CONSTRUCTION COMPLIANCE REPORT (PROGRESSIVE)

REDCLIFFE PROJECT

W6650/2022/1

28 January 2025

Version 1

Document Control

Version	Date	Author	Reviewer	Approved
1.0	28 January 2025	[redacted] Genesis Minerals – Senior Environmental Advisor	Genesis Minerals - Superintendent Environmental	Genesis Minerals - Superintendent Environmental

Genesis Minerals Limited | ABN 72 124 772 041

Level 7, 40 The Esplanade, Perth WA 6000 | PO Box Z5024, Cloisters Square WA 6850 | Australia

Tel +61 (0)8 6323 9050

www.genesisminerals.com.au

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1. INTRODUCTION

This Environmental Compliance Report has been prepared by Genesis Minerals Limited to satisfy Condition 2 of Works Approval W6650/2022/1 (the **Works Approval**) and the requirements therein associated with the installation of the following infrastructure:

- Item 1: Dewatering Pipelines.

1.1 PRESCRIBED PREMISES CATEGORY

Infrastructure in this CCR is associated with the following Prescribed Premise Categories (Table 1).

Table 1 Prescribed Premises Category

Prescribed Premises Category	Assessed production / throughput capacity.
Category 6: Mine Dewatering	471,500 tonnes per annual period

1.2 CONSTRUCTION AND INSTALLATION REQUIREMENTS

This report demonstrates compliance with the construction and installation requirements of Works Approval Licence Condition 1, Table 1, Item 1 – Dewatering pipelines. The infrastructure was constructed on 16 January 2025

Table 2 Construction and installation requirements (W6650/2022/1; LC1, Table 1, Item 1).

Item	Infrastructure and / or equipment	Design and construction / installation requirements	Infrastructure Location
1	Dewatering pipelines and brine pipelines (includes all pipelines from dewater storage or treatment infrastructure (oily water separator) at the truck wash facility)	(a) Pipeline without telemetry to be provided with secondary containment adequate to contain any spill for a period equal to the time between routine inspections; or (b) Pipeline to be installed with telemetry system and auto shut-off to detect and control leaks; and (c) Installed with flow meters at discharge points to Redcliffe, Mesa and Mertondale No. 5 pits.	Dewatering pipeline route from the mining areas to the pits to be located as shown in Figure 2, Schedule 1. Brine pipelines and pipelines from/between storage and treatment facilities are not specified

2. CONSTRUCTION TO REQUIREMENTS EVIDENCE

2.1 ITEM (1) DEWATERING

2.1.1 FACILITY SITING

Dewatering of the Hub Central Pit and Hub South Pit is managed through a series of depressurization bores surrounding each pit, with the abstracted water reporting to the Hub Turkeys Nest via two pipelines (one from each pit). The abstracted water is utilized for two purposes: dust suppression and dewatering (discharge) to facilitate mining. The standpipes are directly adjacent to the Turkey's Nest at Hub, and a separate pipeline transports water from the Tukey's Nest to the Mesa Pit for discharge. The pipelines are sited on M37/1348 and M371286 within the Works Approval Boundary, as generally indicated in the Works Approval. Locations are shown in Figure 1 and Figure 2.

Figure 1: Redcliffe (Hub) Dewatering Network

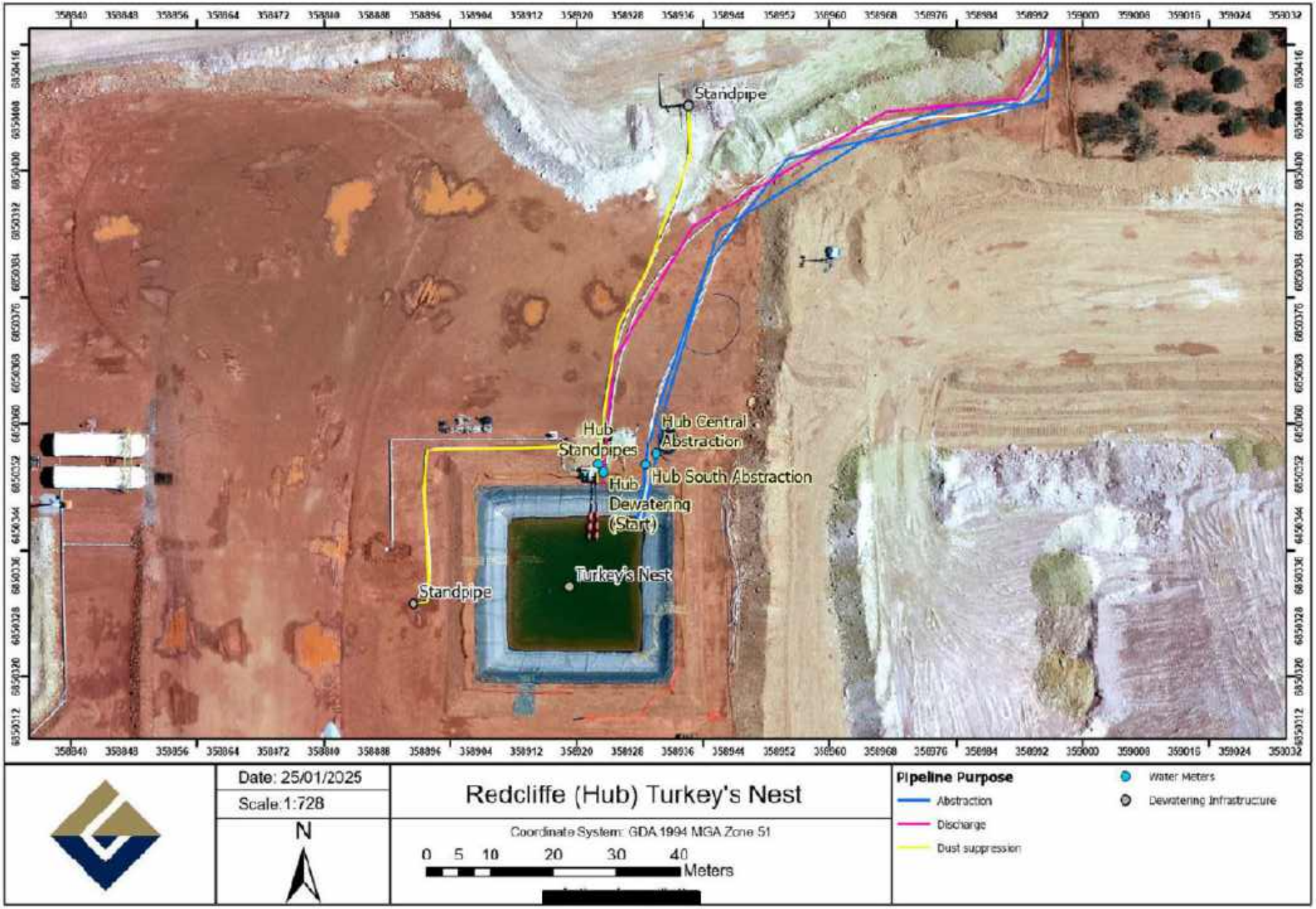


Figure 2: Redcliffe (Hub) Dewatering Network at Turkey's Nest.

2.1.2 DESIGN

Table 3 indicates the design requirements and evidence supporting the design to specifications for Item 1 - Dewatering.

Table 3: Design Requirements for Dewatering Infrastructure

Design Requirement	Summary	Evidence
a) Provided with secondary containment adequate to contain any spill for a period equal to the time between routine inspections **or** b) Installed with telemetry system and auto shut-off to detect and control leaks	The Hub to Mesa Pit dewatering Line is installed with Telemetry and is set to automatically shut-off once a leak is detected.	Flow Meters and Leak Detection Control Panel Images (Appendix 1) Engineer Sign-Off (Appendix 4)
c) Installed with flow meters at discharge points to Redcliffe, Mesa and Mertondale No. 5 pits.	A Siemens SITRANS FMS500 magnetic flow meter (SN: N15918024655) is installed at the current discharge point at Mesa Pit.	Flow Meters and Leak Detection Control Panel Images (Appendix 1)

3. COMPLIANCE SUMMARY

A summary of compliance against works approval conditions relevant for the construction of infrastructure at the Redcliffe Gold Project is detailed in Table 4

Table 4: Summary of compliance with relevant licence conditions to this report.

Works Approval Condition No.	Condition	Compliance Statement
1	*The works approval holder must construct and/or install the infrastructure and/or equipment;* *(a) in accordance with the corresponding design and construction / installation requirements; and* *(b) at the corresponding infrastructure location; as set out in Table 1.*	**Compliant** a) As evidenced in Table 3. b) Location presented in Figure 1 and Figure 2
2	*The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:*	**Compliant** The construction of the pipeline and telemetry was finalized on 16 January 2025, and subsequently this report is

	a) undertake an audit of their compliance with the requirements of condition 1; and *(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.*	compliant with condition given its submission prior to 15 February. This submission of this report is the evidence a) and b) of condition 2.
3	*The works approval holder must ensure that the Environmental Compliance Report required by condition 2(b), includes as a minimum the following:* *(a) certification by a qualified civil or structural engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;* *(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1;* *(c) a schematic diagram of the dewatering network that shows the elements of the dewatering network and how the network has been designed to incorporate movement of dewater effluent between the mining voids, turkey's nests/dams and the final disposal point/s;* *(d) photographs of each dewater effluent storage turkey's nests/dams and the pipelines that transport dewater effluent to and from the infrastructure;* *(e) photographs of the truck washdown facility oily water separator and the pipelines that transfer dewater to and from the infrastructure; and* *(f) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.*	Evidence of compliance to the conditions are provided in the following: a) Appendix 4. b) Figure 1 and Figure 2. c) Appendix 3. d) Appendix 1 e) Not Applicable for this infrastructure. f) See Conclusion of this report

4. CONCLUSION

Genesis confirms that the construction of the following items of infrastructure meet the requirements set out in LC 1, Table 1 of the Redcliffe Gold Project Works Approval:

- Item 1: Dewatering Pipelines

Sincerely,

General Manager – Genesis Minerals Leonora Operations.

APPENDIX 1 – IMAGES

Figure 3: Dewatering from Turkey Nest - Standpipes Line (left Mesa Discharge Line (right)

Figure 4: Telemetry Box, Pump and Metering Set-Up for Standpipe Line (right) and Mesa Discharge Lines (left)

Figure 5: Magnetic flow meters for Telemetry - Turkeys Nest End (left), Mesa Discharge End (right)

APPENDIX 2 – POLYWELDING CERTIFICATE (SAMPLE)

MEMORANDUM

GENESIS MINERALS LIMITED

Appendix 3 – Example of Poly Weld Records and Bore Specifications

Figure 3.1 – Poly Weld Traceability Records

DAILY WELD TRACEABILITY RECORDS

GREENLANDS EQUIPMENT

DATE	10/11/2024
PROJECT JOB NO.	R0165
PROJECT NAME	Mubmire Gwalia

NAME [redacted]

WELD INFORMATION | WELD ACTUAL PARAMETERS

Weld No	Weld Stamp ID	Machine ID	Line No.	Pipe Size	Pipe PN	Weld Classification	Ref. Chainage (Location)	Heater Plate Temp (°C)	Bead Up Pressure (Bar/Kpa)	Drag Pressure (Bar/Kpa)	Heat Soak Time (min/sec)	Fusion Joint Pressure (Bar/Kpa)	Cooling Time Under Pressure (min)	Alignment Check	Visual Inspection Performed
18	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
19	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
20	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
21	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
22	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
23	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
24	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
25	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
26	6454	06		250	10	ML		225	1621	1000	3.45	2621	19	✓	✓
27	6454	~~06~~10		160	10	T		225	1005	1000	2.10	2005	13	✓	✓
28	6454	10		160	10	T		225	1005	1000	2.10	2005	13	✓	✓
29	6454	10		160	10	T		225	1005	1000	2.10	2005	13	✓	✓
30	6454	10		160	10	ML		225	1005	1000	2.10	2005	13	✓	✓
31	6454	10		160	10	elbow		225	1005	1000	2.10	2005	13	✓	✓
32	6454	10		160	10	elbow		225	1005	1000	2.10	2005	13	✓	✓
33	6454	10		110	10	R		225	544	1000	1.56	1594	10	✓	✓
34	6454	10		160	10	R		225	1005	1000	2.10	2005	13	✓	✓

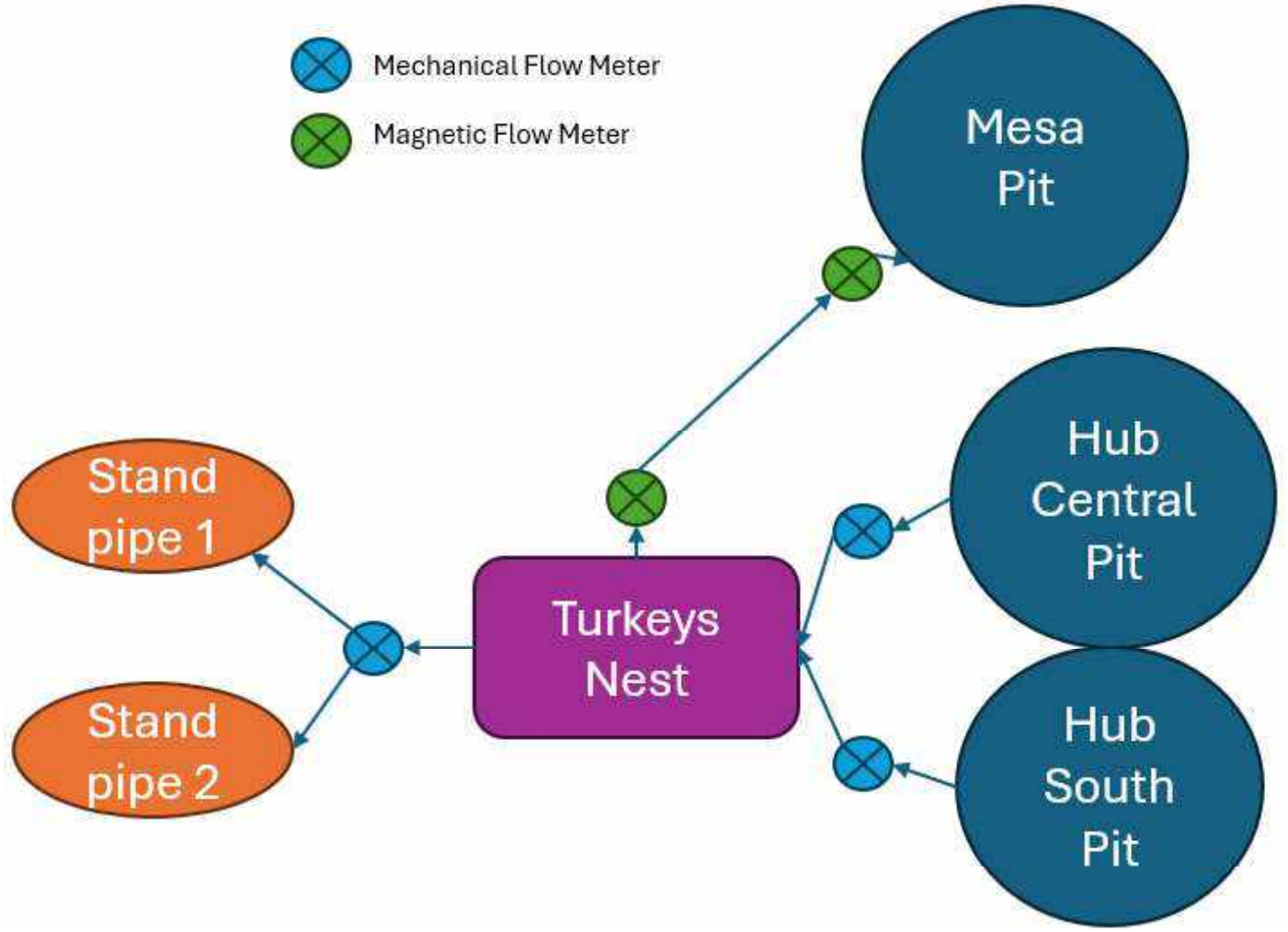
WELD CLASSIFICATIONS: (ML) Mainline Weld - (FM) Flow Meter - (S) Spooling - (F) Fitting - (ET) Equal Tee - (TW) Tie in Weld - (ST) Stub Flange - (SC) Special Crossings - (R) Reducer - (RT) Reduced Tee

COMMENTS

SIGNATURE [redacted] (Welder) DATE 10/11/2024

SIGNATURE _____ (QA/QC Engineer) DATE _____

APPENDIX 3 – WATER NETWORK SCHEMATIC



APPENDIX 4 – MEMO: ENGINEER SIGN OFF

MEMORANDUM

GENESIS MINERALS LIMITED

[redacted]

Date: 28/1/2025

Subject: W6650/2022/1 Construction Compliance Report – Item (1) Dewatering Pipelines

The intent of this memo is to satisfy Condition 3a of Works Approval W6650/2022/1 for the construction of the Dewatering Pipeline Infrastructure (Condition 1, Table 1, Item 1), and support submission of the Construction Compliance Report to the Department of Water and Environmental Regulation (**DWER**).

Design and Construction / Installation Requirements

Dewatering pipelines and associated infrastructure have been constructed in accordance with the design requirements and in the location required by Condition 1, Table 1, Item 1 as summarised in below (Table 1).

Table 1 Design and construction/installation requirements for W6650/2022/1

Item	Infrastructure and / or equipment	Design and construction / installation requirements	Infrastructure Location
1	Dewatering pipelines and brine pipelines (includes all pipelines from dewater storage or treatment infrastructure (oily water separator) at the truck wash facility)	(a) Provided with secondary containment adequate to contain any spill for a period equal to the time between routine inspections; **or** (b) Installed with telemetry system and auto shut-off to detect and control leaks; and (c) Installed with flow meters at discharge points to Redcliffe, Mesa and Mertondale No. 5 pits.	Dewatering pipeline route from the mining areas to the pits to be located as show in Figure 2, Schedule 1.

Furter information is included in the appendices and the construction compliance report.

Yours sincerely,

[redacted]

Senior Projects Engineer
Genesis Minerals Limited

APPENDIX 1 – PHOTOS OF COMPLETED CONSTRUCTION OF INFRASTRUCTURE

Figure 1.1 – Typical Bore Installation

Figure 1.2 Mesa Transfer Pumps

Figure 1.3 Mesa Telemetry Panel

Figure 1.4 Mesa Discharge Flowmeter Details

Figure 1.5 Turkey Nest Discharge Flowmeter Details

Figure 1.6 Central Pit Abstraction Flow Meter Details

Figure 1.7 South Pit Abstraction Flowmeter Details

Figure 1.8 Standpipe Discharge Flowmeter Details-1

Figure 1.9 Standpipe Discharge Flowmeter Details - 2

Figure 1.10 Mesa Transfer line in V-drain

APPENDIX 2 – Flowmeter Data and Telemetry Logic

Description	Model	Serial Number
Turkey Nest Discharge	Siemens Sitrans FMS500	N15918024656
Mesa Discharge	Siemens Sitrans FMS500	N15918024655
Standpipe Discharge	Bermad Turbo-IR-M	24-01664
Central Pit Abstraction	Bermnad Turbo-IR-M	24-09838
South Pit Abstraction	BIL	2406016948

Leak detection to stop pump and output to fault indicator light under following conditions:

10%	30 minutes
30%	20 minutes
50%	10 minutes

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Appendix 3 – Example of Poly Weld Records and Bore Specifications

Figure 3.1 – Poly Weld Traceability Records

DAILY WELD TRACEABILITY RECORDS

GREENLANDS EQUIPMENT

DATE	10/11/2024
PROJECT JOB NO.	R0165
PROJECT NAME	Hubmire Gwalia

NAME [redacted]

WELD INFORMATION								WELD ACTUAL PARAMETERS							
Weld No	Weld Stamp ID	Machine ID	Line No.	Pipe Size	Pipe PN	Weld Classification	Ref. Chainage (Location)	Heater Plate Temp (°C)	Bead Up Pressure (Bar /Kpa)	Drag Pressure (Bar/Kpa)	Heat Soak Time (min/sec)	Fusion Joint Pressure (Bar/Kpa)	Cooling Time Under Pressure (min)	Alignment Check	Visual Inspection Performed
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29	6454	10		160	10	T		225	1005	1000	2.10	2005	13	✓	✓
30	6454	10		160	10	ML		225	1005	1000	2.10	2005	13	✓	✓
31	6454	10		160	10	elbow		225	1005	1000	2.10	2005	13	✓	✓
32	6454	10		160	10	elbow		225	1005	1000	2.10	2005	13	✓	✓
33	6454	10		110	10	R		225	544	1000	1.56	1594	10	✓	✓
34	6454	10		160	10	R		225	1005	1000	2.10	2005	13	✓	✓

WELD CLASSIFICATIONS: (ML) Mainline Weld - (FM) Flow Meter - (S) Spooling - (F) Fitting - (ET) Equal Tee - (TW) Tie in Weld - (ST) Stub Flange - (SC) Special Crossings - (R) Reducer - (RT) Reduced Tee

COMMENTS

SIGNATURE [redacted] (Welder) DATE 10/11/2024

SIGNATURE _____ (QA/QC Engineer) DATE _____

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Figure 3.2 - Bore Pump Data

Bore Number	Flow	Estimated Pump Head Pressure (m)	Rising Main Length	Cable Length	Pump kW	Pump FLC	Pump Model
South Pit Bore Systems							
WB01	0.5L/s (Estimated)	135m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 150m	139m	149m	2.2kW	5.30	SS0422 Mono 2.2kW
WB02	0.5L/s (Estimated)	71m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 86m	74m	84m	2.2kW	5.30	SS0422 Mono 2.2kW
WB03	0.5L/s (Estimated)	49m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 64m	52m	62m	2.2kW	5.30	SS0422 Mono 2.2kW
WB04	0.2L/s	37m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 52m	40m	50m	2.2kW	5.30	SS0422 Mono 2.2kW
North Pit Bore Systems							
WB05	0.2L/s	51m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 66m	54m	64m	2.2kW	5.30	SS0422 Mono 2.2kW
WB06	0.5L/s (Estimated)	66m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 81m	69m	79m	2.2kW	5.30	SS0422 Mono 2.2kW
WB07	0.7L/s	78m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 93m	81m	92m	2.2kW	5.30	SS0422 Mono 2.2kW
WB08	0.5L/s (Estimated)	22m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 35m	25m	35m	2.2kW	5.30	SS0422 Mono 2.2kW
WB09	0.11L/s	40m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 55m	42m	52m	2.2kW	5.30	SS0422 Mono 2.2kW
WB10	5L/s	59m Estimated Draw Down + 5m Friction Loss + 10m Head Rise = 74m	62m	72m	7.5kW	18.00	Panelli 95SX18/27 7.5kW