen to the RECONCILOR System

### Company (WAI0) F1F2F3 Reconciliation

- Filter for specified period (Financial Quarter / Calendar)
- Reports buttons for the current and historical Action Register, Technical Summary and Reconciliation Summary Reports
- Process Map/Production Figures
- Print current view
- Map of site to drill down
- Aggregated F1F2F3 Dashboard

### Hub Home Screen

- Filter for specified period (Financial Quarter / Calendar)
- Reports buttons for the current and historical Action Register, Technical Summary and Reconciliation Summary Reports
- Print current view
- F1F2F3 Dashboard
- Comparison Graphs for Tonnes, Fe, P, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and LOI for F1, F2 and F3Factors
- A drill down select box to compare sites of hub, if there is more than one site for the hub (e.g. NJV).

### Site Home Screen

- Filter for specified period (Financial Quarter / Calendar)
- Reports buttons for the current and historical Action Register, Technical Summary and Reconciliation Summary Reports
- Print current view
- F1F2 Dashboard with F3 ‘greyed out’

### 2.1 Company (WAI0) F1F2F3 Reconciliation Home Page

This is the entry screen to the RECONCILOR System when the home tab is selected. It displays the aggregated dashboard of all of the sites for F1, F2 and F3 for the filtered date range (Figure 2.1).

A map is displayed at the bottom allowing a user to drill down into each sites home screen when clicking the blue boxes.

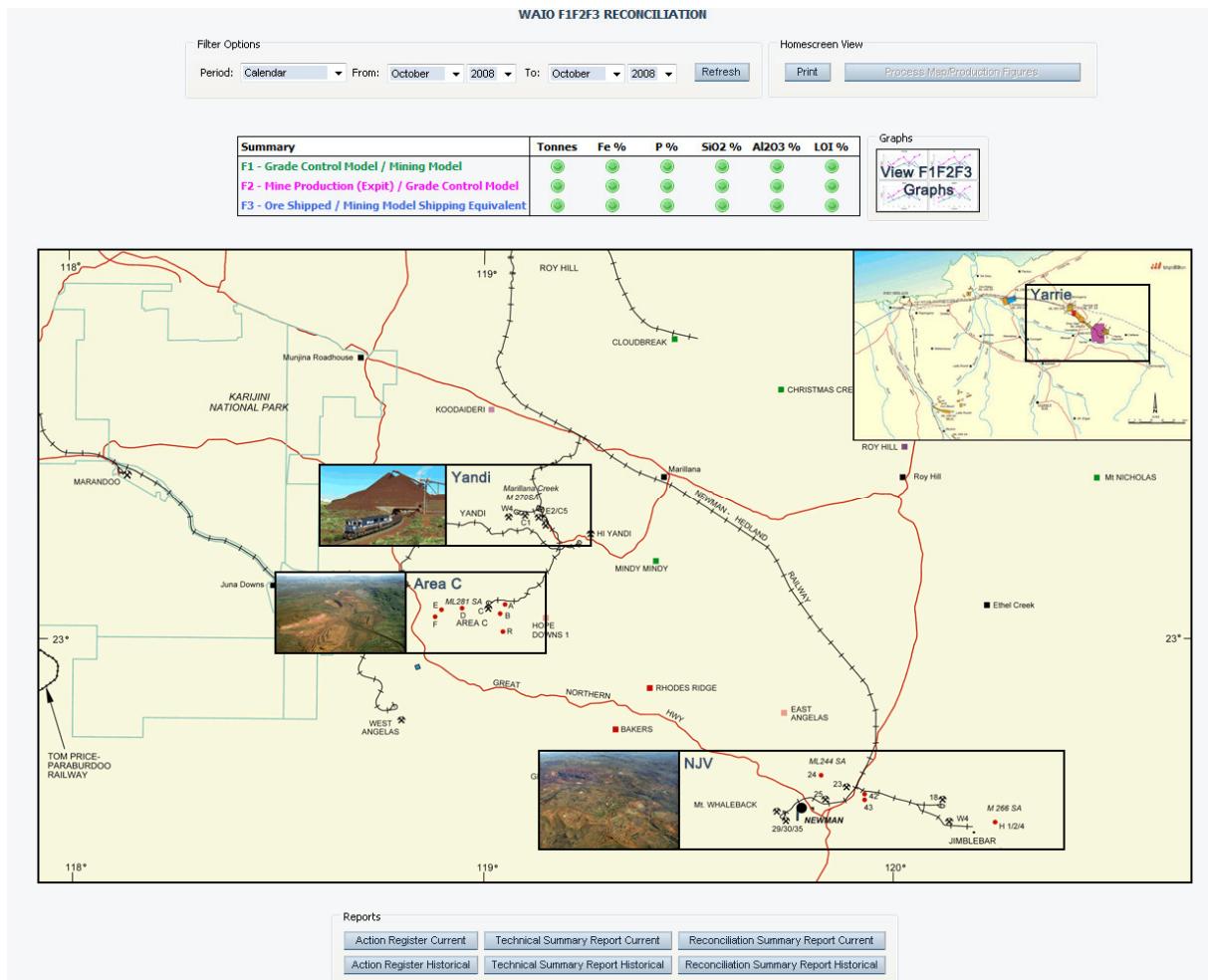
Under the map, a group box of buttons is displayed that allow the user to open up the current and historical Action Register, Technical Summary and Reconciliation Summary Reports.

#### Screen outputs:

- Filter for specified date range by year and Calender Month or Financial Quarter. If only a month worth of data is selected the F3 will be greyed out
- Print current view
- A button for Process Map/Production Figures for future development providing a summary process flow of all hubs. The functionality is currently disabled with implementation planned at a future date.
- Dashboard table of site outputs aggregated from all sites, filtered by the provided date filters
- Map of site locations with drill down box's linking to the hub (e.g. NJV, AreaC, Yandi) or site (e.g. Yarrie) home screen

- Report grouping providing buttons to access the following current or historical reports:
  - Action Register
  - Technical Summary Report
  - Reconciliation Summary Report

**Figure 2.1 Home Page - Company**



## 2.2 Hub Home Page

The home screen for a hub is accessed via the WAIO home screen. It displays the dashboard for the hub's F1, F2 and F3 Factors for the filtered date.

A WAIO Homescreen link allows users to quickly go back to the Company Homescreen.

A select box will be used to pick a site at the hub enabling the user to validate the F1 and F2 of the site for the given period.

A series of graphs for the Tonnes, Fe, P, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and LOI over time is presented based on the data range filters. At the bottom a group box of buttons will allow the user to open up the current and historical Action Register, Technical Summary and Reconciliation Summary Reports.

This screen outputs:

- Filter for specified date range by year and Calender Month or Financial Quarter.
- Print current view
- A button for Process Map/Production Figures for future development providing a summary process flow of the hub. The functionality for the summary is not in scope of this implementation.
- Dashboard chart of site outputs aggregated from all sites and filtered by the date filters
- A link back to the WAIO Homescreen
- A select box to pick a site for which the user wishes to view the site screen. For example NJV may be the hub – and one of the sites available will be OB18 or OB25.
- Graphs plotting the following attributes over time for the report period:
  - Tonnes
  - Fe
  - P
  - SiO<sub>2</sub>
  - Al<sub>2</sub>O<sub>3</sub>
  - LOI
- Report grouping providing buttons to access each report
  - Current
    - Action Register
    - Technical Summary Report
    - Reconciliation Summary Report
  - Historical
    - Action Register
    - Technical Summary Report
    - Reconciliation Summary Report
  - A 'tooltip' will appear over the Reconciliation Results in the top table showing the thresholds, and the value for that field.

Figure 2.2 Home Page – Hub



## 2.3 Site Home Page

This is the home screen for a site when a user drills down from the company or hub home screen. It displays the dashboard for the site's F1 and F2 for the filtered date range (F3 for the site will be 'greyed out') (Figure 2.3).

A link back to the company home screen or hub screen allows users to quickly go back.

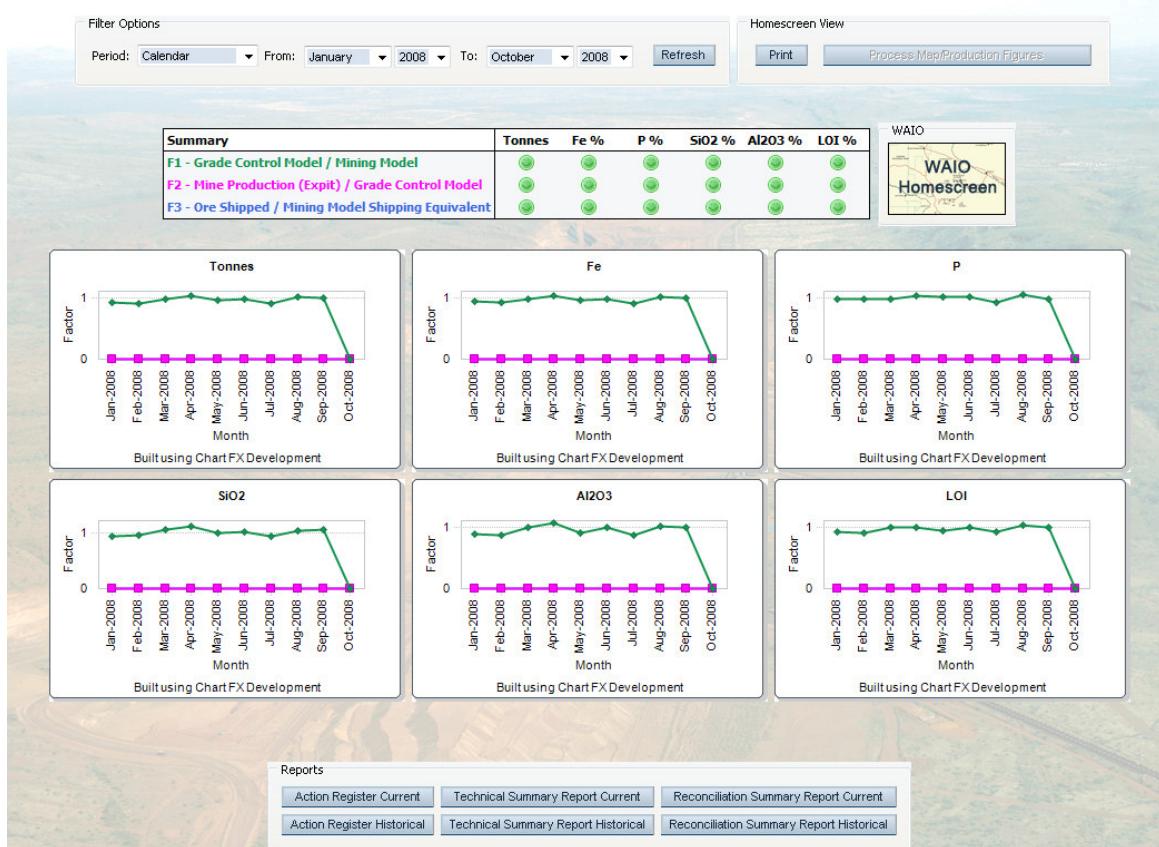
A series of graphs for the Tonnes, Fe, P, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and LOI over time is presented based on the data range filters. At the bottom a group box of buttons will allow the user to open up the current and historical Action Register, Technical Summary and Reconciliation Summary Reports

This screen outputs:

- Filter for specified date range by year and Calender Month or Financial Quarter F3 for the site will be removed
- Print current view
- A button for Process Map/Production Figures for future development providing a summary process flow of the site. The functionality for the summary is not in scope
- Dashboard chart of site outputs aggregated from all sites and filtered by date range
- A link back to the company home screen
- Graphs plotting the following attributes over time for the report period:
  - Tonnes
  - Fe
  - P
  - SiO<sub>2</sub>
  - Al<sub>2</sub>O<sub>3</sub>
  - LOI
- Report grouping providing buttons to access each report
  - Current
    - Action Register
    - Technical Summary Report
    - Reconciliation Summary Report
  - Historical
    - Action Register
    - Technical Summary Report
    - Reconciliation Summary Report
- The colours in the charts will align with the colours used in the table above.
- When a site has been selected the F3 information will be 'greyed out' from the charts.

Figure 2.3 Home Page – Site

Area C F1F2F3 RECONCILIATION



### 3 Blastblocks Tab

The Blastblocks Tab shows a summary of all Blastblocks as imported from Blastholes 4 into the RECONCILOR system.

The following information is shown:

- Blastblock Id
- Ore type
- Start date
- End date
- Start tonnes
- Actual (haulage)
- Remaining tonnes (Actual – Blast Block Tonnes)
- Depleted Blast Block
- Depleted Reserve
- Depleted Resource

The screen provides the functionality to view a blastblock by selecting its hyperlinked Blastblock Id.

On the left side is a tasks box which allows the user to see the Blastblocks in two different views:

- Blastblock List
- Blastblock Tree

#### 3.1 Blastblock List

The Blastblock List screen provides the ability to filter the Blastblock List on the following:

- Location
  - The ability to filter through the location hierarchy
- Blastblock state
  - All Blastblocks
  - Blastblocks where mining has commenced'
  - Blastblocks where mining has not commenced
  - Blastblocks where mining has been completed
- Blastblock ID
  - Performs a search on any part of the Blastblock ID
- Start Date From and Start Date To
  - Blastblocks that were open for the selected period
- Limit Records
  - Limits the result set to 100 records.

To clear and reset the filters the user can click on ‘Reset Filters’.

Figure 3.1 shows a user has filtered on ‘All Blastblocks’ within Pit CE and Bench 629. Click the ‘Filter’ button to show the results.

**Figure 3.1 Blastblock – Blastblock List View**

The screenshot shows a software interface titled 'Blastblock List' under the 'Blastblock Menu'. A message at the top indicates 32 haulage errors, 62 data exceptions, and 0 imports running. The main area contains a table with the following data:

Blastblock Id	Ore Type	Start Date	End Date	Start Tonnes	Actuals (Haulage)	Remaining Tonnes (Actual - Blast Block Tonnes)	Depleted Blast Block	Depleted Reserve	Depleted Resource
CE-629-550-2	HG	17-Jun-2008	22-Jun-2008	42,393	33,133	9,259	42,393	46,165	46,163
CE-629-550-3	HG	18-Jun-2008	20-Jun-2008	18,050	15,280	2,771	794	863	868
CE-629-550-4	HG	16-Jun-2008	20-Jun-2008	6,280	3,618	2,662	82	114	115
CE-629-550-5	HG	20-Jun-2008	22-Jun-2008	11,488	9,877	1,611	528	602	606
CE-629-550-6	WS	20-Jun-2008	20-Jun-2008	17,490	4,057	13,423	17,246	18,511	18,697
CE-629-551-1	HG	16-Jun-2008	18-Jun-2008	34,383	26,333	8,050	103	105	105
CE-629-551-2	HG	18-Jun-2008	19-Jun-2008	15,460	10,753	4,707	15,460	16,860	16,848
CE-629-551-3	HG	19-Jun-2008	20-Jun-2008	21,543	14,892	6,651	2,047	2,263	2,281
CE-629-551-4	HG	20-Jun-2008	20-Jun-2008	15,186	10,190	3,036	1,859	1,939	1,962
CE-629-551-5	HG	21-Jun-2008	22-Jun-2008	7,167	6,978	189	867	851	865
CE-629-551-6	HG	16-Jun-2008	18-Jun-2008	9,077	7,006	2,072	18	16	16
CE-629-551-7	WS	18-Jun-2008	18-Jun-2008	3,785	525	3,260	2,021	1,628	1,599

## 3.2 Blastblock Tree

The Blastblock tree view screen is very similar to the blastblock list view, displaying the same information in a hierarchical structure (Figure 3.2). The tree view is able to accommodate large sets of data, allowing users to open only the areas they need to review. As in the Blastblock list, each blastblock name links to the details of that blastblock.

The Blastblock tree does not provide the ability to filter the data.

**Figure 3.2 Blastblock – Blastblock Tree View**

The screenshot shows a software interface titled 'Blastblock Tree' under the 'Blastblock Menu'. A message at the top indicates 32 haulage errors, 62 data exceptions, and 0 imports running. The main area contains a tree view with the following structure:

- CE-629-550/
  - CE-629-550-1
  - CE-629-550-2
  - CE-629-550-3
  - CE-629-550-4
  - CE-629-550-5
  - CE-629-550-6
- CE-629-551/
  - CE-629-551-1
  - CE-629-551-2
  - CE-629-551-3
  - CE-629-551-4
  - CE-629-551-5
  - CE-629-551-6
  - CE-629-551-7

### 3.3 View Blastblocks

To view a blastblock the user can click on the Blastblock ID hyperlink in both the list and tree views.

The View Blastblock area allows the user to view three different sets of information on the selected blastblock:

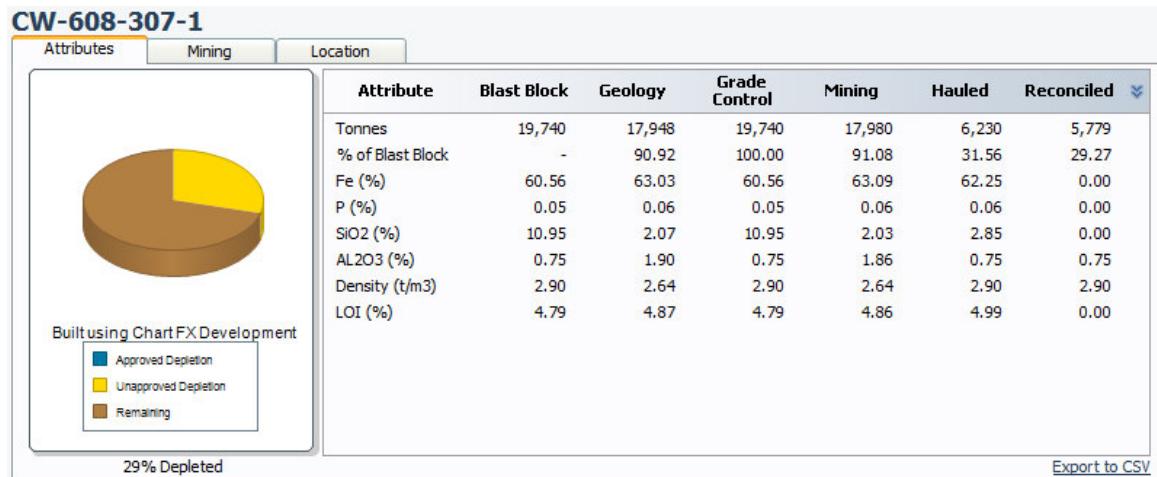
- Attributes
- Mining activities
- Location information.

#### 3.3.1 Attributes

The View Blastblock Attributes screen allows the user to view all attributes associated with predicted data for the selected blastblock across several models, as well actual Hauled, and Reconciled tonnes.

Figure 3.3 shows the modelled actual comparison for one blastblock tonnes and grades.

**Figure 3.3 Blastblock – Attributes**



#### 3.3.2 Mining

The user can click on the ‘Mining’ tab to view the mining activity for the selected date range. This screen displays any haulage records related to the blastblock between the dates specified in the filter.

The columns displayed are Mined Date, Mined Shift, Source, Destination and Tonnes as can be seen in Figure 3.4. The user can order the column data by clicking on the column title.

**Figure 3.4 Blastblock – Mining**

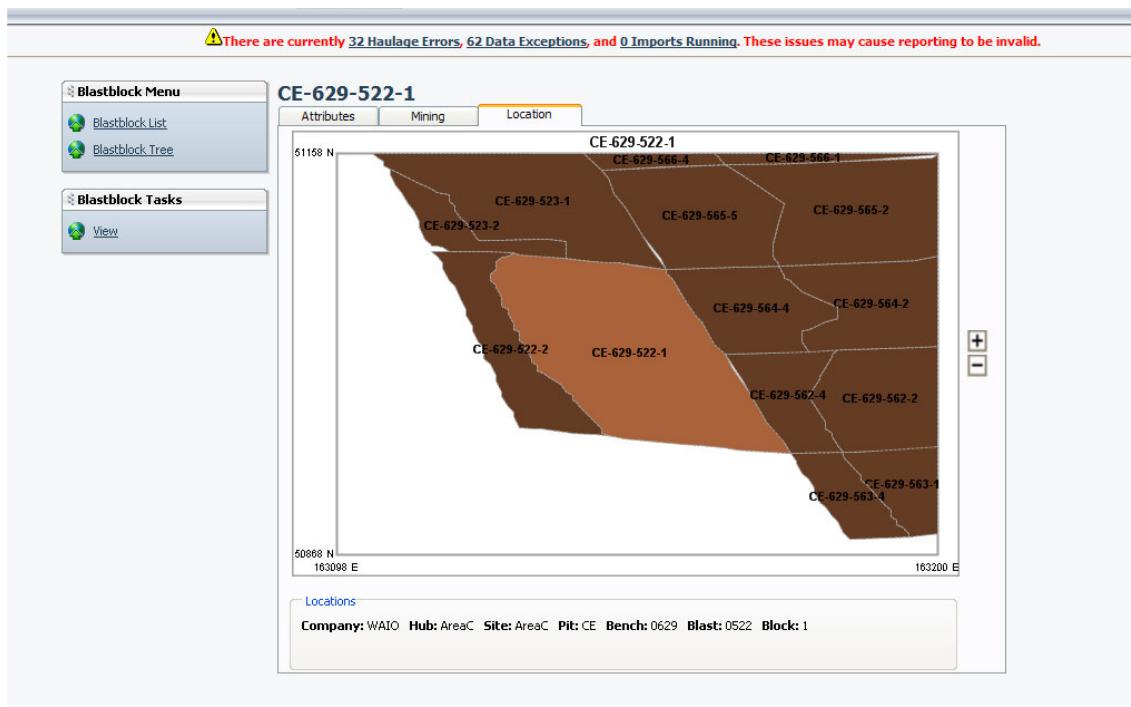
CW-608-307-1				
Attributes	Mining	Location		
Filter Haulage				
Date From:		Date To:		Filter
Mined Date	Mined Shift	Source	Destination	Tonnes
28-Jun-2008 12:00 AM	D	CW-608-307-1	C1	6,230

[Export to CSV](#)

### 3.3.3 Location

The View Blastblock Location screen allows the user to obtain a plan view visual representation of the blastblock (Figure 3.5). From this view the user can zoom in and out as well view and navigate to surrounding Blastblocks. The user can select a Blastblock from the plan and a new browser window will open with the associated Blastblock Attribute screen.

The location will be displayed beneath the plan view.

**Figure 3.5 Blastblock – Location**

## 4 Stockpiles

The Stockpiles screen shows a summary of the current tonnes on a stockpile based on production, survey and trucking information. It also shows the tonnes added for the current month.

By clicking the stockpile name hyperlink users can view detailed information about the stockpile.



Common task which can be completed within the Stockpile Tasks include:

- View the modelling type on a stockpile
- View manual adjustments list



Stockpiles can be grouped by the Administrator through the Utilities section.

### 4.1 Filter Stockpiles

The user can filter the Stockpile list by choosing a location, choosing to only show open, closed or all stockpiles of a specific material type or all material types (Figure 4.1). Stockpile name can also be filtered, showing stockpiles that have a similar name. The Stockpile start date can also be filtered on. Once the user has specified the filter as required they then press ‘Filter’ to update the results displayed.

**Figure 4.1 Stockpile – Filter Stockpile**

Stockpile Menu
Stockpile List

Filter Stockpiles

Location:  Up One Level

Location Detail: No location has been selected.

View: Open Stockpiles

Start Date From:

Start Date To:

Stockpile Name:  Group Stockpiles:

Limit Records:  Filter

Stockpile Name	Description	Current Tonnes	Is Completed	Added This Month
<u>Pre Crusher</u>				
<u>06DF1001</u>	Dead Dead Fines	-207,696	<input type="checkbox"/>	7,894
<u>06DL2001</u>	Dead Dead Lump	-4,820	<input type="checkbox"/>	
<u>07DF1001</u>	Dead Dead Fines West	-468,287	<input type="checkbox"/>	
<u>A-WASTE</u>	A deposit waste dump	3,337,650	<input type="checkbox"/>	
<u>CE-DET</u>	Detritals on CEast waste dump	0	<input type="checkbox"/>	
<u>CE-HC2</u>	HC2 CEast	-147,421	<input type="checkbox"/>	
<u>CE-LG</u>	LG Dump	73,290	<input type="checkbox"/>	
<u>CE-WS</u>	C East Waste Dump	154,128	<input type="checkbox"/>	
<u>CW-D-WASTE</u>	D Deposit Waste Dump	144,515	<input type="checkbox"/>	
<u>CW-DET-ROM</u>	Detritals Dump on CW waste	7,441	<input type="checkbox"/>	
<u>CW-HC2</u>	HC2 Stackpile ON ROM	-107,928	<input type="checkbox"/>	
<u>CW-LG-WS</u>	LG Dump on WS_WEST	0	<input type="checkbox"/>	
<u>CW-MM-01</u>	Wet Weather S/Pile NOW MM stockpile	-108,728	<input type="checkbox"/>	
<u>CW-WA-01</u>	WA1 Finger on ROM	-197,704	<input type="checkbox"/>	
<u>CW-WS-WEST</u>	Waste Dump	17,385	<input type="checkbox"/>	
<u>EE-DET</u>	E-Dep Detrital ore	7,038	<input type="checkbox"/>	
<u>EE-HC2</u>	HC2 EEast	-503,818	<input type="checkbox"/>	
<u>EE-LG</u>	E East LG	62,635	<input type="checkbox"/>	
<u>EE-WS</u>	E deposit waste dump	2,151,766	<input type="checkbox"/>	
<u>EE-WS-CENTR</u>	E deposit central waste dump	3,147,933	<input type="checkbox"/>	
<u>EE-WS-ROM</u>	Rom pad E East	0	<input type="checkbox"/>	

[Export to CSV](#)

## 4.2 View Stockpiles

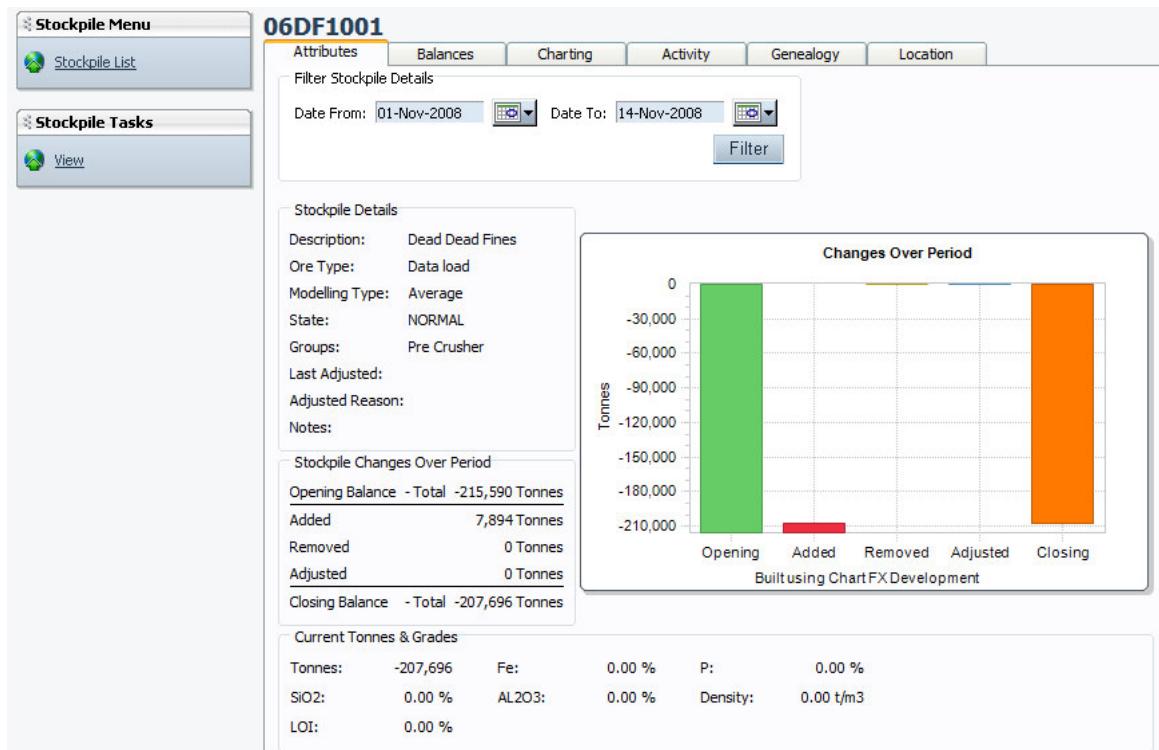
The stockpile details can be displayed by clicking on the stockpile name hyperlink. The View Stockpile Area allows the user to view information about a particular Stockpile including:

- Attributes
- Balances
- Charting
- Activity
- Genealogy
- Location

### 4.2.1 Attributes

The View Stockpile attributes screen allows the user to view the details of the stockpile including its modelling type, state, the stockpile groups it exists in as well as its current tonnes and grades and the stockpile changes over the period specified in the filter box as can be seen in Figure 4.2

**Figure 4.2 Stockpile – Attributes**



#### 4.2.2 Balances

The View Stockpile balances screen displays closing balances as well as additions and removals to and from the stockpile for the period specified in the filter box.

It displays information on a day level showing the tonnes and grade information for each day included in the filter range.

An example of this can be seen in the (Figure 4.3).

**Figure 4.3 Stockpile – Balances**

Date	Tonnes	Fe	P	SiO2	Al2O3	Density	LOI
01-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
02-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
03-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
04-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
05-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
06-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
07-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
08-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
09-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
10-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
11-Nov-2008	-215,590	0.00	0.00	0.00	0.00	0.00	0.00
12-Nov-2008	-207,696	0.00	0.00	0.00	0.00	0.00	0.00
13-Nov-2008	-207,696	0.00	0.00	0.00	0.00	0.00	0.00

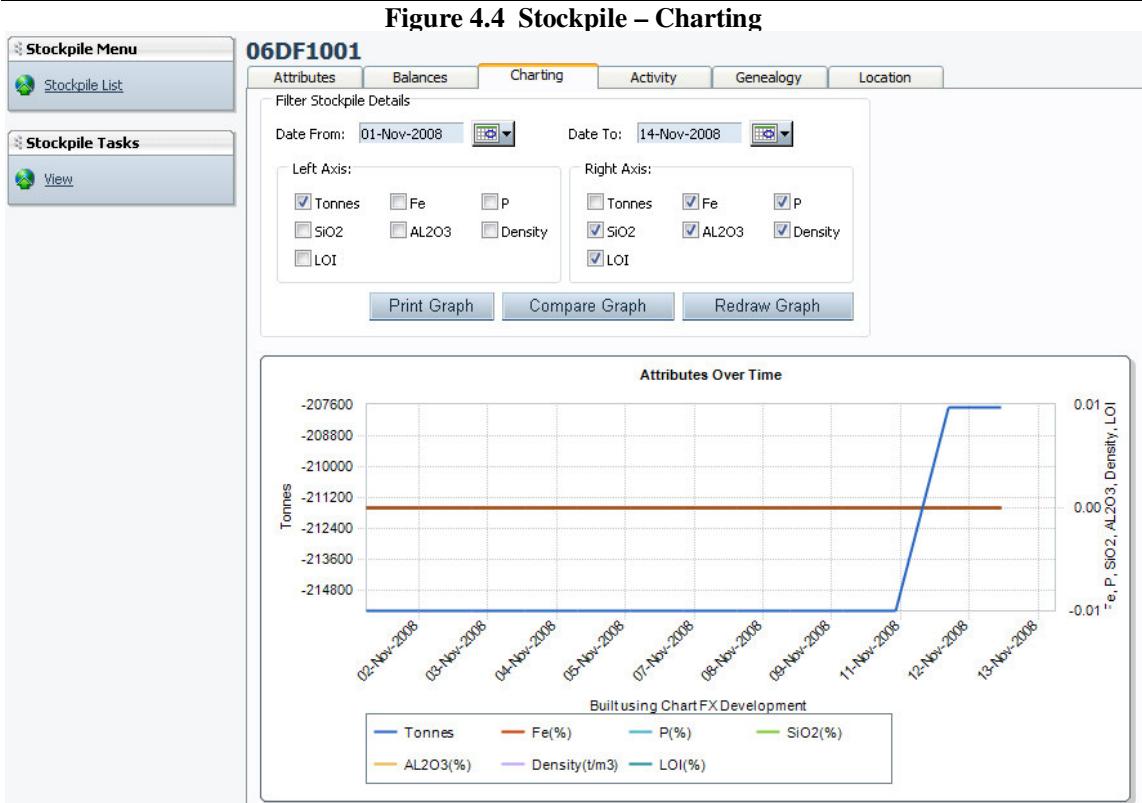
Date	Tonnes	Fe	P	SiO2	Al2O3	Density	LOI
12-Nov-2008	7,894	2.00	3.00	2.00	1.00	1.00	1.00
<b>Grand Total</b>	<b>7,894</b>	<b>2.00</b>	<b>3.00</b>	<b>2.00</b>	<b>1.00</b>	<b>1.00</b>	<b>1.00</b>

Date	Tonnes	Fe	P	SiO2	Al2O3	Density	LOI
<b>Grand Total</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

#### 4.2.3 Charting

The View Stockpile charting screen displays stockpile balance information such as tonnes and grades values over a period of time specified by the filter. The chart will be displayed as seen in Figure 4.4 allowing the user to utilise two different scales on the left and right axis.

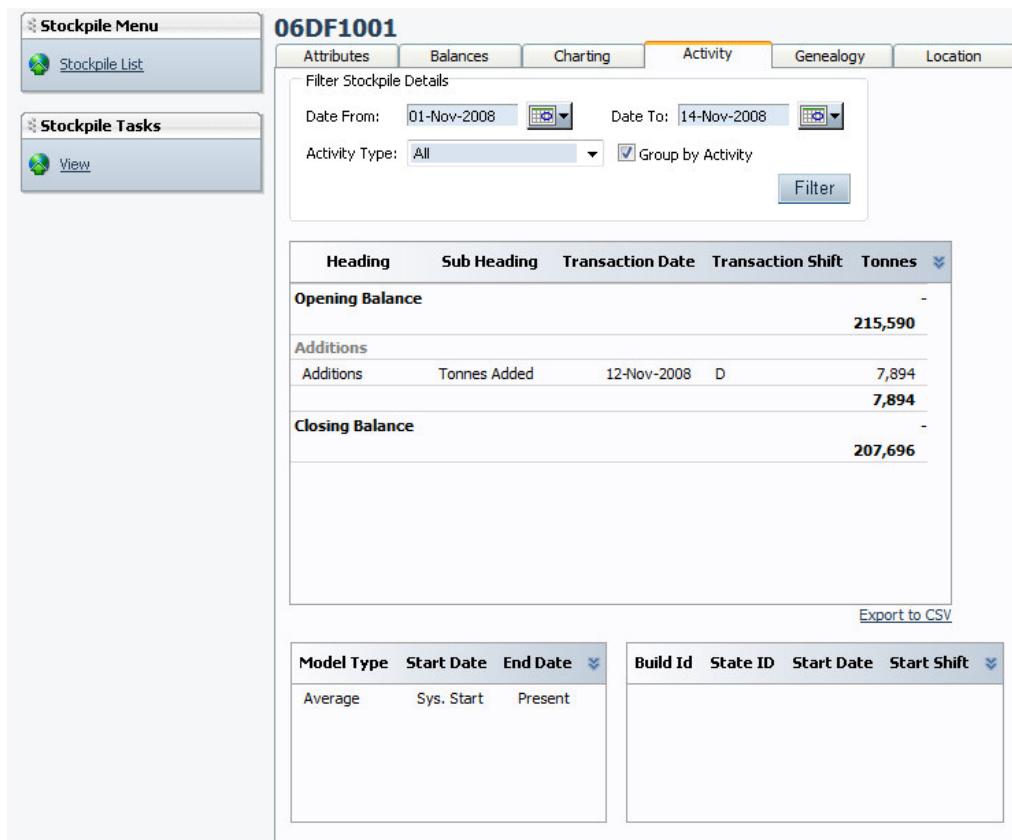


#### 4.2.4 Activity

The View Stockpile Activity screen allows the user to view stockpile activity for a given period. The user can filter and group by activity type if required (Figure 4.5). Activity Type can be filtered on the following:

- Additions to the stockpile
- Removals from the stockpile
- Adjustments to the stockpile
- Modelling Type Changes
- State Changes

At the bottom of the screen the current model type of stockpile is shown as well as modelling type changes that may have occurred over time. An additional table displays the build information associated with the stockpile.

**Figure 4.5 Stockpile – Activity**

#### 4.2.5 Genealogy

The View Stockpile genealogy screen shows a breakdown of the blastblocks that comprise the stockpile. Using the associated stockpiles modelling method (LIFO, FIFO, Average etc) the weighted grades of the included blastblocks can be tracked giving a better estimation of the material removed over the period specified by the filter.

The user can filter by date and shift as seen in (Figure 4.6).

**Figure 4.6 Stockpile – Genealogy**

The screenshot shows the 'Stockpile Menu' on the left with 'Stockpile List' selected. The main area is titled '06DF1001' and has tabs for 'Attributes', 'Balances', 'Charting', 'Activity', 'Genealogy' (which is selected), and 'Location'. A 'Filter Stockpile Details' section includes 'Date' (07-Nov-2008) and 'Shift' (Day). Below it is a table:

Summary	Tonnes	% of Total	Fe	P	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Density	LOI
Averaged Component	-215,590	100.00%						
Composition Summary		0.00%						
Stockpile Balance	-215,590	100.00%	0.00	0.00	0.00	0.00	0.00	0.00

At the bottom right of the table are 'Export to CSV' links. Below the table is another table header:

Original Source	Tonnes	% of Total	% of Digblock	Fe	P	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Density	LOI
-----------------	--------	------------	---------------	----	---	------------------	--------------------------------	---------	-----

At the bottom right of this area is another 'Export to CSV' link.

#### 4.2.6 Location

The View Stockpile location screen contains functionality to upload and display a photo of the stockpile (Figure 4.7).

**Figure 4.7 Stockpile – Location**

The screenshot shows the 'Stockpile Menu' on the left with 'Stockpile List' selected. The main area is titled '06DF1001' and has tabs for 'Attributes', 'Balances', 'Charting', 'Activity', 'Genealogy', and 'Location' (which is selected). A 'Filter Stockpile Details' section includes 'Date From' (07-Nov-2008) and 'Date To' (14-Nov-2008). Below it is a 'Locations' section with the text: 'Company: WAIO Hub: AreaC Site: AreaC'.

## 5 Approval

The Analysis Tab is defined to have the following functionality.

- Blastblock Validation & Approval
- F1F2F3 Validation & Approval
- Other Movements Validation & Approval

### 5.1 Blastblock Validation & Approval

This screen is used to approve the depleted tonnes from each blastblock mined in the period.

The user will be provided with the Mining, Geology and Grade Control model depleted tonnes followed by Hauled and Best Tonnes for each Blastblock which has had activity in the period specified in the filter (Figure 5.1). The user can then sign off against each Blastblock by clicking the approved box which will then put their name in the Sign Off column.

Approval of this information will lock the imports for this information preventing updates from being received. This is to ensure the data reported does not change after the reporting has been approved/signed.

The F1 approval cannot proceed unless this process has been completed successfully.

The Blastblock will be hyperlinked back to the attributes page for that block.

Approvals can be rolled back / undone (only by the system administrator), which will enable the system to collect data changes for the period again.

The user can filter by month, year and location as seen below.

**Figure 5.1 Approval - Blastblock Validation & Approval**

The screenshot shows the 'Blastblock Validation & Approval' interface. At the top, a message states: 'There are currently 32 Haulage Errors, 62 Data Exceptions, and 0 Imports Running. These issues may cause reporting to be invalid.' On the left, a 'Depletion Menu' includes links for 'Blastblock Validation & Approval', 'F1F2F3 Validation & Approval', and 'Other Movements Approval'. The main area features a 'Validation Filter' section with dropdowns for 'Month' (April 2008), 'Location' (Pit: CE), and 'Location Detail' (Company - WAIO, Hub - AreaC, Site - AreaC). A checked checkbox 'Limit Records' is also present. Below the filter is a table titled 'Blastblock Validation & Approval' with columns: Blastblock, Mining, Geology, Grade Control, Hauled, Best Tonnes, and Sign Off. The table lists several blastblocks with their respective values and approval checkboxes. At the bottom right of the table are buttons for 'Export to CSV' and 'Update Approved Status'.

Blastblock	Mining	Geology	Grade Control	Hauled	Best Tonnes	Sign Off
CE-629-552-4	356	356	386			
CE-629-552-8	162	161	151			
CE-632-522-1	124	123	122			
CE-632-522-2	278	275	270			
CE-632-522-3	263	259	256			
CE-632-523-1	492	490	487			
CE-632-523-2	577	573	559			
CE-632-524-1	381	379	388			
CE-632-524-2	13	13	13			
CE-632-524-3	779	775	759			
CE-632-525-2	519	508	493			

## 5.2 F1F2F3 Validation & Approval

This screen is used to sign off against the validation of F1, F2, F3 tonnes and grades and supporting data (Figure 5.2).

The user enters the date range they wish to validate and approve and then can sign off each designation by clicking on the Approved check box. It will then sign off that item and display the users name in the Sign Off column.

The F1 approval cannot proceed if the Blastblock validation has not been approved first.

A site needs to optionally display the beneficiation details, if the site has been flagged as having a beneficiation process.

F3 can only be approved by users assigned to a role with the WAIO admin permission classified as BHPBIO level. General HUB and Site users will not be able to approve these.

Approval of this information will lock the imports for this information preventing updates from being received. This is to ensure the data reported does not change after the reporting has been approved-signed.

Approvals can be rolled back / undone (only by the system administrator), which will enable the system to collect data changes for the period again.

**Figure 5.2 Approval – F1F2F3 Validation & Approval**

The screenshot shows the 'F1F2F3 Validation & Approval' page. On the left is a 'Depletion Menu' with options: Blastblock Validation & Approval, F1F2F3 Validation & Approval (selected), and Other Movements Approval. The main area has a 'Validation Filter' section with dropdowns for Month (September 2008), Location (Hub: AreaC - site(s) added to dropdown), and Location Detail (Company - WAIO Hub - AreaC). A 'Refresh' button is also present. Below is a large table with columns: Description, Tonnes, Fe, P, SiO2, Al2O3, LOI, Approved, and Signoff. The table contains data for Geology Model, F1 - Grade Control Model / Mining Model, F2 - Mine Production (Expit) / Grade Control Model, and F3 - Ore Shipped / Mining Model Shipping Equivalent. Each row includes an 'Approved' checkbox in the last column.

Description	Tonnes	Fe	P	SiO2	Al2O3	LOI	Approved	Signoff
Geology Model	2,178,942	62.9747	0.0608	2.3934	1.5921	5.5535	<input type="checkbox"/>	
<b>F1 - Grade Control Model / Mining Model</b>	<b>1.00</b>	<b>1.00</b>	<b>0.98</b>	<b>1.06</b>	<b>1.00</b>	<b>1.00</b>	<input type="checkbox"/>	
Grade Control Model	2,139,184	62.9179	0.0597	2.5742	1.5873	5.5251	<input type="checkbox"/>	
Mining Model	2,134,222	62.9511	0.0608	2.4361	1.5900	5.5365	<input type="checkbox"/>	
<b>F2 - Mine Production (Expit) / Grade Control Model</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<input type="checkbox"/>	
Mine Production Expit Equivalent (C-z+y)	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
C: Mine Production Actuals	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
y: Ex-pit to Ore Stockpile Movements	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
z: Stockpile to Crusher Movements	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
Grade Control Model	2,139,184	62.9179	0.0597	2.5742	1.5873	5.5251	<input type="checkbox"/>	
<b>F3 - Ore Shipped / Mining Model Shipping Equivalent</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<input type="checkbox"/>	
Ore Shipped	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
Mining Model Shipping Equivalent (MMCE - Post Crusher + Blend - Port)	2,134,222	62.9511	0.0608	2.4361	1.5900	5.5365	<input type="checkbox"/>	
Mining Model Crusher Equivalent (A-y+z)	2,134,222	62.9511	0.0608	2.4361	1.5900	5.5365	<input type="checkbox"/>	
A: Mining Model	2,134,222	62.9511	0.0608	2.4361	1.5900	5.5365	<input type="checkbox"/>	
y: Ex-pit to Ore Stockpile Movements	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
z: Stockpile to Crusher Movements	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
ΔPost-Crusher Stockpile	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
Port Blended Adjustment	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	
ΔPort Stockpiles	0	0.0000	0.0000	0.0000	0.0000	0.0000	<input type="checkbox"/>	

[Export to CSV](#)

## 5.3 Other Movement Approval & Validation

This screen is used to sign off against the validation of data. Each material movement not covered in the Data Validation and Approval screen are an additional row (Figure 5.3).

The user enters the date range they wish to validate and approve and then can sign off each designation by clicking on the Approved check box. It will then sign off that item and display the users name in the Sign Off column.

Approval of this information will lock the imports for this information preventing updates from being received. This is to ensure the data reported does not change after the reporting has been approved/signed.

Approvals can be rolled back / undone (only by a user with system admin role), which will enable the system to collect data changes for the period again.

The user can filter by month, year and location as seen below.

**Figure 5.3 Approval - Other Movement Validation & Approval**

Grade Control	Geology	Mining	Actuals - Movements to Stockpiles	Approved	Sign Off
Low Grade	250,460	920,663	737,267	0	<input type="checkbox"/>
<b>Total Ore</b>	<b>250,460</b>	<b>920,663</b>	<b>737,267</b>	<b>0</b>	<input type="checkbox"/>
Waste	13,508,599	11,899,720	12,458,749	0	<input type="checkbox"/>
Unknown	16,219	0	0	0	<input type="checkbox"/>
<b>Total Waste</b>	<b>13,524,818</b>	<b>11,899,720</b>	<b>12,458,749</b>	<b>0</b>	<input type="checkbox"/>

## 6 Analysis

The Analysis Tab is defined to have the following functionality:

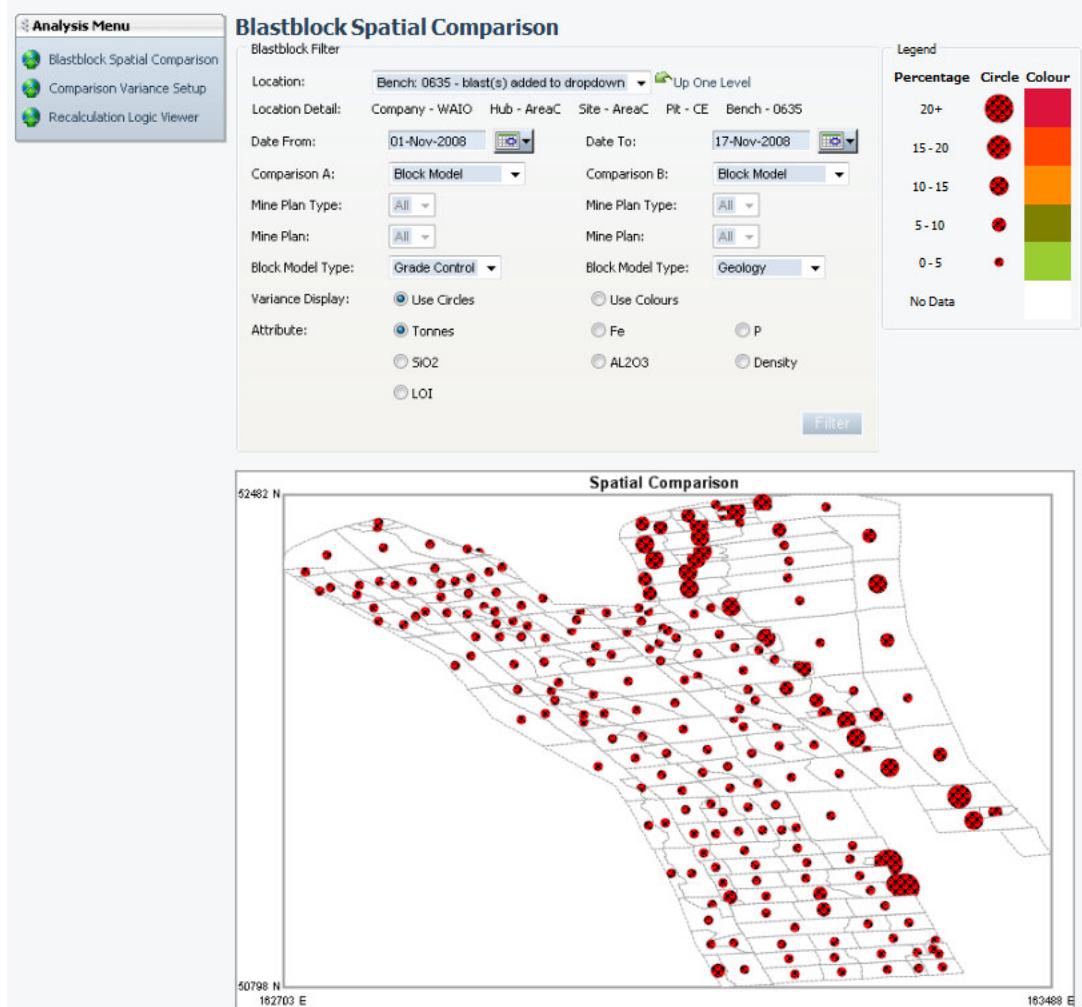
- Blastblock Spatial Comparison
- Comparison Variance Setup
- Recalculation Logic Viewer

### 6.1 Blastblock Spatial Comparison

The Blastblock Spatial Comparison screen provides the ability to compare data spatially based on variances between two data measures for a given location and date range. The variance can be represented by circles or colours specified in the variance setup screen (Figure 6.1).

There are five types of comparison, Blastblock Model, Mine Plan, Haulage, Survey and Reconciled numbers. Clicking the legend will direct you to the variance setup screen.

**Figure 6.1 Analysis – Blastblock Spatial Comparison**

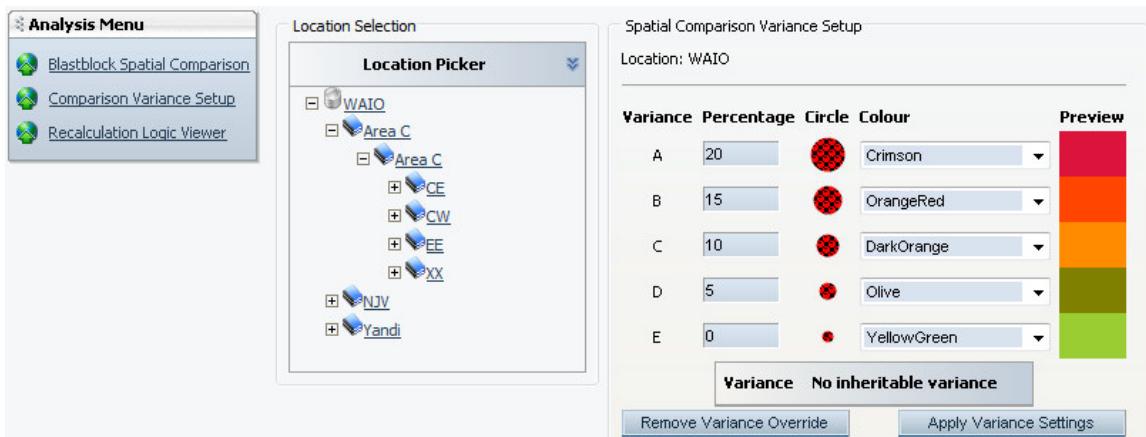


## 6.2 Spatial Comparison Variance Setup

The Spatial Comparison Variance Setup screen allows the user to modify the percentage brackets to use when rendering the visuals on the spatial comparison screen. For each bracket the user may also specify the colour to render the Blastblock as when its variance is within it (Figure 6.2).

The location filter allows the user to drill down to the Hub, Site and Pit levels

**Figure 6.2 Analysis – Comparison Variance Setup**



## 6.3 Recalculation Logic Viewer

The Recalculation Logic Viewer screen contains the full history of each transaction and their metamorphosis within RECONCILOR. The data being shown on this screen is produced by the recalculation engine as it processes or reprocesses the transaction. From this screen the user can filter the transactions by a given date, shift, source, destination or transaction type. The two transaction types are haulage and weightometer samples.

The list returned provides the user with a tree view for each individual transaction; its nodes can be expanded to drill down into the change history for that record (Figure 6.3). Under the summary records for each level there is the change history that the record went through to determine the summary record. On these records a view option is available for the user to view a full text description of the change and all attributes (tonnes and grades) side by side for comparison (Figure 6.4).

**Figure 6.3 Analysis – Recalculation Logic Viewer**

	Date	Shift	Transaction Type	Original Source	Original Destination	Orig Tonnes	New Tonnes	View
Summary	12-Nov-2008	D	Haulage	CE-626-551-1	06DF1001	7,894	7,894	
Summary Level 1								
Source/Destination Change								
Grade Assignment								
Grade Assignment								
Summary Level 2								

**Figure 6.4 Analysis – Recalculation Logic Viewer History**

Recalc Logic History Details		
Action:	Source/Destination Change	
<b>Long Description:</b> DataTransactionTonnes record 16119 generated from Haulage record 3568 has Destination changed from Stockpile 06DF1001 to Stockpile 06DF1001 Build 1 Component 1.		
Item	Old Value	New Value
Tonnes		
Fe		
P		
SiO2		
AL2O3		
Density		
LOI		

## 7 Port

The Port Tab is used to review the port inventories and shipping data imported into RECONCILOR.

The Port Tab including the following functionality:

- Shipping
- Port Blending
- Port Balances

### 7.1 Shipping

The shipping tab shows all the raw shipment records as collected from MES for the selected time period (Figure 7.1).

The user can filter by Date From and Date To as seen below.

**Figure 7.1 Port - Shipping**

Id	Nomination Key	Nomination	Date	Customer No	Customer Name	Hub Location Id	Product Code	Tonnes	Vessel Name	Hub Location Name	Fe	LoI	P	SiO2	▼
35	535,619	10	21-Apr-2008	301,000,104	INTERNATIONAL ECONOMIC AND TRADING	6	NHGL	65,544	BULK ASIA	NJV	64	3	0	4	▲
36	535,619	20	21-Apr-2008	301,000,104	INTERNATIONAL ECONOMIC AND TRADING	6	NHGF	102,116	BULK ASIA	NJV	63	3	0	5	▼
37	535,624	10	14-Apr-2008	301,000,104	INTERNATIONAL ECONOMIC AND TRADING	4	MACL	79,203	CAPE VENUS	AreaC	63	6	0	3	▲
38	535,624	20	14-Apr-2008	301,000,104	INTERNATIONAL ECONOMIC AND TRADING	4	MACF	91,031	CAPE VENUS	AreaC	62	6	0	3	▼
41	535,723	10	15-Apr-2008	301,000,106	Jiangsu Shagang Group Company Ltd	4	MACF	83,167	MINERAL ANTWERPEN	AreaC	62	6	0	3	▲
42	535,723	20	15-Apr-2008	301,000,106	Jiangsu Shagang Group Company Ltd	4	MACL	85,877	MINERAL ANTWERPEN	AreaC	63	6	0	3	▼
43	535,731	10	15-Apr-2008	301,000,145	Tangshan Iron & Steel (Group) Co	4	MACL	79,144	SHAGANG SUNRISE	AreaC	63	6	0	3	▲
44	535,731	20	15-Apr-2008	301,000,145	Tangshan Iron & Steel (Group) Co	4	MACF	87,349	SHAGANG SUNRISE	AreaC	61	6	0	4	▼
45	535,732	10	22-Apr-2008	301,000,145	Tangshan Iron & Steel (Group) Co	4	MACL	75,791	SA ALTIUS	AreaC	63	6	0	3	▲
46	535,732	20	22-Apr-2008	301,000,145	Tangshan Iron & Steel (Group) Co	4	MACF	93,708	SA ALTIUS	AreaC	61	6	0	4	▼
47	535,737	10	14-Apr-2008	301,000,117	MA STEEL INTERNATIONAL TRADE &	6	NHGL	70,333	SHAGANG FIRST	NJV	64	3	0	4	▼

## 7.2 Port Blending

The Port Blending tab shows all the raw port blending records as collected from MES for the selected time period (Figure 7.2).

The user can filter by Date From and Date To as seen below.

**Figure 7.2 Port – Port Blending**

Id	Move Hub Location Id	Destination Hub Location Id	Start Date	End Date	Load Sites	Tonnes	Move Hub Location Name	Destination Hub Location Name				
									Fe	Loi	P	SiO2
1	6	2	01-Apr-2008	30-Apr-2008	25	419	NJV	Yandi	62	3	0	5
2	4	6	01-Apr-2008	30-Apr-2008	AC	3,273	AreaC	NJV	61	7	0	4
3	4	2	01-Apr-2008	30-Apr-2008	AC	4,856	AreaC	Yandi	62	6	0	3
4	6	2	01-Apr-2008	30-Apr-2008	MW	1,914	NJV	Yandi	65	1	0	4
5	2	4	01-Apr-2008	30-Apr-2008	YD	6,507	Yandi	AreaC	58	9	0	5
6	2	6	01-Apr-2008	30-Apr-2008	YD	117	Yandi	NJV	58	10	0	5
7	6	6	01-Apr-2008	30-Apr-2008	YR	27,654	NJV	NJV	61	4	0	6

[Export to CSV](#)

## 7.3 Port Balances

The Port Balances tab shows all the monthly port balances as collected from MES for the selected time period (Figure 7.3). The user can filter by Date From and Date To as seen below.

**Figure 7.3 Port – Port Balances**

Id	Hub Location Id	Balance Date	Tonnes	Hub Location Name				
1	4	30-Apr-2008	1,134,887	AreaC				
2	6	30-Apr-2008	1,619,016	NJV				
3	2	30-Apr-2008	1,988,522	Yandi				

[Export to CSV](#)

## 8 Reports

The Report Tab is defined to have the following functionality.

- Report List
- Report Management

### 8.1 Report List

There are three standard reports including:

- Haulage Vs Plant Report
- Monthly Material Movement Report
- Stockpile Balance

There are seven BHPBIO reports including:

- Blast by Blast Reconciliation
- F1F2F3 Reconciliation By Attribute Report
- Grade Recovery Report
- Model Comparison Report
- Movement Recovery Report
- Recovery Analysis Report
- F1F2F3 HUB Reconciliation Report

Each report can be displayed in the following formats:

- Adobe PDF File
- Microsoft Excel File

Each report contains an explanation section describing the functionality of the report including the data fields used and what they mean.

### 8.1.1 Haulage Vs Plant Report

The 'Haulage Vs Plant Report' gives a comparison of the haulage tonnes to the plant tonnes for a selected period (Figure 8.1). It displays where the haulage tonnes originate from. This can be either the blastblock or the stockpile (Figure 8.2).

**Figure 8.1 Reports – Haulage Vs Plant Report Parameters**

Haulage Vs Plant Report

Report Format: Adobe PDF File (best for printing and emailing) ▾

Start Date: 01-Apr-2008

End Date: 30-Apr-2008

Split By Shift:

Summary:

View Data Warnings:

**Run Report**

**Figure 8.2 Reports – Haulage Vs Plant Report**

**bhpbilliton**

**HAULAGE vs. PLANT REPORT**

Date: 01-Apr-2008 To: 01-May-2008

**HAULAGE VS WEIGHTMETER TONNES TO AreaC Crusher 1**

Date	From Digblocks	From Stockpile	Total	Weightmeter	Variance
01 Apr 2008	38,813	18,275	57,088	18,454	-208.35 %
02 Apr 2008	36,922	19,460	56,382	75,250	25.07 %
03 Apr 2008	44,675	17,322	61,997	33,605	-44.49 %
04 Apr 2008	58,614	5,045	63,659	26,650	-138.87 %
05 Apr 2008	44,452	7,189	51,641	52,497	1.63 %
06 Apr 2008	36,447	14,463	50,910	70,790	28.08 %
07 Apr 2008	51,253	10,618	61,871	75,410	17.95 %
08 Apr 2008	48,323	11,378	59,701	7,211	-727.92 %
09 Apr 2008	30,755	2,730	33,485	43,160	22.42 %
13 Apr 2008	23,395	6,425	29,820	38,140	21.81 %
14 Apr 2008	34,208	16,555	50,763	21,330	-137.99 %
15 Apr 2008	44,973	24,372	69,345	88,630	21.76 %
16 Apr 2008	43,846	24,120	67,966	63,324	-7.33 %
17 Apr 2008	58,786	20,325	79,111	97,300	18.69 %

### 8.1.2 Monthly Material Movement Report

The Monthly Material Movement Report gives a comparison of the tonnes removed for a blastblock as estimated by Reserve or Grade Control and measured by Haulage and Survey for a given report year (Figure 8.3). The results are grouped by Material Type (Figure 8.4).

**Figure 8.3 Reports – Monthly Material Movement Report Parameter**

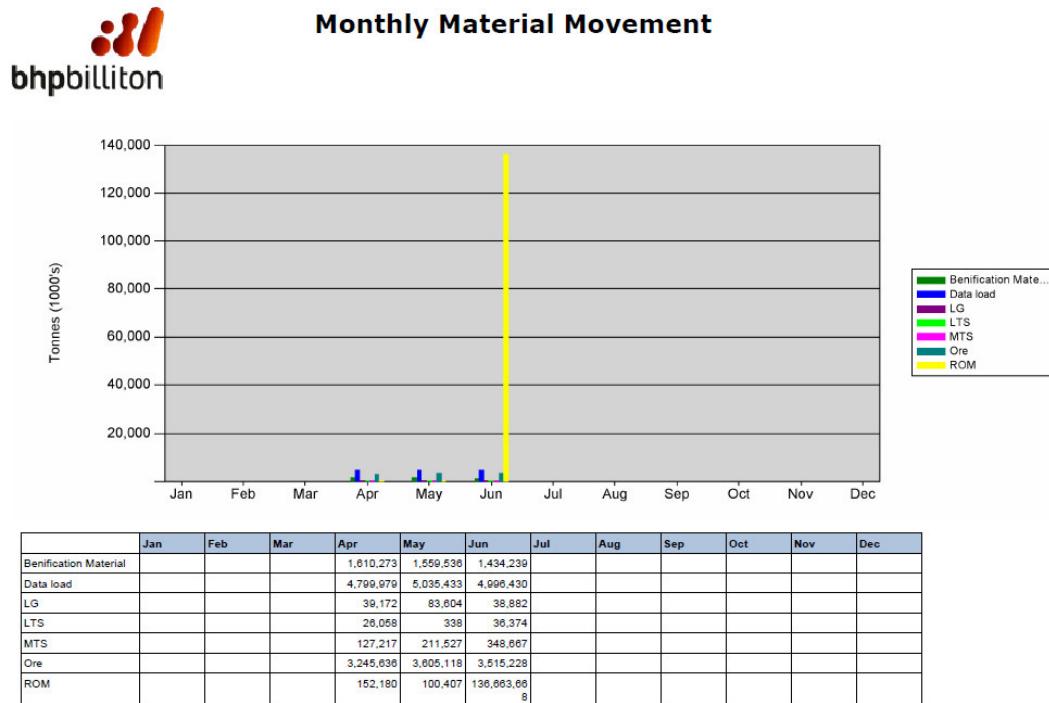
Monthly Material Movement Report

Report Format:

Report Year:

View Data Warnings:

**Figure 8.4 Reports – Monthly Material Movement Report**



### 8.1.3 Stockpile Balance

The Stockpile Balance report lists the stockpile balances within a given date range, shift and stockpile (Figure 8.5 and Figure 8.6).

**Figure 8.5 Reports – Stockpile Balance Parameters**

Stockpile Balance

Report Format: Adobe PDF File (best for printing and emailing)

Stockpile Id: All

Start Date: 01-Jan-2008

Start Shift: Day

End Date: 01-Aug-2008

End Shift: Day

Is Visible:

Sort By: Material Type

View Data Warnings:

Run Report

**Figure 8.6 Reports – Stockpile Balance Report Parameters**

**Stockpile Balance Report**

Stockpile	Opening Balance	Added	Removed	Stockpile Adjustment	Closing Balance
06DL2001	0	0	4,820	0	-4,820
08001G3	0	594,836	625,615	0	-30,779
08001G1	0	736,700	716,753	22,294	42,241
<b>Benification Material Total:</b>	<b>0</b>	<b>1,331,536</b>	<b>1,347,188</b>	<b>22,294</b>	<b>6,642</b>
WS_WEST_FM	0	0	0	0	0
07DF1001	0	0	468,287	0	-468,287
06DF1001	0	0	215,590	0	-215,590
EE-WS-ROM	0	0	0	0	0
F_ROAD	0	0	0	0	0
EE-WS-CENTR	0	9,443,769	0	30	9,443,799
CE-WS	0	308,256	0	0	308,256
EE-WS	0	6,455,298	0	0	6,455,298
A-WASTE	0	10,004,640	0	0	10,004,640

### 8.1.4 Blast By Blast Reconciliation Report

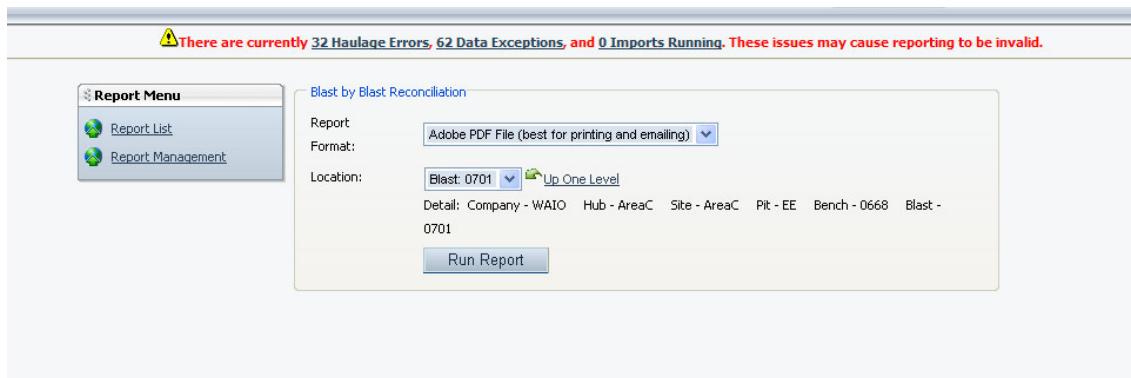
This is a BHPBIO Corporate report on the Blast by Blast reconciliation (Figure 8.7 and Figure 8.8). The tables at the top of the report plot the models against material types and include “Model Comparison”, “Tonnes Differences” and “Model Recovery” percent for tonnes on the top row and volume on the next row.

Two bar charts follow plotting GM vs BBM and MM vs BBM followed by the comments recorded by the geologists.

The Grade Comparison section shows a series of graphs, one for each material type which compares grade against the models.

A map of the Blastblock is shown with the F1 tonnes to show the location of the blast in the pit.

**Figure 8.7 Reports – Blast By Blast Reconciliation Report Parameters**



**Figure 8.8 Reports – Blast By Blast Reconciliation Report**



**Blast by Blast Reconciliation Report**

Blast Location: AreaC: EE-0668-0701

			Tonnes	Fe%	P%	SiO2%	Al2O3%	LOI%																																																																											
(GC/MM) F1Factor																																																																																			
<b>MODEL COMPARISON (Tonnes)</b>			<b>TONNES DIFFERENCE</b>	<b>MODEL RECOVERY (%)</b>																																																																															
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### 8.1.5 F1F2F3 Reconciliation by Attribute Report

This is a BHPBIO Corporate report providing more in-depth look at the F1F2F3 Reconciliation.

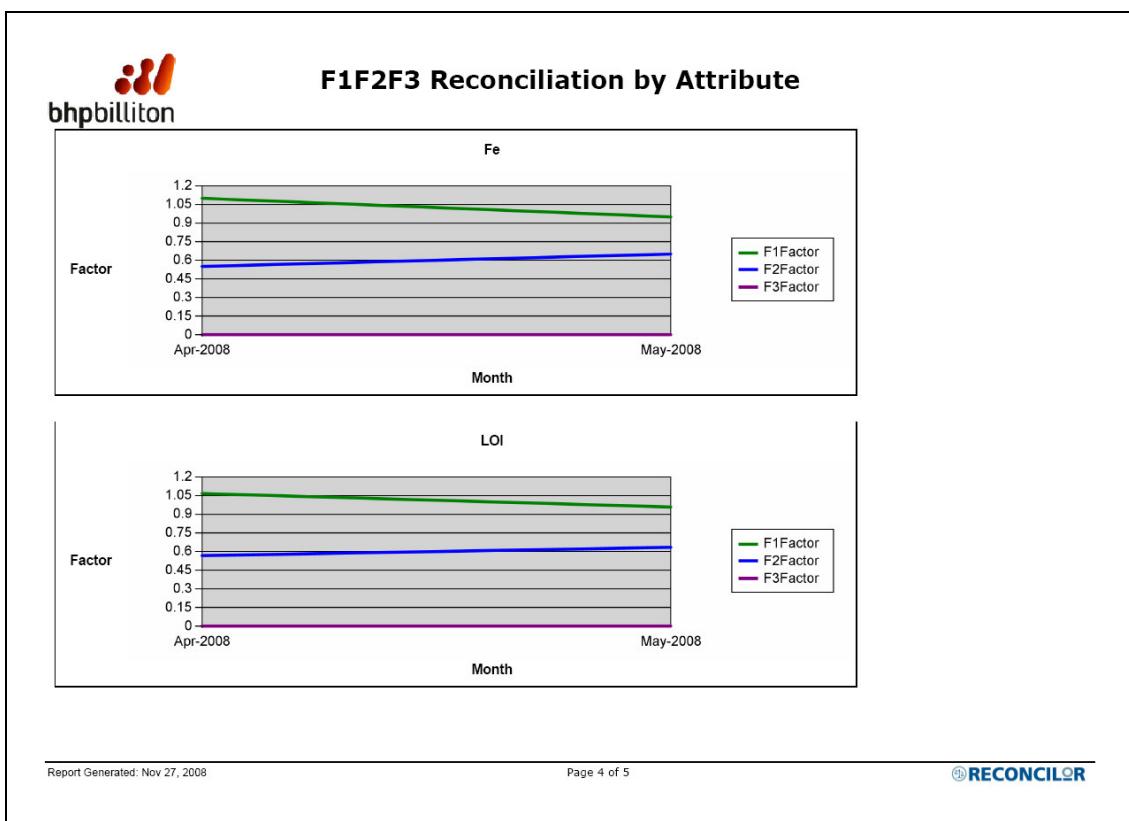
Tabulated data of Geology Model, Mining Model, Grade Control Model, Mine Production (Actuals) and Ore Shipped will be displayed for the selected attributes as filters (Figure 8.9 and Figure 8.10).

A line chart providing information on the F1F2F3 over time with thresholds indicated is displayed below the table.

**Figure 8.9 Reports – F1F2F3 Reconciliation by Attribute Report Parameters**

The screenshot shows the 'F1F2F3 Reconciliation By Attribute Report' configuration window. At the top, a message box displays: '⚠ There are currently 32 Haulage Errors, 62 Data Exceptions, and 0 Imports Running. These issues may cause reporting to be invalid.' On the left, a 'Report Menu' sidebar includes 'Report List' and 'Report Management' options. The main configuration area includes:

- Report Format:** Adobe PDF File (best for printing and emailing)
- Date From:** April 2008
- Date To:** May 2008
- Date Breakdown:** Month
- Location:** Pit: CE (with a 'Up One Level' link) - Detail: Company - WAIO Hub - AreaC Site - AreaC Pit - CE
- Attributes:** Tones, Fe, P, SiO2, Al2O3, LOI (checkboxes checked)
- Factors:** Geology Model, Mining Model, Grade Control Model, Mine Production Expit Equivalent, Mining Model Crusher Equivalent, ΔPost-Crusher Stockpile, Ore Shipped, Mining Model Shipping Equivalent, F1 - Grade Control Model / Mining Model, F2 - Mine Production (Expit) / Grade Control Model, F3 - Ore Shipped / Mining Model Shipping Equivalent (checkboxes checked)
- Buttons:** [Check All] [Un-check All], Run Report

**Figure 8.10 Reports – F1F2F3 Reconciliation by Attribute Report**

### 8.1.6 Grade Recovery Report

This is a BHPBIO Corporate report to display the grade recovery. Mine Production (Actuals) can only be selected for Site, Hub or Company level (Figure 8.11).

A table with the Mining Model Dilution Accuracy, Mining Model Grade Accuracy and Measure of Mining Dilution is displayed against each material type and their grades (Figure 8.12).

This is followed by bar graphs which show the recovery percent and the recovery factor for the material types (Figure 8.13).

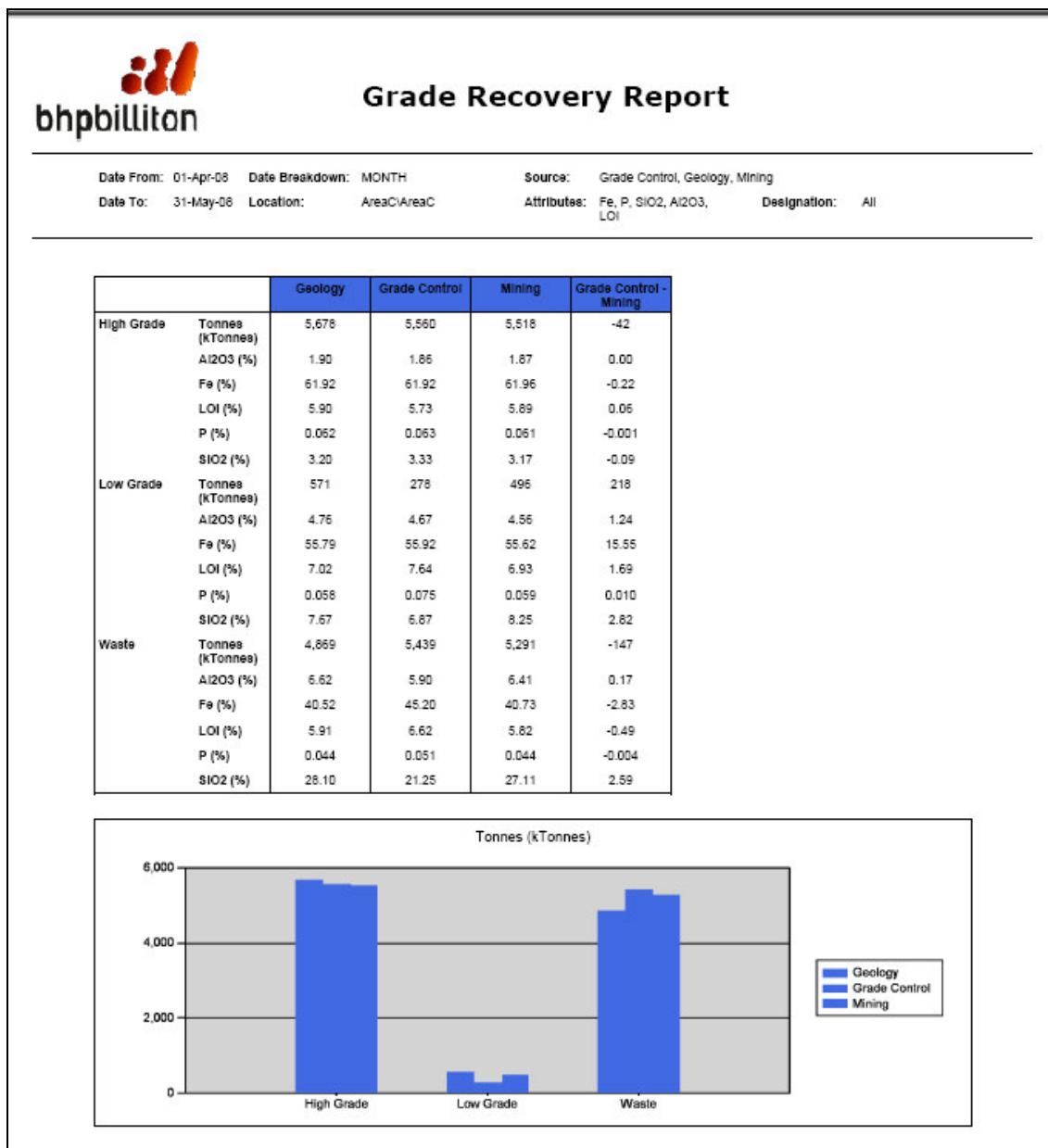
**Figure 8.11 Reports – Grade Recovery Report Parameters**

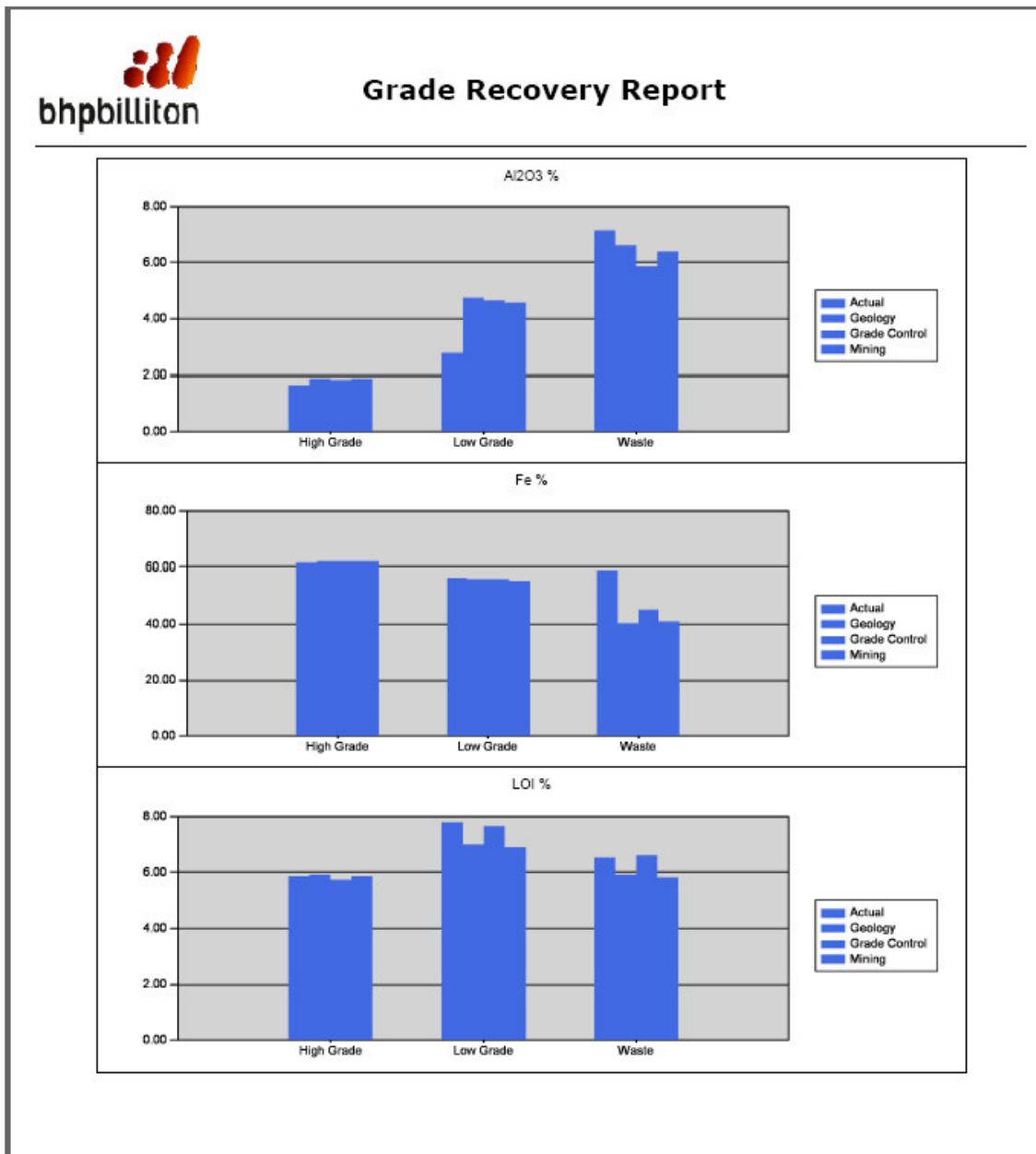
The screenshot shows the 'Grade Recovery Report' configuration interface. At the top, a warning message states: '⚠ There are currently 32 Haulage Errors, 62 Data Exceptions, and 0 Imports Running. These issues may cause reporting to be invalid.' On the left, a 'Report Menu' sidebar includes 'Report List' and 'Report Management'. The main panel contains the following fields:

- Report Format:** Adobe PDF File (best for printing and emailing)
- Date From:** April 2008
- Date To:** May 2008
- Date Breakdown:** Month
- Location:** Site: AreaC - pit(s) added to dropdown (with a 'Up One Level' link) | Detail: Company - WAIO Hub - AreaC Site - AreaC
- Source:** Grade Control Model, Geological Model, Mining Model, Mine Production (Actuals) (all checked)
- Designation:** All
- Attributes:** Tonnes, Fe, P, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, LOI (all checked)

At the bottom right is a 'Run Report' button.

Figure 8.12 Reports – Grade Recovery Report



**Figure 8.13 Reports – Grade Recovery Report Recovery % and Recovery Factor**

### 8.1.7 Model Comparison Report

This is a BHPBIO Corporate report to compare models in across the BHPBIO RECONCILOR instance (Figure 8.14 and Figure 8.15).

The table displays the Models as columns with each row provided the details for a number of material types. These material types are dependent on the site.

The line chart plots the model tonnes for a given material type over time.

**Figure 8.14 Reports – Model Comparison Report Parameters**

The screenshot shows the 'Model Comparison Report' configuration page. At the top, a warning message states: '⚠ There are currently 32 Haulage Errors, 62 Data Exceptions, and 0 Imports Running. These issues may cause reporting to be invalid.' On the left, a 'Report Menu' sidebar includes 'Report List' and 'Report Management'. The main form contains the following fields:

- Report Format:** Adobe PDF File (best for printing and emailing)
- Date From:** April 2008
- Date To:** May 2008
- Date Breakdown:** Month
- Location:** Pit: CE (with a 'Up One Level' link) - Detail: Company - WAIO Hub - AreaC Site - AreaC Pit - CE
- Source:** Grade Control Model, Geological Model, Mining Model, Mine Production (Actuals) (checkboxes checked)
- Designation:** All
- Attributes:** Tonnes, Fe, P, SiO2, Al2O3, LOI (checkboxes checked)

At the bottom right is a 'Run Report' button.

Figure 8.15 Reports – Model Comparison Report

**bhpbilliton**

### Model Comparison Report

Date From: 01-Apr-08    Location: AreaC/AreaC/CE    Source: Grade Control, Geology, Mining  
 Date To: 31-May-08    Date Breakdown: MONTH    Attributes: Fe, P, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, LOI    Designation: All

		Geology Model	Grade Control	Mining Model
High Grade	Tonnes (kTonnes)	2,643	2,680	2,575
	Al <sub>2</sub> O <sub>3</sub> (%)	1.81	1.82	1.75
	Fe (%)	62.53	62.37	62.53
	LOI (%)	5.65	5.70	5.82
	P (%)	0.069	0.066	0.069
	SiO <sub>2</sub> (%)	2.45	2.68	2.40
Low Grade	Tonnes (kTonnes)	223	137	167
	Al <sub>2</sub> O <sub>3</sub> (%)	5.54	4.91	5.22
	Fe (%)	55.61	55.61	55.27
	LOI (%)	7.40	8.52	7.75
	P (%)	0.065	0.070	0.071
	SiO <sub>2</sub> (%)	6.55	6.20	7.11
Waste	Tonnes (kTonnes)	2,530	2,461	2,655
	Al <sub>2</sub> O <sub>3</sub> (%)	9.49	8.48	9.21
	Fe (%)	45.61	47.19	46.10
	LOI (%)	7.44	7.80	7.32
	P (%)	0.052	0.051	0.052
	SiO <sub>2</sub> (%)	15.71	13.55	15.39

Designation: High Grade

High Grade for Tonnes (Kilotons)

Legend: Geology, Grade Control, Mining

Date	Geology	Grade Control	Mining
Apr-08	~1500	~1500	~1500
May-08	~1000	~1000	~1000

### 8.1.8 Movement Recovery Report

This is a BHPBIO Corporate report to track the material moved over a time period and compares it to forecast (Figure 8.16 and Figure 8.17).

The table provides the material types as columns plotted against 3 and 12 month rolling.

A bar chart displays which group the material types of the month rolling values against the percent recovery.

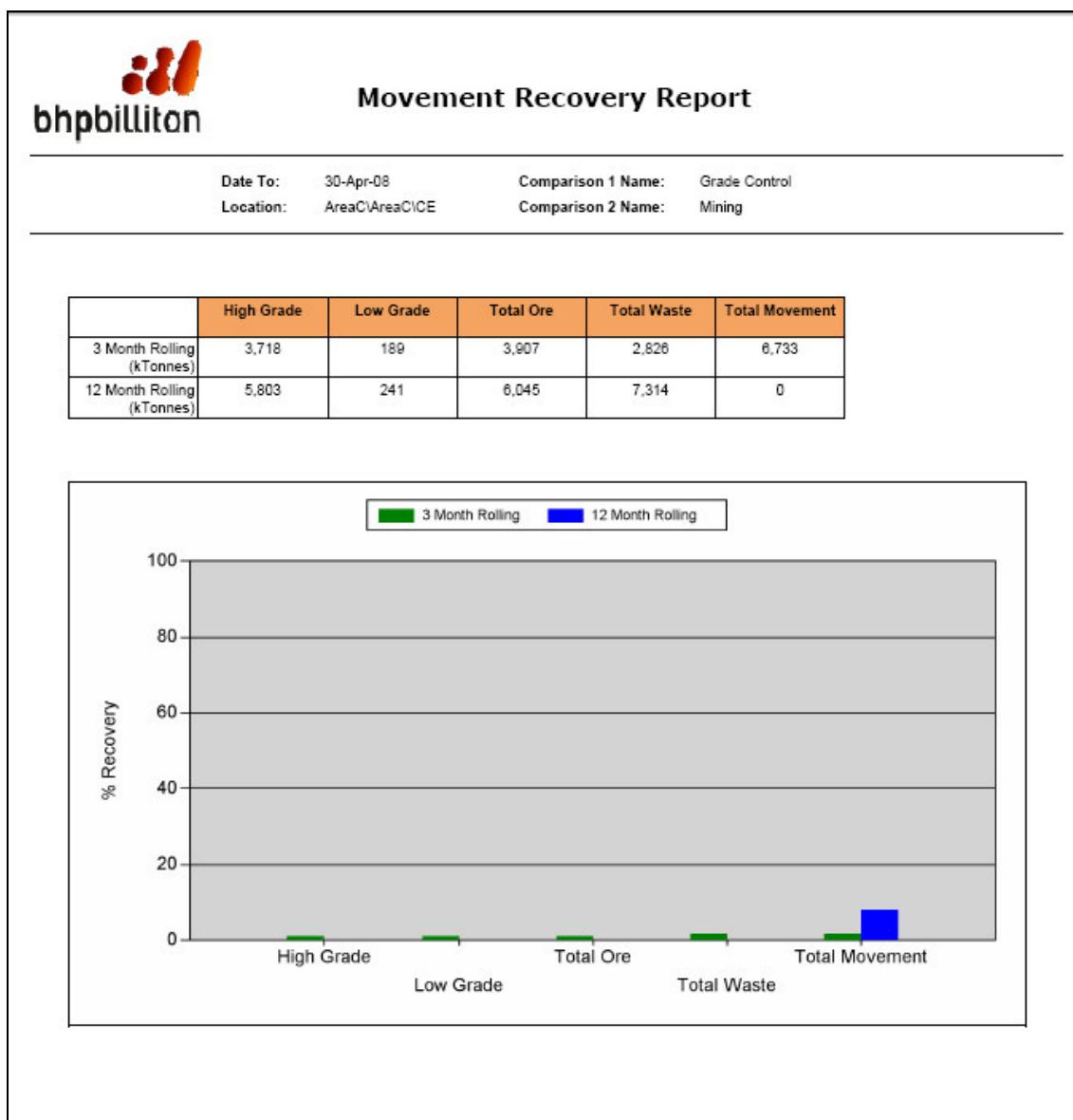
**Figure 8.16 Reports – Movement Recovery Report Parameters**

The screenshot shows the 'Movement Recovery Report' configuration interface. On the left, there's a 'Report Menu' sidebar with 'Report List' and 'Report Management' options. The main panel is titled 'Movement Recovery Report' and contains the following fields:

- Report Format: Adobe PDF File (best for printing and emailing)
- Date To: April 2008
- Location: Pit: CE (with a 'Up One Level' link)
- Detail: Company - WAIO Hub - AreaC Site - AreaC Pit - CE
- Comparison A: Grade Control Model
- Comparison B: Mining Model
- Run Report button

A red warning message at the top states: "⚠ There are currently 32 Haulage Errors, 62 Data Exceptions, and 0 Imports Running. These issues may cause reporting to be invalid."

Figure 8.17 Reports – Movement Recovery Report



### 8.1.9 Recovery Analysis Report

This is a BHPBIO Corporate report to track the material moved over a time period against models and designations (Figure 8.18 and Figure 8.19).

The report starts with a table displaying the material types for model comparison. This table's attributes are altered by the report filter parameters.

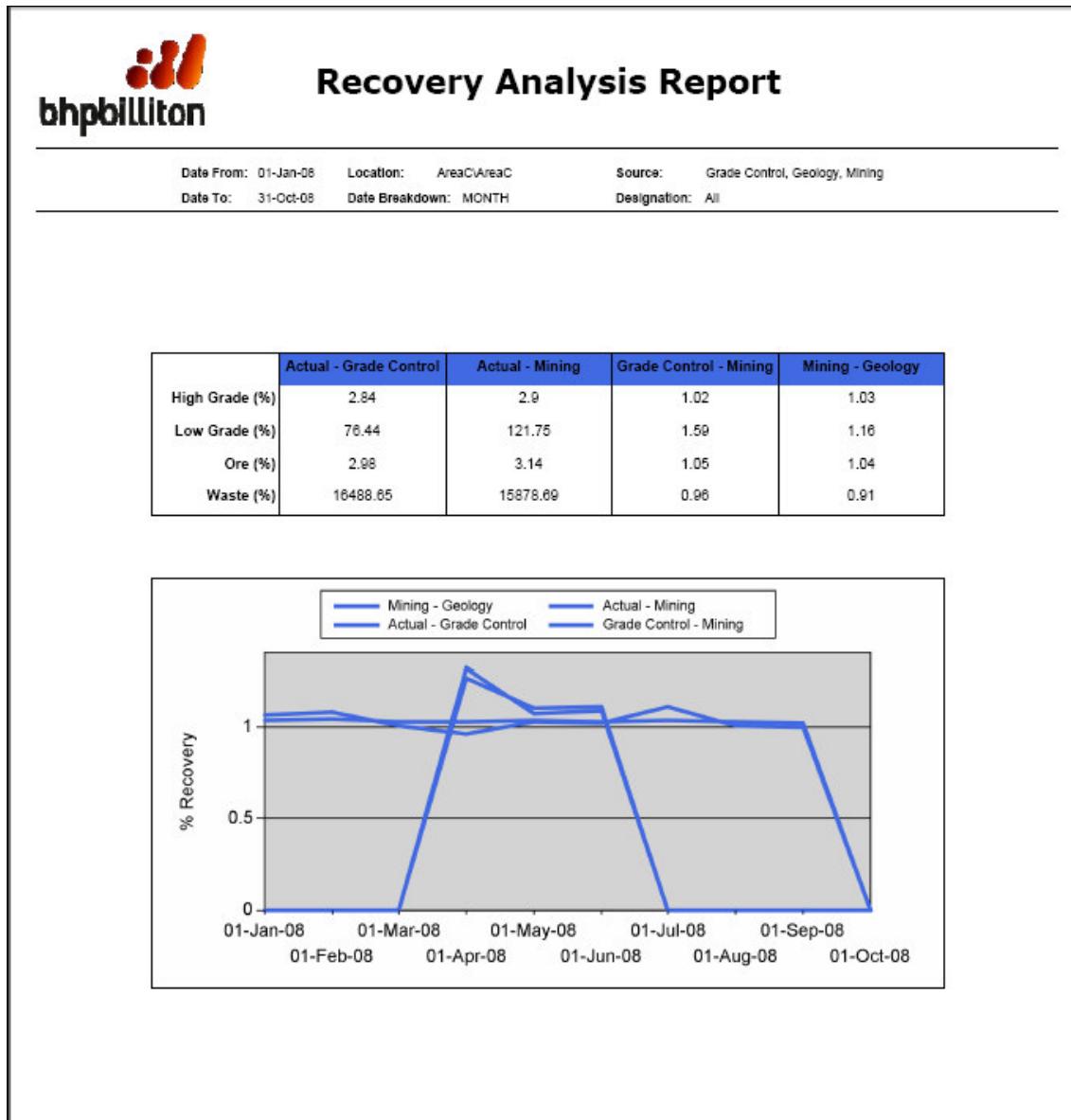
A line chart follows the table which shows the percent recovery for the same model comparisons.

**Figure 8.18 Reports – Recovery Analysis Report Parameters**

The screenshot shows the 'Recovery Analysis Report' configuration page. On the left, a 'Report Menu' sidebar lists 'Report List' and 'Report Management'. The main panel contains the following fields:

- Report Format:** Adobe PDF File (best for printing and emailing)
- Date From:** April 2008
- Date To:** May 2008
- Date Breakdown:** Month
- Location:** Pit: CE (with a dropdown arrow) and a link to 'Up One Level'. Below this, under 'Detail:', are links to Company - WAIO, Hub - AreaC, Site - AreaC, and Pit - CE.
- Source:** A group of checkboxes:
  - Grade Control Model
  - Geological Model
  - Mining Model
  - Mine Production (Actuals)[\[Check All\]](#) [\[Un-check All\]](#)
- Designation:** A dropdown menu set to 'All'.
- Run Report:** A large blue button at the bottom of the form.

Figure 8.19 Reports – Recovery Analysis Report



### 8.1.10 F1F2F3 HUB Reconciliation Report

This is a BHPBIO Corporate report providing a central view for the F1, F2 and F3 factors for the mine site (Figure 8.20 and Figure 8.21).

The dashboard of the F1F2F3 like on the home screen is provided along with a breakdown of the actual figures and actual values.

**Figure 8.20 Reports – F1F2F3 HUB Reconciliation Report Parameters**

**Figure 8.21 Reports – F1F2F3 HUB Reconciliation Report**

		Tonnes	Fe%	P%	SiO2%	Al2O3%	LOI%
F1 - Grade Control Model / Mining Model		1.04	1.04	1.01	1.16	1.08	1.02
F2 - Mine Production (Expit) / Grade Control Model		0.59	0.59	0.57	0.52	0.50	0.59
F3 - Ore Shipped / Mining Model Shipping Equivalent		0.00	0.00	0.00	0.00	0.00	0.00
		Tonnes	Fe%	P%	SiO2%	Al2O3%	LOI%
Geology Model		2,643,395	62.53	0.069	2.45	1.81	5.85
Mining Model		2,575,377	62.63	0.069	2.40	1.75	5.82
Grade Control Model		2,679,972	62.37	0.066	2.68	1.82	5.70
Mine Production Expit Equivalent		1,586,626	61.99	0.064	2.33	1.53	5.69
Mining Model Crusher Equivalent		988,751	63.64	0.077	2.50	2.11	6.03
△Post-Crusher Stockpile		-1,888,378	0.00	0.000	0.00	0.00	0.00
△Port Stockpiles		0	0.00	0.000	0.00	0.00	0.00
Ore Shipped		0	0.00	0.000	0.00	0.00	0.00

Legend:

- Green: Within 5% Relative, 0.3% Absolute for Fe
- Yellow: Within 5-10% Relative, 0.3-0.5% Absolute for Fe
- Red: Greater than 10% Relative, 0.5% Absolute for Fe

## 8.2 Report Management

The report management screen (Figure 8.22) allows the user to control:

- Which reports are displayed
- The descriptions of each report
- How the report is displayed
- The grouping of the report

### 8.2.1 Report List

The reports list tab displays a list of reports available to the users.

The user can:

- Edit the report properties
- Delete the report
- Add a new report
- Upload an updated report
- Create new reports using the Ad-hoc report builder.

**Figure 8.22 Report Management**

The screenshot shows the 'Report Management' screen. On the left, there's a sidebar with icons for 'Report List', 'Add a Report', 'Upload a Report', and 'Ad-hoc Report Builder'. The main area has tabs for 'Reports' and 'Report Groups', with 'Reports' selected. A table lists various reports with columns for 'Report Name', 'Order No', 'Group Name', 'Edit', and 'Delete'. At the bottom right of the table is a link 'Export to CSV'.

Report Name	Order No	Group Name	Edit	Delete
Digblock Reconciliation Report		Reconciliation	<a href="#">Edit</a>	<a href="#">Delete</a>
Haulage Vs Plant Report		Reconciliation	<a href="#">Edit</a>	<a href="#">Delete</a>
Monthly Material Movement Report		Reconciliation	<a href="#">Edit</a>	<a href="#">Delete</a>
Stockpile Balance		Reconciliation	<a href="#">Edit</a>	<a href="#">Delete</a>
Survey Vs Haulage		Reconciliation	<a href="#">Edit</a>	<a href="#">Delete</a>
Grade Recovery Report		BHPBIO Reports	<a href="#">Edit</a>	<a href="#">Delete</a>
Model Comparison Report		BHPBIO Reports	<a href="#">Edit</a>	<a href="#">Delete</a>
Movement Recovery Report		BHPBIO Reports	<a href="#">Edit</a>	<a href="#">Delete</a>
F1F2F3 Reconciliation Report		BHPBIO Reports	<a href="#">Edit</a>	<a href="#">Delete</a>

[Export to CSV](#)

### 8.2.1.1 Edit a Report

The user can edit the following report details:

- Report file name
- The report description
- The group the report fall in (Figure 8.23)

**Figure 8.23 Edit Report**

Report Name: rptCore\_Stockpile\_Balance  
Description: Stockpile Balance  
Report Group: Reconciliation

Save Report Edits

### 8.2.1.2 Delete a Report

The user may remove a report from the Report List by clicking Delete and confirming the deletion of the report.

### 8.2.1.3 Add a Report

The Add a report screen allows the user to enter a new report name, description and the group the report belongs to () .

Once the report is saved it will appear on the reports list under the specified group.

**Figure 8.24 Add a Report**

Report Name: Daily Feed Report  
Description: Daily Feed Report  
Report Group: Material Movement

Save New Report

### 8.2.1.4 Upload a Report

The Upload a Report screen allows the user to upload a report linked to a file (Figure 8.25).

**Figure 8.25 Upload a Report**

Report File: C:\Reports\rptDailyFeedReport.rdl  
Report Name: Daily Feed Report  
Description: Daily Feed Report  
Report Group: Material Movement

Upload Report

## 8.2.2 Report Groups

The reports in the report list are displayed in groups. The user can be edit or delete a report group (Figure 8.26).

**Figure 8.26 Report Groups**

The screenshot shows the 'Report Management' interface. On the left, there is a sidebar titled 'Report Groups' with two options: 'Report List' and 'Add a Report Group'. The main area is titled 'Report Management' and has tabs for 'Reports' and 'Report Groups'. The 'Report Groups' tab is selected. A table lists report groups with columns for 'Group Name', 'Description', 'Edit', and 'Delete'. Two groups are listed: 'Reconciliation' (Description: Reconciliation Reports) and 'BHPBIO Reports' (Description: BHPBIO Reports). Both have 'Edit' and 'Delete' links. At the bottom right of the table is a link 'Export to CSV'.

Group Name	Description	Edit	Delete
Reconciliation	Reconciliation Reports	<a href="#">Edit</a>	<a href="#">Delete</a>
BHPBIO Reports	BHPBIO Reports	<a href="#">Edit</a>	<a href="#">Delete</a>

### 8.2.2.1 Edit a Report Group

The Edit a Report Group screen allows the user to edit the report group name and description (Figure 8.27).

**Figure 8.27 Edit a Report Group**

The screenshot shows the 'Edit Report Group' dialog box. It contains two text input fields: 'Group Name:' with the value 'Reconciliation' and 'Description:' with the value 'Reconciliation Reports'. Below the fields is a blue button labeled 'Save Report Group Edits'.

### 8.2.2.2 Delete a Report Group

The Delete link in Report Group tab allows the user to delete a report group. If there are reports currently assigned to the report group they will end up in the 'Ungrouped' group.

#### 8.2.2.3 Add a Report Group

The Add a report group allows the user to add a new report group by adding a new Report Group name and description (Figure 8.28).

**Figure 8.28 Add a Group Report**

New Report Group

Group Name:

Description:

**Save New Report Group**

### 8.3 Ad-hoc Report Builder

The Ad-hoc Report Builder allows the user to create simple customised reports.

When a user runs Ad-hoc report builder for the first time they may get the following security warning. Click 'run' to continue (Figure 8.29).

**Figure 8.29 Ad-hoc Report Builder – Security Warning**



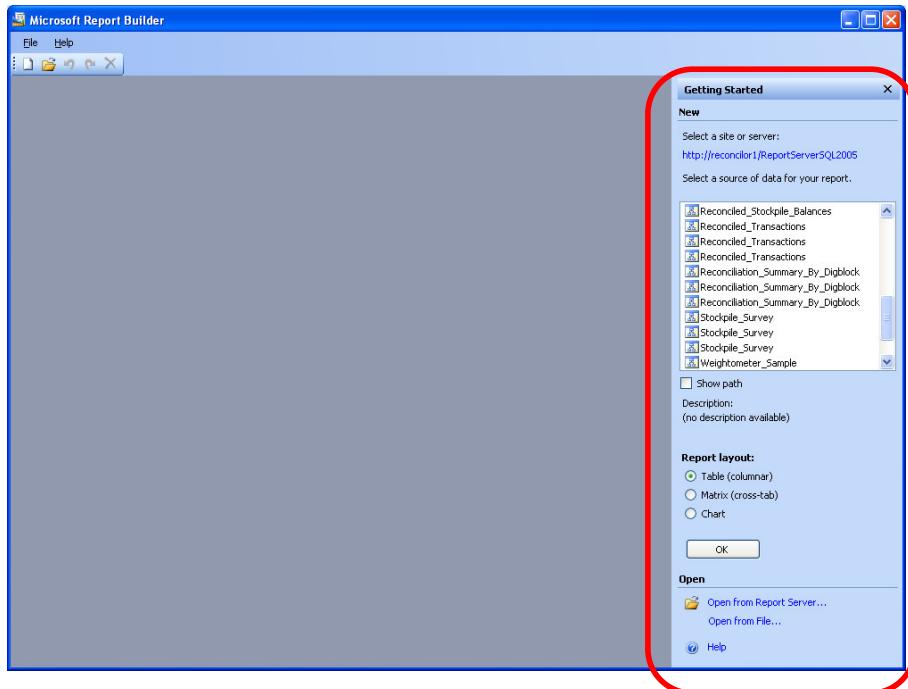
#### Example:

A user wants to create a Haulage report in table format.

On the right hand side of the Report Builder screen the user can select a source of data (Figure 8.30):

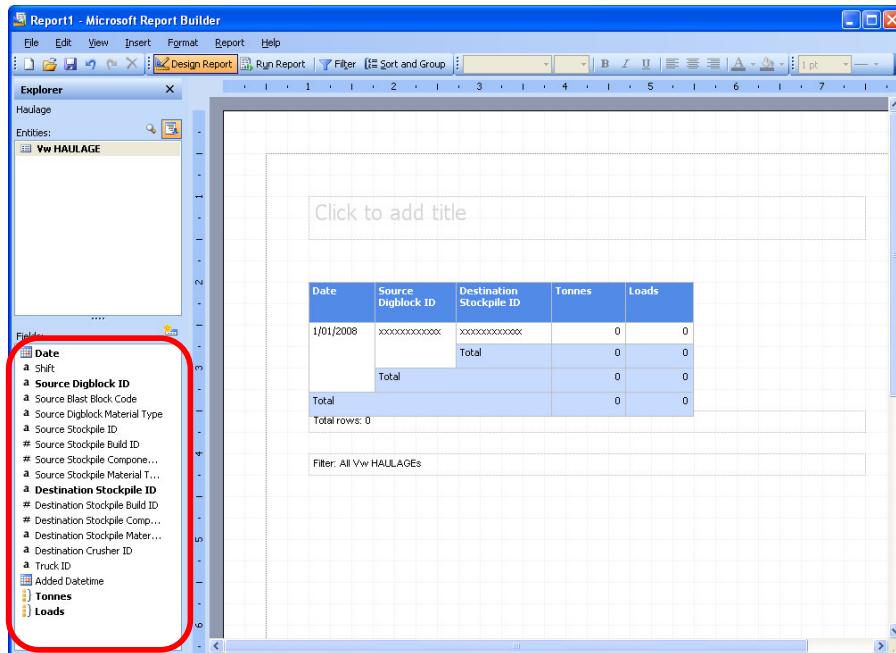
1. Select 'Haulage'.
2. Under report layout select 'Table'
3. Click OK.

Figure 8.30 Ad-hoc Report Builder – Getting Started



4. The Microsoft Report Builder design report screen opens with the table and fields the user selected. In the field list (area circled in Figure 8.30) the user can double click on the fields that they want displayed on the report as in Figure 8.31.

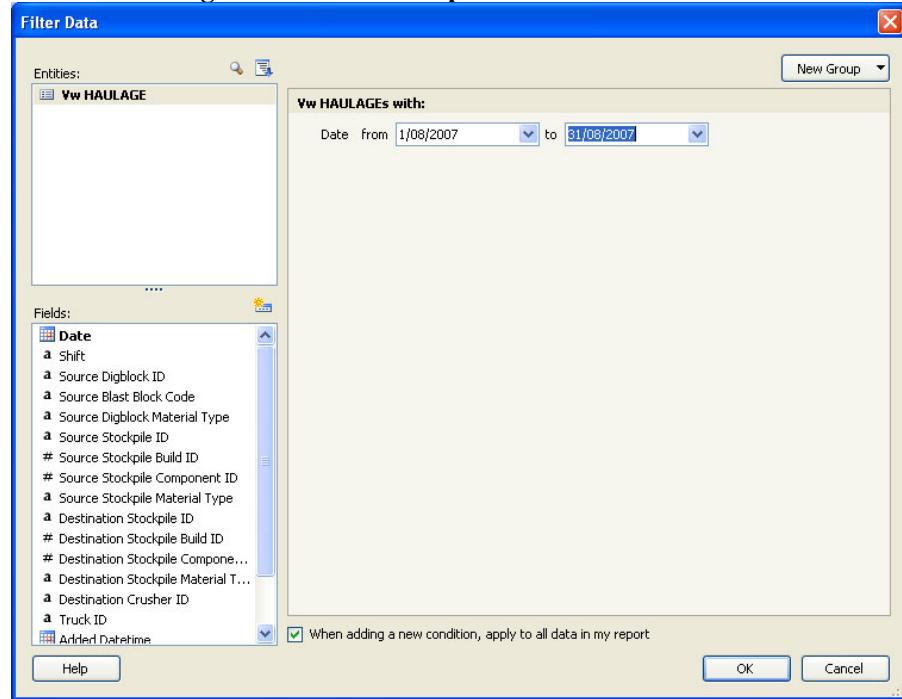
Figure 8.31 Ad-hoc Report Builder – Design Report



5. The user can click on 'Click to add title' to add a title for the report.

6. The user can add a date filter by clicking Report (on the menu) and then selecting Filter. The user then double clicks on Date in the fields list. Click on ‘equals’ to get a drop down list and selecting ‘From ... To’. Enter the dates as in Figure 8.32 and click OK.

**Figure 8.32 Ad-hoc Report Builder – Add Filter**



7. The user can then run the report to check that the report prints as expected (Figure 8.33). To do this click on Run Report on the Tool Bar.

**Figure 8.33 Ad-hoc Report Builder – Run Report**

The screenshot shows the Microsoft Report Builder interface with a report titled 'Haulage Report'. The report displays a table of data with columns: Date, Source Digblock ID, Destination Stockpile ID, Tonnes, and Loads. The data is grouped by Date and Source Digblock ID. The table includes several totals and sub-totals. At the bottom left, it says 'Total rows: 8'.

Date	Source Digblock ID	Destination Stockpile ID	Tonnes	Loads
15/08/2007		TEST2	100	1
		TEST3	100	1
		Total	200	2
A/468/01/02			100	1
		MineA-InPitA	500	1
		Total	600	2
A/468/01/04		MineA-HgFines	242	2
		Total	242	2
A/468/03/02			121	1
		Total	121	1
			1,163	7
	Total			
6/08/2007		MineA-InPitA	246	2,468
		Total	246	2,468
A/468/01/02			738	7,404
		Total	738	7,404
	Total		984	9,872
			2,147	9,879

- 
8. Once the report is fine tuned save the report. Select File and then click Save to File. The user can select a location to save the report to. Close Report Builder.
  9. To add the report to RECONCILOR the user can select Upload a Report (Figure 8.25) and browse for the saved report, add a report name, description and report group.
  10. That report is now available to all users.

For more information to create reports and to edit reports click on Help and then select Report Builder Help.

## 9 Utilities

RECONCILOR Site Administrators only have access to the Utilities tab.

This screen acts as a launching pad for all Utilities functions such as editing and entering Truck count information, Approving Reconciliations, and updating reference tables.



Common Utilities Tasks include:

- Checking Imports
- Run an import manually
- Resolve Haulage errors
- Split Haulage
- Adding a Stockpile Group
- User Management



### 9.1 Import Queue Management

The Import Queue Management screen shows the imports that have run within the date range specified by the user (Figure 9.1).

The user can specify the status of the import including the ability to look up imports which have failed.

A list of imports available to send to the job queue is shown in the Imports tab (Figure 9.2).

**Figure 9.1 Imports Administration – Job Queue**

The screenshot shows the 'Import Queue Management' interface under the 'Job Queue' tab. A sidebar on the left titled 'Utilities' contains the text: 'Perform scheduled tasks, administer reference tables and keep track of the reconciliation system processes through these utilities.' The main area displays a table of pending import jobs:

Job Number	Import Name	Priority	Job Status	Actions	Added Time
2	Blocks	1	QUEUED	<a href="#">Cancel</a>   <a href="#">View Job</a>	10-Nov-2008 5:25 PM
6	Blocks	1	PENDING	<a href="#">Cancel</a>   <a href="#">Queue</a>   <a href="#">View Job</a>	13-Nov-2008 7:31 AM

Buttons for 'Filter' and 'Export to CSV' are located at the bottom right.

**Figure 9.2 Imports Administration - Imports**

The screenshot shows the 'Import Queue Management' interface under the 'Imports' tab. A sidebar on the left titled 'Utilities' contains the same text as in Figure 9.1. The main area displays a table of active imports:

Import Name	Description	Active	Timeout (Minutes)	Actions
Blocks	Blocks Import from Blastholes 4	<input checked="" type="checkbox"/>	60	<a href="#">Queue</a>   <a href="#">View Import</a>
BlockInsertUpdate	Blocks Insert Update	<input checked="" type="checkbox"/>	60	<a href="#">Queue</a>   <a href="#">View Import</a>
BlockDeleteUpdate	Blocks Delete Load	<input checked="" type="checkbox"/>	60	<a href="#">Queue</a>   <a href="#">View Import</a>
Haulage	Haulage Import from MQ2	<input checked="" type="checkbox"/>	60	<a href="#">Queue</a>   <a href="#">View Import</a>
Production	Production Import from MQ2	<input checked="" type="checkbox"/>	60	<a href="#">Queue</a>   <a href="#">View Import</a>
Met Balancing	Met Balancing Import from MQ2	<input checked="" type="checkbox"/>	60	<a href="#">Queue</a>   <a href="#">View Import</a>

A 'Details for Blocks Import' panel is open at the bottom, showing:

Import Detail	Parameters		
Import Name: Import Group: Active:	Blocks BHPBIO Imports True	Description: Import Type:	Blocks Import from Blastholes 4 Sync Import

## 9.2 Haulage Management

The Haulage Management set of screens shows all valid haulage records within a date range (Figure 9.3).

Administrators may need to review haulage over a time period to validate the haulage or check for source or destination misallocation.

**Figure 9.3 Haulage Management**

The screenshot shows the 'Haulage Administration' interface with the 'Haulage Management' screen selected. The top navigation bar includes links for 'Haulage List', 'New Record', and 'Bulk Edit'. The main area has a title 'Haulage Management' and a 'Filter Haulage' section. It displays a table of haulage records with columns: Haulage Date, Haulage Shift, Source, Destination, Truck, Tonnes, and View. One record is listed: 12-Nov-2008, Day, CE-626-551-06DF1001, Unknown, 7,894. Below the table are 'View', 'Edit', and 'Delete' buttons. A 'Filter' button is located at the bottom right of the filter section.

### 9.2.1 Haulage Management – View

From the Haulage Management screen the user can press ‘View’ to see more details about a specific Haulage record (Figure 9.4).

**Figure 9.4 Haulage Details**

The screenshot shows the 'Haulage Administration' interface with the 'Haulage Details' screen selected. The left sidebar includes 'View Record' and 'Edit Record' options. The main area has tabs for 'Data' and 'Grade'. Under the 'Data' tab, there is a 'Haulage Data' section with the following details:

<b>Haulage Date:</b>	12-Nov-2008	<b>ID:</b>	3568
<b>Haulage Shift:</b>	D	<b>Tonnes:</b>	7,894
<b>Added Date &amp; Time:</b>	13-Nov-2008	<b>Loads:</b>	8
<b>Source:</b>	CE-626-551-1	<b>Truck ID:</b>	Unknown
<b>Destination:</b>	06DF1001		

## 9.3 Weightometer Sample Management

This screen shows all valid weightometer records within a date range by weightometer or by sample (Figure 9.5).

Administrators may need to review weightometer data over a time period to validate the tonnes being imported.

**Figure 9.5 Weightometer Sample Management**

The screenshot shows the 'Weightometer Sample Management' screen. At the top, there is a filter section with fields for 'Location', 'Date From' (01-Feb-2008), 'Date To' (14-Nov-2008), 'Display' (By Sample), 'Weightometer' (Select All), and 'Limit Records' (checked). Below the filter is a 'Filter' button. The main area contains a data grid with columns: Weightometer, Sample Date, Shift, Order No, Tonnes, Corrected Tonnes, Source, and Destination. The data grid lists various haulage entries from June 2008, such as C1OutFlow, C2OutFlow, PostCrusherToPostCrusher, etc., with their respective details. An 'Export to CSV' link is located at the bottom right of the grid.

Weightometer	Sample Date	Shift	Order No	Tonnes	Corrected Tonnes	Source	Destination
C1OutFlow	30-Jun-2008	Day	1	4,223		Default (C1)	Default (08063E1)
C1OutFlow	30-Jun-2008	Day	1	53,267		Default (C1)	Default (08065F2)
C1OutFlow	30-Jun-2008	Day	1	17,362		Default (C1)	Default (08169D1)
C1OutFlow	30-Jun-2008	Day	1	4,893		Default (C1)	Default (08170B1)
C2OutFlow	30-Jun-2008	Day	1	3,442		Default (C2)	Default (08063E1)
C2OutFlow	30-Jun-2008	Day	1	21,998		Default (C2)	Default (08065F2)
C2OutFlow	30-Jun-2008	Day	1	15,228		Default (C2)	Default (08169D1)
C2OutFlow	30-Jun-2008	Day	1	8,272		Default (C2)	Default (08170B1)
PostCrusherToPostCrusher	30-Jun-2008	Day	1	21,875		08167A2	08001G1
PostCrusherToPostCrusher	30-Jun-2008	Day	1	7,280		06DF1001	08145C2
PostCrusherToTrainRake	30-Jun-2008	Day	1	2,080		07DF1001	08145C2
PostCrusherToTrainRake	30-Jun-2008	Day	1	3,882		08001G3	AreaC Train Rake
PostCrusherToTrainRake	30-Jun-2008	Day	1	3,882		08001G3	AreaC Train Rake

## 9.4 Haulage Correction and Name Resolution

This screen allows administrators to review the outstanding haulage errors in a time ordered list of errors (Figure 9.6).

Administrators will use this page to diagnose and correct haulage errors.

**Figure 9.6 Haulage Error List**

The screenshot shows the 'Haulage Error List' screen. At the top, there is a filter section with fields for 'Source' (All), 'Destination' (All), 'Description' (All), and 'Limit Records' (checked). Below the filter is a 'Filter' button. The main area contains a data grid with columns: Haulage Date, Haulage Shift, Source, Destination, and Error. The data grid lists various haulage errors from April to May 2008, such as EE-713-799-1, CE-635-510-1, etc., with their respective error descriptions. An 'Export to CSV' link is located at the bottom right of the grid.

Haulage Date	Haulage Shift	Source	Destination	Error
27-Apr-2008	Day	EE-713-799-1	EE-WS	Invalid source.
28-Apr-2008	Day	EE-713-799-1	EE-WS	Invalid source.
28-Apr-2008	Day	EE-713-799-1	EE-WS-CENTR	Invalid source.
29-Apr-2008	Day	EE-713-799-1	EE-WS-CENTR	Invalid source.
30-Apr-2008	Day	EE-713-799-1	EE-WS-CENTR	Invalid source.
12-May-2008	Day	CE-635-510-1	C1	Invalid source.
12-May-2008	Day	CE-635-510-1	OVERSIZE	Invalid source.
12-May-2008	Day	CE-635-510-1	REDLIGHT	Invalid source.
13-May-2008	Day	CE-635-510-1	C1	Invalid source.
13-May-2008	Day	CE-635-510-1	REDLIGHT	Invalid source.
13-May-2008	Day	CE-644-518-2	A-WASTE	Invalid source.
14-May-2008	Day	CE-644-518-1	A-WASTE	Invalid source.
15-May-2008	Day	CE-644-518-1	A-WASTE	Invalid source.

#### 9.4.1 Name Resolution

These screens allow users to view, deactivate and delete name resolutions (Figure 9.7, Figure 9.8 and Figure 9.9). The purpose of these screens is to facilitate the linking of one name for a material point to another name. This can be done for a blastblock, stockpile or crusher. Name resolutions can be set to apply for specific date ranges in time.

**Figure 9.7 Name Resolution**

Name Resolution								
Code	Description	Date From	Date To	Resolves	Number Records	Deactivate	Delete	▼
A40000108A	A40000108A	7-Mar-2008 Day	Open	A40000108	0	<a href="#">Deactivate</a>	<a href="#">Delete</a>	

[Export to CSV](#)

**Figure 9.8 New Name Resolution**

New Name Resolution

Resolve From Date: 7-Mar-2008

Resolve From Shift: D

Code:

Description:

Resolves To

Digblock:  A40000108

Stockpile:  HG\_ROM

Crusher:  CR1

**Figure 9.9 Deactivate Name Resolution**

Deactivate Name Resolution

Code: A40000108A

Description: A40000108A

Resolves From: 7-Mar-2008 Day

Resolves To: 7-Mar-2008 Day

Resolves: A40000108

Deactivation Date: 07-Mar-2008

Deactivation Shift: Day

## 9.5 Data Exception

This screen displays all current exceptions related to the business rules calculated to exist within the system (Figure 9.10).

This screen identifies to the user when a problem becomes apparent and recommends a solution where possible. The two primary exceptions are negative balance stockpiles, and unbalanced plant input and outputs for date/shift combinations.

Whenever a system exception has occurred it represents that there is a fundamental flaw in the data. Negative stockpiles identify a fault in the on/off transactions of a stockpile. Unbalanced Plant shifts represent errors in the weightometers / sampling around the plant.

This screen retains all active, dismissed and resolved data exceptions. The ability to undo a correction is available.

**Figure 9.10 Data Exceptions**

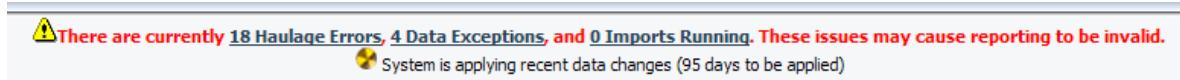
Date	Shift	Status	Modify	View
01-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
01-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
01-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
01-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
01-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
01-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
02-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
02-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
02-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>
02-Apr-2008	D	Active	<a href="#">Dismiss</a>	<a href="#">View</a>

There are 14 types of data exceptions in the system. They include:

1	Negative Stockpile
2	Inconsistent Plant Deliveries and Removals
3	Inconsistent Crusher Deliveries and Removals
4	Weightometer Record Source/Destination Not Defined
5	Haulage Record Source/Destination Not Defined
6	Transaction Record Source/Destination Not Defined
7	Blastblock Grades Not Defined
8	Stockpile Opening Grades Not Specified
9	System Grades Not Defined
10	Invalid System Grades Setup
11	System Shifts Not Defined
12	Adjustments in Stockpile Survey Period
13	Unapproved Stockpile Survey Period Ordering
14	Source/Destination Stockpile Balance Record Exception

The data exceptions will be displayed under every tab looking similar to Figure 9.11.

**Figure 9.11 Data Exceptions**



The user can investigate these data exceptions by clicking on the link of the data exception.

The user can then click ‘view’ to display each data exception. Each data exception will have a suggested resolution supplied in the view screen. The user can dismiss valid data exceptions.

## Figure 9.12 Data Exceptions View

Detail						
<b>Exception ID:</b>	1098	<b>Type:</b>	Negative Stockpile			
<b>Date:</b>	22-Jun-2008	<b>Shift:</b>	Day			
<b>Status:</b>	Active					
<b>Description:</b>	Stockpile 08167A2 Build 1 has fallen below zero tonnes.					
Stockpile 08167A2 Build 1 has fallen below zero tonnes, initially on 22-Jun-2008 Day shift, and eventually reaching -21878 on 30-Jun-2008 Day shift.						
<b>Suggest Resolutions:</b>						
<a href="#">Review and Change Transactions</a>						
<p>Review the transactions to and from the stockpile which occurred before the stockpile tonnes became negative, and edit them such that the stockpile tonnes are no longer negative.</p>						
<a href="#">Add Stockpile Adjustment</a>						
<p>Browse to the stockpile through the stockpiles tab and add a manual adjustment such that the stockpile tonnes are no longer negative.</p>						

## 9.6 Ore Type

This screen allows users to manage the ore types reported on within the system (Figure 9.13).

The user can add, edit or delete material types (Figure 9.14 and Figure 9.15). Material Editing screens to allow management of material types used in the models.

**Figure 9.13** Ore Types List

Ore Type						
Ore		Categories				
Location:		Company: WA10 <a href="#">Up One Level</a>				
Location Detail:		No location has been selected.				
Filter						
Classification		Material Category		Add	Edit	Delete
Classification		Add Material Type Node				
Ore		Classification		Add Child Material Type	Edit	Delete
High Grade		Designation		Add Child Material Type	Edit	Delete
HSIA		OreType			Edit	Delete
HSLA		OreType			Edit	Delete
HSLA		OreType			Edit	Delete
LSHA		OreType			Edit	Delete
LSLA		OreType			Edit	Delete
HG		OreType			Edit	Delete
HG		OreType			Edit	Delete

**Figure 9.14 Add Material Type**

New Material Type

Material Category:	*	Classification	<input type="button" value="▼"/>
Abbreviation:	*	<input type="text"/>	
Description:	*	<input type="text"/>	
Density Conversion Factor: <input type="text"/>			
<input type="button" value="Save New Material Type"/>			

**Figure 9.15 Edit Material Type**

Edit Material Type

Material Category:	*	Classification	<input type="button" value="▼"/>
Abbreviation:	*	<input type="text"/> Ore	
Description:	*	<input type="text"/> Ore	
Density Conversion Factor: <input type="text"/> 1			
<input type="button" value="Save Material Type Edits"/>			

## 9.7 Ore Type Categories

This screen allows users to manage the ore types categories reported on within the system (Figure 9.16).

The user can add, edit or delete material categories (Figure 9.17 and Figure 9.18).

Ore Type Category screens to allow management of ore type groups within system.

**Figure 9.16 Material Group**

Material Categories

Add a Material Category

Ore Type

Material Category	Description	Parent Material Category	Edit	Delete
Classification	Classification		<a href="#">Edit</a>	<a href="#">Delete</a>
Designation	Designation	Classification	<a href="#">Edit</a>	<a href="#">Delete</a>
MisategorisedStockpiles	Stockpiles that have not been properly categorised.		<a href="#">Edit</a>	<a href="#">Delete</a>
OreType	Ore Type	Designation	<a href="#">Edit</a>	<a href="#">Delete</a>

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**Figure 9.17 Add Material Group**

New Material Category

Material Category: *	<input type="text"/>
Parent Material Category:	<input type="text"/>
Description: *	<input type="text"/>
<b>Save New Material Category</b>	

**Figure 9.18 Edit Material Group**

Edit Material Category

Material Category: *	<input type="text" value="Designation"/>
Parent Material Category:	<input type="text" value="Classification"/>
Description: *	<input type="text" value="Designation"/>
<b>Save Material Category Edits</b>	

## 9.8 Stockpile Groups

The Stockpile Groups screen manages stockpile grouping displayed in the Stockpile tab as well as for reporting purposes (Figure 9.19).

Users need to assign a default moisture and manage these default moistures for each stockpile group.

Reporting Notes can also be recorded against the group. These notes can be displayed on screens and reports as required.

**Figure 9.19 Stockpile Groups**

Stockpile Groups						
Display Order	Stockpile Group	Description	Includes	Edit	Delete	▼
1 ↑↓	Port Train Rake	Port Train Rake Stockpiles	AreaC Train Rake	<a href="#">Edit</a>	<a href="#">Delete</a>	
2 ↑↓	Pre Crusher	Post Crusher Stockpiles	06DF1001, 06C999, 04LA1001, 04FD1004, 07DF1001,...	<a href="#">Edit</a>	<a href="#">Delete</a>	
3 ↑↓	Post Crusher	Post Crusher Stockpiles	0701082, 07011B3, 07015C3, 07020C3, 07022B1,...	<a href="#">Edit</a>	<a href="#">Delete</a>	

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## 9.9 Grades

The user can change the order the grades are display, the unit measure displayed for the grades, as well as the format and precision of the values (Figure 9.20 and Figure 9.21).

**Figure 9.20 Grades**

Display Order	Description	Unit Label	Display Format	Precision	Is Visible	Edit
1 ↑↓	Fe	%	DP	2	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
2 ↑↓	P	%	DP	2	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
3 ↑↓	SiO2	%	DP	2	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
4 ↑↓	AL2O3	%	DP	2	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
5 ↑↓	Density	t/m3	DP	2	<input checked="" type="checkbox"/>	<a href="#">Edit</a>
6 ↑↓	LOI	%	DP	2	<input checked="" type="checkbox"/>	<a href="#">Edit</a>

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**Figure 9.21 Edit Grades**

**Edit Grade**

Description:

Unit Label:

Display Format:

Display Precision:

Is Visible:

**Save Grade Edits**

## 9.10 Location

This screen allows users to add, edit or delete the location tree configured for the site (Figure 9.22 and Figure 9.23). The location tree defines the location hierarchy within the system.

**Figure 9.22 Locations**

The screenshot shows the 'Locations' screen. On the left, a sidebar titled 'Utilities' contains the text: 'Perform scheduled tasks, administer reference tables and keep track of the reconciliation system processes through these utilities.' Below this is a tree view of locations:

- Company
  - WAIO
    - AreaC
      - CE
        - 0626
          - 0522
            - 1
            - 2
          - 0523
          - 0524
          - 0525
          - 0526

To the right of the tree view is a table titled 'Location Type' with columns for 'Add', 'Edit', and 'Delete'. The table lists the following location types:

Location Type	Add	Edit	Delete
Company	Add Location Node		
Hub	Add Child Location	Edit	Delete
Site	Add Child Location	Edit	Delete
Pit	Add Child Location	Edit	Delete
Bench	Add Child Location	Edit	Delete
Blast	Add Child Location	Edit	Delete
Block		Edit	Delete
Block		Edit	Delete
Blast	Add Child Location	Edit	Delete
Blast	Add Child Location	Edit	Delete
Blast	Add Child Location	Edit	Delete
Blast	Add Child Location	Edit	Delete

**Figure 9.23 Add Location**

The screenshot shows the 'New Location' dialog box. It contains fields for 'Location Type' (set to 'Blast'), 'Name' (empty), and 'Description' (empty). At the bottom is a 'Save New Location' button.

## 9.11 Location Type

This screen allows the user to modify the location hierarchy after system setup (Figure 9.24, Figure 9.25 and Figure 9.26).

Figure 9.24 Locations

Description	Parent Location Type	Edit	Delete
Company		Edit	Delete
Hub	Company	Edit	Delete
Site	Hub	Edit	Delete
Pit	Site	Edit	Delete
Bench	Pit	Edit	Delete
Blast	Bench	Edit	Delete
Block	Blast	Edit	Delete

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Figure 9.25 Edit Location Type

Edit Location Type

Parent Location Type: Pit

Description: \* Bench

Save Location Type Edits

Figure 9.26 Add Location Type

New Location Type

Parent Location Type:

Description: \*

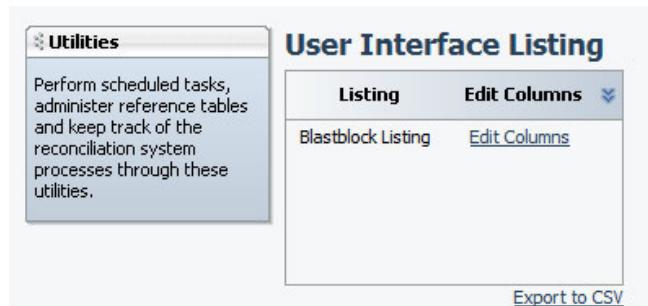
Save New Location Type

## 9.12 User Interface Listing

The User Interface Listing screen allows the user to order and modify the table views presented on the stockpiles, blastblocks and stockpile activity list screens (Figure 9.27 and Figure 9.28).

The user can modify the field display name, the width of the columns, enable and disable columns on the screens and display sum amounts for selected columns.

**Figure 9.27 User Interface Listing**



**Figure 9.28 Blastblock Listing**

Order Number		Column Name	Display Name	Width	Show Column	Sum Column When Grouped
0	⬆️⬇️	Digblock_ID	Blastblock Id	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1	⬆️⬇️	Material_Type_Name	Ore Type	90	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	⬆️⬇️	Start_Date	Start Date	75	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	⬆️⬇️	End_Date	End Date	75	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	⬆️⬇️	Start_Tonnes	Start Tonnes	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	⬆️⬇️	Approved_Removed_Tonnes	Approved Removed Tonnes	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	⬆️⬇️	Unapproved_Removed_Tonnes	Actuals  (Haulage)	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	⬆️⬇️	Remaining_Tonnes	Remaining Tonnes 	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Auto_Activate_Haulage	Auto Activate Haulage	99	<input type="checkbox"/>	<input type="checkbox"/>
		Auto_Validate_Depletion_Tonnes	Auto Validate Depletion Tc	99	<input type="checkbox"/>	<input type="checkbox"/>

**Blastblock Listing**

**Listing Columns**

**Save Columns**

## 9.13 User Management

Administrators of the RECONCILOR system can create new users, edit existing users and delete users (Figure 9.29). Users can be added to a number of user defined roles, as well as standard roles included in RECONCILOR (Figure 9.30).

Administrators will manage the access of users to the system through these screens.

RECONCILOR will allow the Administrator to set up particular roles and assign access to functions within the system to these roles.

This is important to ensure integrity of the data, the less people that have the ability to modify data, the more confidence you will place in it.

**Figure 9.29 User Management**

First Name	Last Name	Nt Login	Email Address	Roles	Edit	Delete
		SNOWDEN\mholst		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
		SNOWDEN\linton		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
		SNOWDEN\jdaughton		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
		SNOWDEN\pconti		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Ben	Hobbs	SNOWDEN\bhobbs		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Craig	Morley	SNOWDEN\cmorley		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Craig	Morley	SNOWDEN\jhlanlon		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Craig	Morley	SNOWDEN\yriske		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Josh	Freitas	SNOWDEN\jfreitas2		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Josh	Freitas	SNOWDEN\jfreitas		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Murray	Hipper	SNOWDEN\mhipper		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Snowden	Admin User	RECONCILORDEMO\Reconcilor_Admin		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>
Snowden	Demo User	RECONCILORDEMO\Reconcilor		<a href="#">Roles</a>	<a href="#">Edit</a>	<a href="#">Delete</a>

[Export to CSV](#)

**Figure 9.30 Add User**

**Edit User**

Windows Username	<input type="text" value="SNOWDEN\jdaughton"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
Email Address	<input type="text"/>
<b>Save User Edits</b>	

## 9.14 Role Management

These screens allow Administrators to add, update and delete roles in the system (Figure 9.31 - Figure 9.35).

The Administrator can then assign rights to each role in terms of what access they have to different sections of the user interface.

**Figure 9.31 Role Management**

Role Management				
Role	Description	Default	Edit	Delete
BHP_AREAC	AreaC User	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
BHP_NJV	NJV User	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
BHP_WAIO	WAIO User	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
BHP_YANDI	Yandi User	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
REC_ADMIN	Reconcilor Administrator	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
REC_GEO	Reconcilor Mine Geologist	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
REC_SNR_USER	Reconcilor Senior User	<input type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>
REC_VIEW	Reconcilor Viewer	<input checked="" type="checkbox"/>	<a href="#">Edit Role</a>   <a href="#">Edit Security Options</a>   <a href="#">Edit Role Assignments</a>	<a href="#">Delete</a>

**Figure 9.32 Edit Role**

[Edit Role](#)

Role ID	<input style="width: 100%;" type="text" value="REC_VIEW"/>
Description	<input style="width: 100%;" type="text" value="Reconcilor Viewer"/>
<input checked="" type="checkbox"/> Is default role	
<a href="#">Save Role Edits</a>	

**Figure 9.33 Edit Role Options**

[Edit Role Options for Reconcilor Viewer](#)

**Functionality**

- Log into Reconcilor
- Access the digiblocks section
- Access the stockpiles section
- Access the depletions section
- Access the analysis section
- Access the report section
- Access the utilities section

**Security**

[Save Role Options](#)

**Figure 9.34 Edit Role Assignments**

Edit Role Assignments For Reconcilor Viewer

Assignment Type	Description	Delete
System User	Josh Freitas	<a href="#">Delete</a>
System User	Josh Freitas	<a href="#">Delete</a>

[Export to CSV](#)

**Add New Role Assignment**

Assignment Type:

Name:

**Figure 9.35 Add New Role**

New Role

Role ID

Description

Is default role

## 9.15 Audit Log Viewer

RECONCILOR tracks a large number of events within the system. The majority of these events are based around the manipulation of data by users or system processes. The Event viewer allows the administrator to review these events after they have occurred.

The list can be filtered by a date range, event type group, event type and by user as required (Figure 9.36).

Administrators may use this screen to review who has been making changes in the system and what changes they have made (Figure 9.37).

**Figure 9.36 Audit Log Viewer**

The screenshot shows the 'Audit Log Viewer' window. On the left, there is a sidebar with the title 'Utilities' and a brief description: 'Perform scheduled tasks, administer reference tables and keep track of the reconciliation system processes through these utilities.' The main area is titled 'Audit Log Viewer' and contains a 'Filter Events' section with dropdown menus for 'Date From' (01-Sep-2008), 'Event Type Group' (All), 'Event Type' (All), and 'User' (All). Below the filter is a 'Filter' button. The main table lists audit events with columns: Event Date, Event Type, Description, User Name, Link, and Event Detail. The table data is as follows:

Event Date	Event Type	Description	User Name	Link	Event Detail
13-Nov-2008 8:47 PM	Utilities UI Event	Save edits to location 'Area C'	Tracy Fouet	<a href="#">Item Link</a>	<a href="#">Detail</a>
13-Nov-2008 8:46 PM	Utilities UI Event	Save edits to location 'Area C'	Tracy Fouet	<a href="#">Item Link</a>	<a href="#">Detail</a>
13-Nov-2008 8:46 PM	Utilities UI Event	Save edits to location 'Area C'	Tracy Fouet	<a href="#">Item Link</a>	<a href="#">Detail</a>
13-Nov-2008 6:37 PM	Level 1 Recalc Agent Stopped	L1 Recalc Agent stopped.			<a href="#">Detail</a>
13-Nov-2008 6:35 PM	Level 2 Recalc Agent Started	L2 Recalc Agent started (Engine version:...)			<a href="#">Detail</a>
13-Nov-2008 6:35 PM	Level 1 Recalc Agent Started	L1 Recalc Agent started (Engine version:...)			<a href="#">Detail</a>
13-Nov-2008 6:35 PM	Level 1 Recalc Agent Stopped	L1 Recalc Agent stopped.			<a href="#">Detail</a>
13-Nov-2008 12:23 PM	Utilities UI Event	Save edits to system setting...	Jeff Alexander	<a href="#">Item Link</a>	<a href="#">Detail</a>

At the bottom right of the table is a link 'Export to CSV'. The entire window has a light gray background.

**Figure 9.37 Audit History Details**

The screenshot shows the 'Audit History Details' dialog box. It contains the following information:

<b>Audit History ID:</b>	6833	<b>Event Date:</b>	13-Nov-2008 8:47 PM
<b>Name:</b>	Tracy Fouet	<b>Windows Login:</b>	SNOWDEN\tfouet
<b>Audit Type:</b>	Utilities UI Event	<b>Audit Type Group:</b>	User Interface
<b>Hyperlink:</b>	<a href="#">Item Link</a>	<b>Details:</b>	<a href="#">Export to XML</a>

**Description:**

```
Save edits to location 'Area C'
```

## 9.16 Recalculation Log Viewer

This screen provides the user with information about how the recalculation engine has made adjustments to transactional data which has been processed in the system (Figure 9.38 and Figure 9.39).

This information includes showing how and why haulage and weightometer sample records have their tonnes changed from their original value, and how grades are assigned to such transactions.

**Figure 9.38 Recalculation Log Viewer**

Type	Period Start	Period End	Recalc Start	Recalc End	Detail	State
Level 1	1-Jan-2007	1-Jan-2007	3-Mar-2008 11:36 PM	3-Mar-2008 11:36 PM	<a href="#">Details</a>	Cancelled
Level 1	1-Jan-2007	1-Jan-2007	3-Mar-2008 11:37 PM	3-Mar-2008 11:37 PM	<a href="#">Details</a>	Cancelled
Level 1	1-Jan-2007	1-Jan-2007	3-Mar-2008 11:39 PM	3-Mar-2008 11:39 PM	<a href="#">Details</a>	Cancelled
Level 1	1-Jan-2007	1-Jan-2007	3-Mar-2008 11:42 PM	3-Mar-2008 11:42 PM	<a href="#">Details</a>	Cancelled
Level 1	1-Jan-2007	1-Jan-2007	3-Mar-2008 11:43 PM	3-Mar-2008 11:43 PM	<a href="#">Details</a>	Success
Level 1	2-Jan-2007	2-Jan-2007	3-Mar-2008 11:43 PM	3-Mar-2008 11:43 PM	<a href="#">Details</a>	Success
Level 1	25-Feb-2007	25-Feb-2007	3-Mar-2008 11:43 PM	3-Mar-2008 11:43 PM	<a href="#">Details</a>	Success
Level 2	1-Jan-2007	3-Mar-2008	3-Mar-2008 11:43 PM	3-Mar-2008 11:43 PM	<a href="#">Details</a>	Cancelled
Level 2	1-Jan-2007	3-Mar-2008	3-Mar-2008 11:51 PM	3-Mar-2008 11:51 PM	<a href="#">Details</a>	Cancelled
Level 2	1-Jan-2007	3-Mar-2008	3-Mar-2008 11:55 PM	3-Mar-2008 11:55 PM	<a href="#">Details</a>	Cancelled
Level 2	1-Jan-2007	3-Mar-2008	3-Mar-2008 11:59 PM	4-Mar-2008 12:02 AM	<a href="#">Details</a>	Success
Level 2	3-Mar-2008	4-Mar-2008	4-Mar-2008 12:02 AM	4-Mar-2008 12:02 AM	<a href="#">Details</a>	Success
Level 1	1-Mar-2008	1-Mar-2008	4-Mar-2008 10:54 AM	4-Mar-2008 10:54 AM	<a href="#">Details</a>	Success

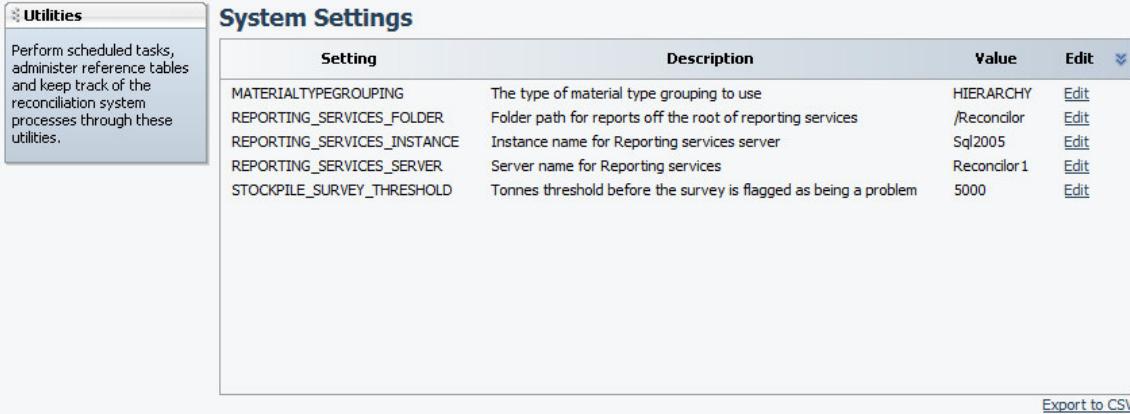
**Figure 9.39 Recalculation Event Details**

<b>Recalc History ID:</b>	1396
<b>Recalc Type:</b>	Level 1
<b>Recalc State:</b>	Success
<b>Start Datetime:</b>	3-Mar-2008 11:43 PM
<b>End Datetime:</b>	3-Mar-2008 11:43 PM
<b>Running Time:</b>	0d 0h 0m 6s
<b>Start Date:</b>	1-Jan-2007
<b>End Date:</b>	1-Jan-2007
<b>Max Queue ID:</b>	6149

## 9.17 System Settings

This screen allows users to change settings which are relevant at a system wide level (Figure 9.40 and Figure 9.41). These include directory locations, server names, and logic settings.

**Figure 9.40 System Settings**

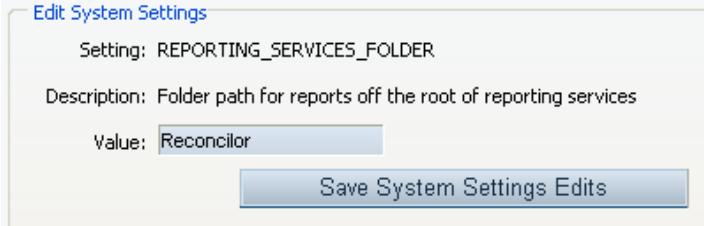


The screenshot shows a 'System Settings' table with columns: Setting, Description, Value, and Edit. The table contains the following data:

Setting	Description	Value	Edit
MATERIALTYPEGROUPING	The type of material type grouping to use	HIERARCHY	<a href="#">Edit</a>
REPORTING_SERVICES_FOLDER	Folder path for reports off the root of reporting services	/Reconcilor	<a href="#">Edit</a>
REPORTING_SERVICES_INSTANCE	Instance name for Reporting services server	Sq2005	<a href="#">Edit</a>
REPORTING_SERVICES_SERVER	Server name for Reporting services	Reconcilor1	<a href="#">Edit</a>
STOCKPILE_SURVEY_THRESHOLD	Tonnes threshold before the survey is flagged as being a problem	5000	<a href="#">Edit</a>

[Export to CSV](#)

**Figure 9.41 Edit System Settings**



The dialog box is titled 'Edit System Settings' and contains the following information for the setting 'REPORTING\_SERVICES\_FOLDER':

- Setting: REPORTING\_SERVICES\_FOLDER
- Description: Folder path for reports off the root of reporting services
- Value: Reconcilor

**Save System Settings Edits**

## 9.18 Custom Fields Configuration

### 9.18.1 Reporting Threshold

This screen allows the user to configure the reporting thresholds (Figure 9.42). The reporting thresholds for the F1-F3 Tonnes and Grades can be set at any level in the location tree. If a threshold is not set at a location it will inherit the higher level settings.

**Figure 9.42 Custom Field Configuration Locations**

The screenshot shows the 'Custom Fields Configuration' interface under the 'Locations' tab. On the left, a sidebar titled 'Utilities' contains a brief description of its functions. The main area has two tabs: 'Locations' (selected) and 'Colors'. The 'Locations' tab displays a 'Location Picker' tree view with nodes for WAIO, Area C, NJV, Jimblebar, Whaleback, Orebody 18, OB23/25, Yarrie, and Yandi. To the right, the 'Reporting Threshold' section is visible, showing configuration for Tonnes, Fe, P, SiO2, AL2O3, LOI, and Density across the selected locations. A table below lists the thresholds inherited from the WAIO location. Buttons at the bottom allow for removing or applying threshold overrides.

Field	Inherited from WAIO
Tonnes	Low < [ ] <= Medium < [ ] <= High
Fe	Low < [ ] <= Medium < [ ] <= High
P	Low < [ ] <= Medium < [ ] <= High
SiO2	Low < [ ] <= Medium < [ ] <= High
AL2O3	Low < [ ] <= Medium < [ ] <= High
LOI	Low < [ ] <= Medium < [ ] <= High
Density	Low < [ ] <= Medium < [ ] <= High

### 9.18.2 Colour Configuration

Throughout the user interface the reporting F1, F2 and F3 have a standard colour set. The user can set the colour for the F1, F2 and F3 report through the Colours tab (Figure 9.43).

**Figure 9.43 Custom Field Configuration Colours**

The screenshot shows the 'Custom Fields Configuration' interface under the 'Colors' tab. On the left, a sidebar titled 'Utilities' contains a brief description of its functions. The main area has two tabs: 'Locations' (selected) and 'Colors' (selected). The 'Colors' tab displays a 'Configuration' section where users can set colors for F1 Factor, F2 Factor, and F3 Factor. The 'F1 Factor' is set to 'Custom Color: #169452' (green), 'F2 Factor' is set to 'Custom Color: #FD09FD' (magenta), and 'F3 Factor' is set to 'RoyalBlue'. A 'Save' button is located at the bottom right of the configuration panel.