



Daily Site Record Sheet

Date:	04/02/2015	Site:	Hafod LFS
Weather:	Cold/Dry	CQA Plan Ref:	

Visitors to Site:	Richard Clarke
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Work Inspected and Progress on Site:

Site induction early am before site walkover with contract manager and client.

Cell 3 sidewall upper lift works had begun with installation of a toe drain.

Dozer and excavator continued works preparing surface to receive GDL (Protexia FC 6-2.0 geocomposite)

Began deploying GDL mid-afternoon with panels 103 anchored in upper trench and running into drainage ditch at toe.

Surcharge placed on GDL with bucket, consisting suitable soils.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator Komatsu 75R excavator	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	05/02/2015	Site:	Hafor LFS
Weather:	Dry/Overcast	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Continued excavation of GDL anchor trench ahead of deployment.
Deployed 19 no panels of GDL surcharged and anchored.
A25 dumper, B30 dumper and Bomag pad foot roller delivered.

List of Plant	Hours of Operation	Comments
Volvo 240 excavator Komatsu 75R excavator	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	06/02/2015	Site:	Hafod LFS
Weather:	Frosty/Dry	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Early am too frosty to safely deploy further GDL.

Began placing engineered fill over previously deployed GDL as protection layer and to bring up slope to formation level.

B30 dumper running am due to oil leak on A25.

Remaining GDL (3 no panels) deployed early pm and 2 no dumpers and dozer used to place further engineered fill on top.

List of Plant	Hours of Operation	Comments
D6N dozer Volvo 240 excavator Bell B30 dumper Volvo A25 dumper	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	09/02/2015	Site:	Hafod LFS
Weather:	Dry/Overcast	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Excavator trimmed small section of tie-in to existing upper sidewall at southern end of works.
Hardcore added to access road.
Continued placing engineered fill on GDL at 9am.
B30 had light lens cover repaired at 9.50.
Most of exposed GDL covered by end of shift with only the leading edge exposed for later tie-in.
Pad foot roller used to compact fill to Highways specification.

List of Plant	Hours of Operation	Comments
Komatsu 75R excavator Volvo 240 excavator D6N Dozer B30 and A25 Dumpers Bomag BW213 roller	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	10/02/2015	Site:	Hafod LFS
Weather:	Overcast/Dry	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Pad foot roller continued compaction of engineered fill placed yesterday.

Excavator used to clear area adjacent to wheelwash, unsuitable material taken to tip face.

From 13.00 to 17.00 works continued placing and compacting engineered fill on upper section of sidewall. Roller tyre puncture at 16.00.

List of Plant	Hours of Operation	Comments
D6N Dozer A25. B30 dumpers Volvo 240 excavator Bomag 213 roller	07.30 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	11/02/2015	Site:	Hafod LFS
Weather:	Overcast/Dry	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Tyre repaired on roller between 8.00 and 10.30, no works on sidewall during this time.
Dozer, excavator and 1 no dumper used to improve site access road to next phase of capping.
During pm plant continued works on upper sidewall, tipping fill from haul road access at top of sidewall.
Compaction of fill carried out throughout the day.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator A25, B30 dumpers Bomag 213 roller	07.30 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	12/02/2015	Site:	Hafod LFS
Weather:	Dry/Overcast	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Dozer and roller continued placing and compacting engineered fill on upper section of upper sidewall, fill derived from dig adjacent to wheelwash.
Oven site testing carried out on proposed clay mineral liner.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator A25 dumper Bomag 213 roller	07.30 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	13/02/2015	Site:	Hafod LFS
Weather:	Overcast am/showers pm	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Continued placing engineered fill on upper section of upper sidewall, compacting with pad foot roller.

Engineered fill pushed out to form design level has formed a slope of approximately 1:2, had to be compacted by reversing from top. This will need further engineered fill placing on lower section to reduce the gradient to 1:3 for compaction and subsequent mineral liner placement.

Plant continued shaping the southern section of sidewall at the tie-in to existing. Unsuitable soils taken to tip for cover.

List of Plant	Hours of Operation	Comments
Komatsu 75R excavator Volvo 240 excavator Volvo A25 dumper	07.00 to 15.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	16/02/2015	Site:	Hafod LFS
Weather:	Rain amdry pm	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Overnight and continued early morning rain has halted works on sidewall fill.
Excavators used to trim materials from tie-in at southern end of sidewall creating a stepped tie-in.
Surveyor to check levels tomorrow.
Excavated materials taken to tip for cover.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator Komatsu 75R excavator Volvo A25 dumper	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	17/02/2015	Site:	Hafod LFS
Weather:	Dry/frosty	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Continued placing engineered fill on northern end of sidewall to bring toe out and reduce gradient to 1:3, needs to be checked by surveyor, maybe tomorrow.

A25 dumper to be swapped due to oil leak, so only 1 no dumper running at start of shift.

Replacement A25 delivered and used to move fill between 14.00 and end of shift.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator Bomag 213 roller B30, A25 dumpers	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	18/02/2015	Site:	Hafod LFS
Weather:	Cloudy/Breezy	CQA Plan Ref:	

Visitors to Site:	Staflsurv surveyor
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Work Inspected and Progress on Site:

Surveyor checked levels on sidewall for top of formation and D6 trimmed to instruction. Surveyor carried out several other surveys whilst on site.

Other plant cleaning out lagoon at base of site, placing us materials on tipping area.

Carried out construction of trial liner for AEGB/Mineral Liner during pm. 2no layers of clay deployed/compacted and sampled/tested. Samples retained for on-site testing and laboratory testing.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator B30 and A25 dumpers Bomag 213 roller	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	19/02/2015	Site:	Hafod LFS
Weather:	Showers am drier pm	CQA Plan Ref:	

Visitors to Site:	Gas inspection team
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Work Inspected and Progress on Site:

Continued placing/compacting AEGB layer 1 on sidewall. On-site oven testing suggests that material should fall within the acceptance envelope in terms of moisture content/dry density.
Liner material stockpiles vary a little in terms of moisture content and stone quantity present, however the material is similar enough to not require further trial liner testing at this time.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator Bomag 213 roller B30 and A25 dumpers	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	20/02/2015	Site:	Hafod LFS
Weather:	Dry	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Continued placing and compacting AEGB to form upper sidewall of cell3. Material is generally good with a slightly higher moisture content than previously deployed.
Samples collected for on-site and laboratory testing.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator Bomag 213 roller B30 and A25 dumpers	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	23/02/2015	Site:	Hafod LFS
Weather:	Cloudy with light showers	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Overnight rain saturated top surface of AEGB on sidewall. Dozer scraped off approximately 75mm of a section of layer 2 before placing/compacting fresh dug material during afternoon.

List of Plant	Hours of Operation	Comments
D6N Dozer Volvo 240 excavator Bomag 213 roller B30 and A25 dumpers	07.00 to 17.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	24/02/2015	Site:	Hafod LFS
Weather:	Showers and sunshine	CQA Plan Ref:	

Visitors to Site:	None
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Work Inspected and Progress on Site:

Overnight showers continued during am. Sidewall surface too saturated to place further layers of AEGB, plant used to take cover soils to capping area.

List of Plant	Hours of Operation	Comments
None on sidewall	07.00 to 13.00	

Prepared by:	Jim Gibson	Signed:	
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Daily Site Record Sheet

Date:	09/03/15	Site:	HAFOD L/F
Weather:	OVERCAST / LIGHT SHOWERS	CQA Plan Ref:	VERSION 2.0

Visitors to Site:	RICHARD CLARKE (STRATUS)
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Work Inspected and Progress on Site:

- * RE-ROLLED LAYER 3 OF WESTERN UPPER SIDEWALL, CELL 3.
- * STARTED THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER LAYER 4. TO UPPER WESTERN SIDEWALL
- * CONTINUATION OF THE CLAY LINER MINERAL CONFORMANCE TESTING
- * ALL CLAY SOURCED FROM SITE, AND SELECTIVE EXCAVATION WAS REQUIRED
- * ALL COMPACTION UNDERTAKEN USING SELF-PROPELLED ROLLER PASSING 8 TIMES.

List of Plant	Hours of Operation	Comments
BOMAG BW 213 DH CAT D6R VOLVO EC240LC VOLVO A25D	BELL B30D 07.00 - 17.00	

Prepared by:		Signed:	LMWLL
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Daily Site Record Sheet

Date:	10/03/15	Site:	HAFOD L/F
Weather:	SUNNY	CQA Plan Ref:	VERSION 2.0

Visitors to Site:		
Work Inspected and Progress on Site:		
<ul style="list-style-type: none">* CONTINUATION OF THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER TO UPPER WESTERN SIDEWALL.* CONTINUATION OF THE CLAY LINER MINERAL CONFORMANCE TESTING.* ALL CLAY SOURCED FROM SITE. SELECTIVE EXCAVATION WAS REQUIRED.* ALL COMPACTION UNDERTAKEN WITH SELF-PROPELLED ROLLER PASSING 8 TIMES		
List of Plant	Hours of Operation	Comments
BOMAG BW 213 DH CAT D6R VOLVO EC 240LC VOLVO A25D BELL B30P	07.00 - 17.00	
Prepared by:		Signed: <i>Am H A L</i>



Daily Site Record Sheet

Date:	11/03/15	Site:	HAFOD L/F
Weather:	OVERCAST / RAIN	CQA Plan Ref:	VERSION 2.0

Visitors to Site:		
Work Inspected and Progress on Site:		
<ul style="list-style-type: none">* CONTINUATION OF THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL.* CONTINUATION OF THE CLAY LINER MINERAL CONFORMANCE TESTING.* ALL CLAY SOURCED FROM SITE. SELECTIVE EXCAVATION WAS REQUIRED* ALL COMPACTION UNDERTAKEN WITH SELF-PROPELLED ROLLER PASSING 8 TIMES.		
List of Plant	Hours of Operation	Comments
BOMAG BW 213 DH CAT D6R VOLVO EC 240 LC VOLVO A25D BELL B30D	07.00 - 17.00	
Prepared by:		Signed: <i>MMWLC</i>



Daily Site Record Sheet

Date:	12/03/15	Site:	HAFOD L/F
Weather:	OVERCAST / LIGHT SHOWERS	CQA Plan Ref:	VERSION 2.0.

Visitors to Site:		
Work Inspected and Progress on Site:		
<p>* CONTINUATION OF THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL</p> <p>* CONTINUATION OF THE CLAY LINER MINERAL CONFORMANCE TESTING.</p> <p>* ALL CLAY SOURCED FROM SITE. SELECTIVE EXCAVATION WAS REQUIRED.</p> <p>* ALL COMPACTION UNDERTAKEN WITH SELF-PROPELLED ROLLER PASSING 8 TIMES.</p>		
List of Plant	Hours of Operation	Comments
BOMAG BW 213 DH CAT D6R VOLVO EC 240 LC VOLVO A25D BELL B30D	07.00 - 17.00.	
Prepared by:		Signed: <i>hmywhil</i>



Daily Site Record Sheet

Date:	13/03/15	Site:	HAFOD L/F
Weather:	RAIN	CQA Plan Ref:	VERSION. 2.0.

Visitors to Site:		
Work Inspected and Progress on Site:		
No works UNDERTAKEN TODAY DUE TO WET WEATHER + WET GROUND CONDITIONS. WILL RESUME ENGINEERING WORKS A.M. 16/03/15.		
List of Plant	Hours of Operation	Comments
Prepared by:		Signed: <i>h m wh-l.</i>



Daily Site Record Sheet

Date:	16/03/15	Site:	HAFOD L/F
Weather:	OVERCAST	CQA Plan Ref:	VERSION 2.0.

Visitors to Site:		
Work Inspected and Progress on Site:		
<ul style="list-style-type: none">* CONTINUATION OF THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL.* CONTINUATION OF CLAY LINER MINERAL CONFORMANCE TESTING* ALL CLAY SOURCED FROM SITE, SELECTIVE EXCAVATION WAS REQUIRED.* ALL COMPACTION UNDERTAKEN WITH SELF-PROPELLED ROLLER PASSING 8 TIMES.		
List of Plant	Hours of Operation	Comments
BOMAG BW 213DH CAT D6R VOLVO EC 240 LC VOLVO A25D BELL B30P	07.00 - 17.00	
Prepared by:		Signed: <i>hmy whl.</i>



Daily Site Record Sheet

Date:	17/03/15	Site:	HAFOD L/F
Weather:	OVERCAST / LIGHT RAIN	CQA Plan Ref:	VERSION 2.0.

Visitors to Site:	
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Work Inspected and Progress on Site:

- * CONTINUATION OF THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL
- * CONTINUATION OF CLAY LINER MINERAL CONFORMANCE TESTING.
- * ALL CLAY SOURCED FROM SITE, SELECTIVE EXCAVATION WAS REQUIRED.
- * ALL COMPACTION UNDERTAKEN WITH SELF-PROPELLED ROLLER PASSING 8 TIMES
- * TIED INTO EXISTING LINER BY CUTTING 250mm x 250mm STEPS.

List of Plant	Hours of Operation	Comments
BOOM B60 213 DH CAT D6R VOLVO EC 240LC VOLVO A25D WHEEL B30D	07.00 - 17.00	

Prepared by:		Signed:	h M whil
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Daily Site Record Sheet

Date:	18/03/15	Site:	HAFOD L/F
Weather:	SUNNY	CQA Plan Ref:	VERSION 2.0.

Visitors to Site:		
Work Inspected and Progress on Site:		
<ul style="list-style-type: none">* CONTINUATION OF THE PLACEMENT / COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL.* CONTINUATION OF CLAY LINER MINERAL CONFORMANCE TESTING.* ALL CLAY SOURCED FROM SITE, SELECTIVE EXCAVATION WAS REQUIRED.* ALL COMPACTION UNDERTAKEN WITH SELF-PROPELLED BAD-FOOD ROLLER PASSING 6 TIMES.* TIED INTO EXISTING CLAY LINER BY CUTTING 250mm x 250mm STEPS		
List of Plant	Hours of Operation	Comments
POMAN BW 213 DH CAT D6R VOLVO EC 240 LC VOLVO A25D BELL B30D	07.00 - 17.00	
Prepared by:		Signed: <i>hmywhl</i>



Daily Site Record Sheet

Date:	19/03/15	Site:	HAFOD L/F
Weather:	SUNNY	CQA Plan Ref:	VERSION 2.0

Visitors to Site:		
Work Inspected and Progress on Site:		
<ul style="list-style-type: none">* CONTINUATION OF THE PLACEMENT/COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL* CONTINUATION OF CLAY LINER MINERAL CONFORMANCE TESTING* ALL CLAY SOURCED FROM SITE, SELECTIVE EXCAVATION WAS REQUIRED.* ALL COMPACTION UNDERTAKEN USING SELF-PROPELLED PAD-FOOT ROLLER PASSING 8 TIMES* TIED INTO EXISTING CLAY LINER BY CUTTING 250mm x 250mm STEPS.		
List of Plant	Hours of Operation	Comments
BOMAG BW 213 DH CAT D6R VOLVO EC 240 LC VOLVO A25D BELL B30D	07.00 - 17.00	
Prepared by:		Signed: <i>A. M. White</i>



Daily Site Record Sheet

Date:	20/03/15	Site:	HAFOD L/F
Weather:	SUNNY/BECHING OVERCAST	CQA Plan Ref:	VERSION 2.0

Visitors to Site:		
Work Inspected and Progress on Site:		
<ul style="list-style-type: none">* CONTINUATION OF THE PLACEMENT/COMPACTION OF ENGINEERED CLAY LINER TO WESTERN UPPER SIDEWALL.* ALL CLAY SOURCED FROM SITE, SELECTIVE EXCAVATION WAS REQUIRED* ALL COMPACTION UNDERTAKEN USING SELF-PROPELLED PAD-FOOT ROLLER PASSING 8 TIMES.* FINAL LAYER TIED INTO EXISTING LINER BY CUTTINGS 250mm x 250mm STEP.		
List of Plant	Hours of Operation	Comments
BOMAG BW 213 DM VOLVO EC 240 LC CAT D6R VOLVO 425D PILL B30D	07.00 - 18.00	
Prepared by:		Signed: M W L.