

Meeting record

Project number	194C/2020/21	Meeting date	2023-06-20
Project name	CCT's New Water Projects	Recorded by	SM and JF
Meeting/subject	CCT's New Water Projects under DEA&DP S30A Directive: 16/6/A7/4/3128/17: Updates and discussions	Total pages	2

Present	Apology	Copy	Name	Organisation	Contact details
☒	☐	☐	Mr Eldon van Boom	DEA&DP	Eldon.vanBoom@westerncape.gov.za
☒	☐	☐	Mr Keith Wiseman	CCT: EMD	Keith.Wiseman@capetown.gov.za
☒	☐	☐	Mr Linda Ndlela	CCT: EMD	Linda.Ndlela@capetown.gov.za
☒	☐	☐	Mr Jarryd Finkelstein	Zutari	Jarryd.finkelstein@zutari.com
☒	☐	☐	Ms Xanté Eberhardt	Zutari	Xante.Eberhardt@zutari.com
☒	☐	☐	Mr Stefan Milandri	Zutari	Stefan.Milandri@zutari.com

Item	Topic	Action by
1	A presentation covering the topics below were presented to the attendees – a copy of the presentation is attached to these minutes.	No further action required
2	An update on the progress with the MMP application for the Steenbras Wellfield (and possible future amendment to include Nuweberg Wellfield, once completed): - NEMA s24(c) DFFE agreement, for DEA&DP to be CA for Steenbras MMP, anticipated shortly. Once received, MMP application to be submitted to DEA&DP, with GNR 982 s41(2) PPP to be undertaken. - Generic Environmental Method Statements to be submitted with MMP, for approval by DEA&DP. - Timeframe for approval of MMP ~3-4months.	DEA&DP

Item	Topic	Action by
3	Discussion on the interim options for maintenance that trigger NEMA listed activities for the operations team at Steenbras between now and until the MMP is approved; - Like-for-like repairs to damaged infrastructure may be undertaken, with Environmental Method Statements submitted to CCT: EMD for comment/approval. DWS emergency provisions must also be considered. - If work triggering NEMA listed activities fits definition of NEMA s30A, then a request for such may be submitted to DEA&DP, for consideration. - Operational maintenance (e.g., clearing >300m veg to repair pipe leaks) to wait until MMP approved, or follow previous two bullets, if applicable.	Zutari
4	Update and discussion regarding the Nuweberg Wellfield of the TMGA project, and moving the competency from DFFE to DEA&DP; - Competency to remain with DFFE for construction of wellfield. - NEMA s24(c) agreement for DEA&DP to be CA for Nuweberg Wellfield MMP to be considered once wellfield is completed.	No further action until completion of Nuweberg wellfield
5	Update and discussion regarding the Groenlandberg Wellfield of the TMGA project, and moving the competency from DFFE to DEA&DP; - NEMA s24(c) agreement for DEA&DP to be competent authority for Groenlandberg wellfield to be requested. Groenlandberg wellfield covered under DEA&DP s30A Directive, but falls along the edge of the Theewaterskloof dam, which though mapped as a core zone (DFFE competency), is a transformed environment between agricultural areas, and the edge of the dam. - If DFFE decline such agreement, then EIA process to be followed.	Zutari
6	Discussion regarding the upcoming MMP application for the Atlantis Water Resource Management Scheme, which also has portions of that fall within the core zone of the Cape West Coast Biosphere Reserve, and portions that do not; Percentage of wellfield falling to DEA&DP and DFFE to be confirmed and communicated to DEA&DP. If >50% for DFFE areas, then submit MMP to DFFE. If <50%, DEA&DP to potentially request NEMA s24(c) agreement to be CA.	Zutari
7	Discussion regarding the inclusion of the pipeline from the Faure New Water Plant to the Blackheath Reservoir, under the S30A Directive. The pipeline was requested to be included prior to the lapsing of the State of Emergency and would enable the CCT to distribute the treated water to the whole metropolitan area. - Motivation for inclusion of pipeline from Faure Zone 2 plant to Blackheath Reservoir under current DEA&DP s30A Directive, to be submitted to DEA&DP. - If declined by DEA&DP, then EIA process to be followed. - The motivation will be provided if/when the design team confirm that the pipeline is required.	Zutari

NEMA S30A
Directive Projects –
City of Cape Town
Water Resilience

ZUTARI
IMPACT. ENGINEERED.



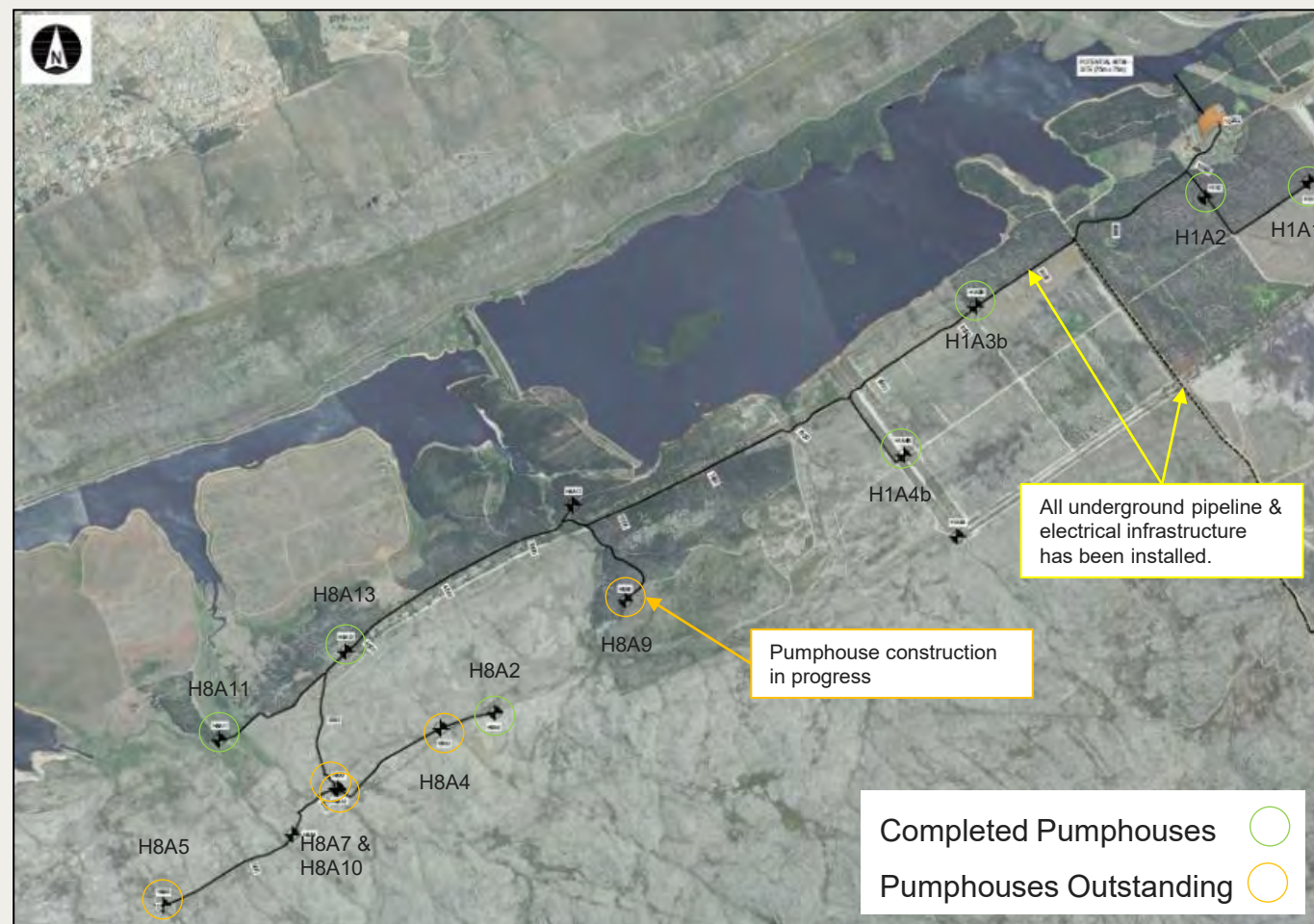
- 1 Steenbras wellfield MMP update
- 2 Steenbras wellfield interim options for maintenance
- 3 Update and discussion – Nuweberg wellfield
- 4 Update and discussion – Groenlandberg wellfield
- 5 Discussion – upcoming MMP application for Atlantis Scheme

- 6 Discussion - inclusion of pipeline from Faure to the Blackheath Reservoir

Table Mountain Group Aquifer – Steenbras wellfield

Steenbras wellfield

- Installation of 14km of pipeline completed
- Drilling of production boreholes and the construction of pumphouses;
 - 9 production boreholes completed with 7 pumphouses completed (1 pumphouse in progress)
 - 3 production boreholes still in progress
- Construction of new road and bridges;
- Overhead electrical line
- Construction of aboveground and belowground pipeline stream crossings;
- Drilling and equipping of monitoring boreholes.
 - Total of 22 monitoring boreholes (9 shallow monitoring BHs for wetlands, 7 Nardouw BHs, and 6 Peninsula BHs)



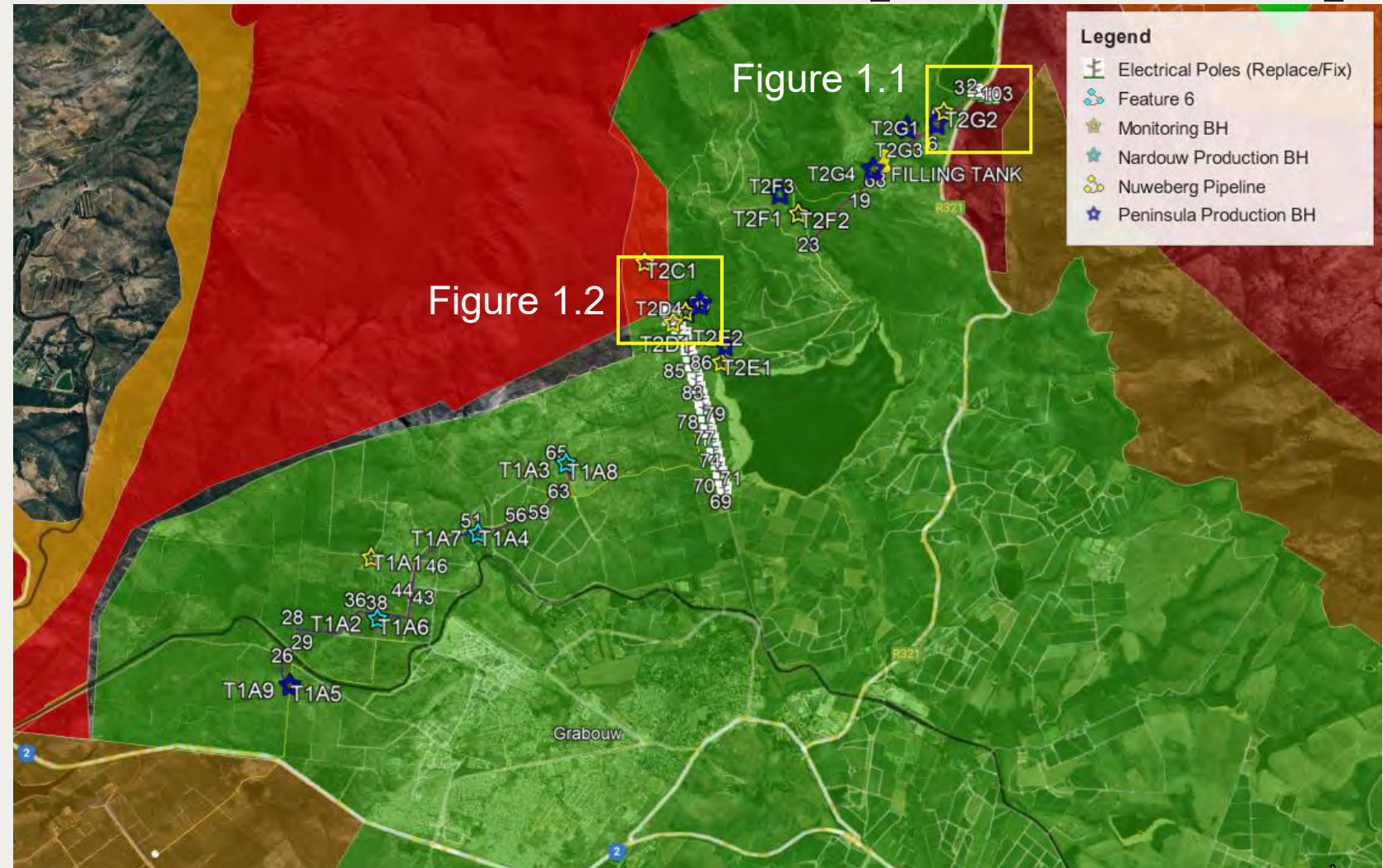
Steenbras wellfield

- Progress update on Steenbras wellfield MMP application (agreement in terms of section 24C(3))
- Confirmation of PPP requirements
 - 30 Days
 - Neighbouring landowners, stakeholder monitoring committee and ward councillors
 - Zutari website
 - Advert in local newspaper
- Interim options for maintenance that trigger NEMA listed activities for the operations team at Steenbras between now and until the MMP is approved
 - Use of previously approved method statements
 - Development of interim method statements
 - Contact with DEA&DP case officer prior to commencement of listed activities

Table Mountain Group Aquifer – Nuweberg wellfield

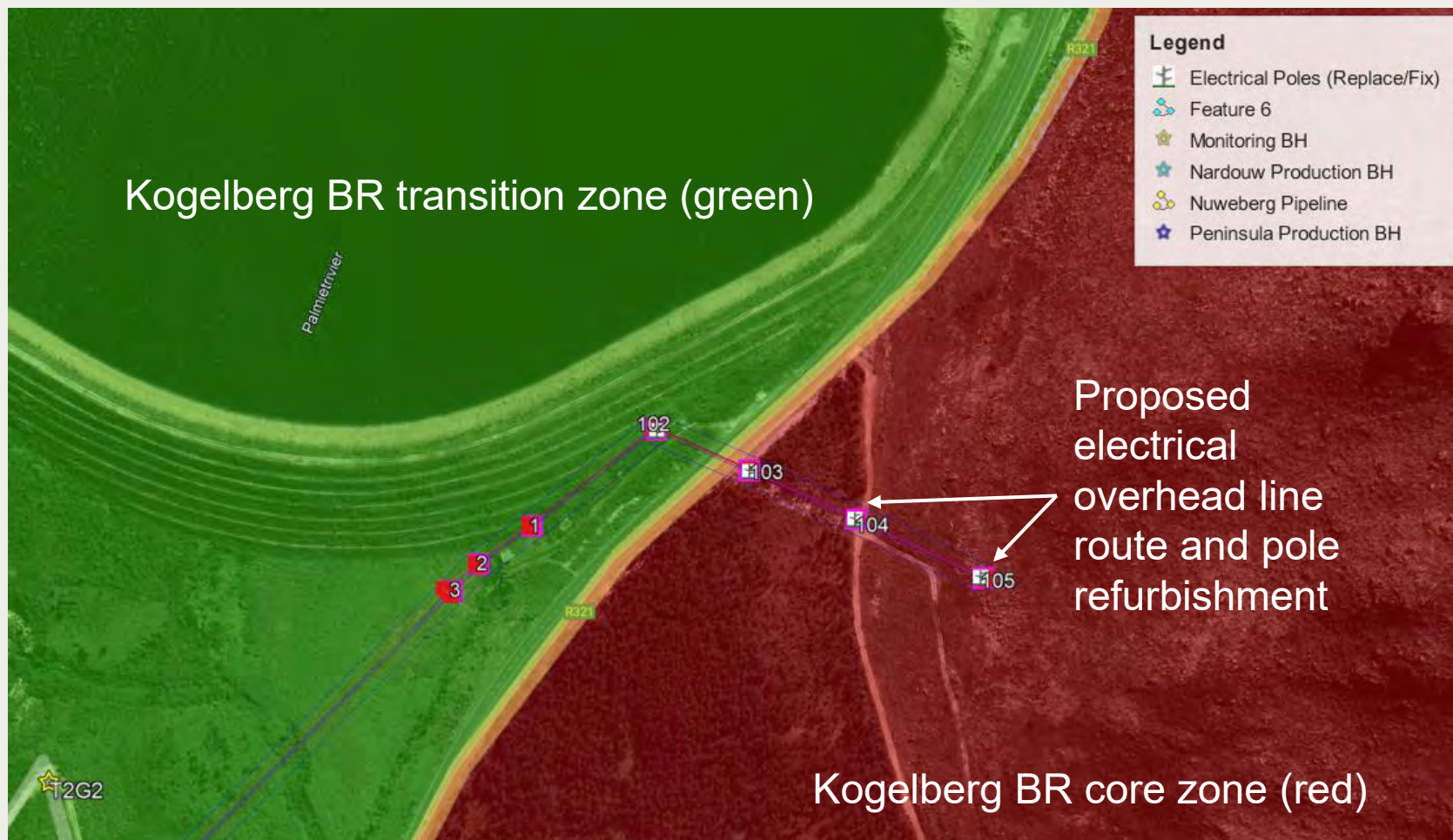
Nuweberg wellfield infrastructure and biospheres overlap

- Kogelberg Biosphere Reserve (KBR) dataset date = 2020
- Cape Winelands Biosphere Reserve (CWBR) dataset date = 2009



Nuweberg wellfield infrastructure and biospheres overlap

Kogelberg Biosphere Reserve – Figure 1.1



Nuweberg wellfield infrastructure and biospheres overlap

Cape Winelands Biosphere Reserve – Figure 1.2

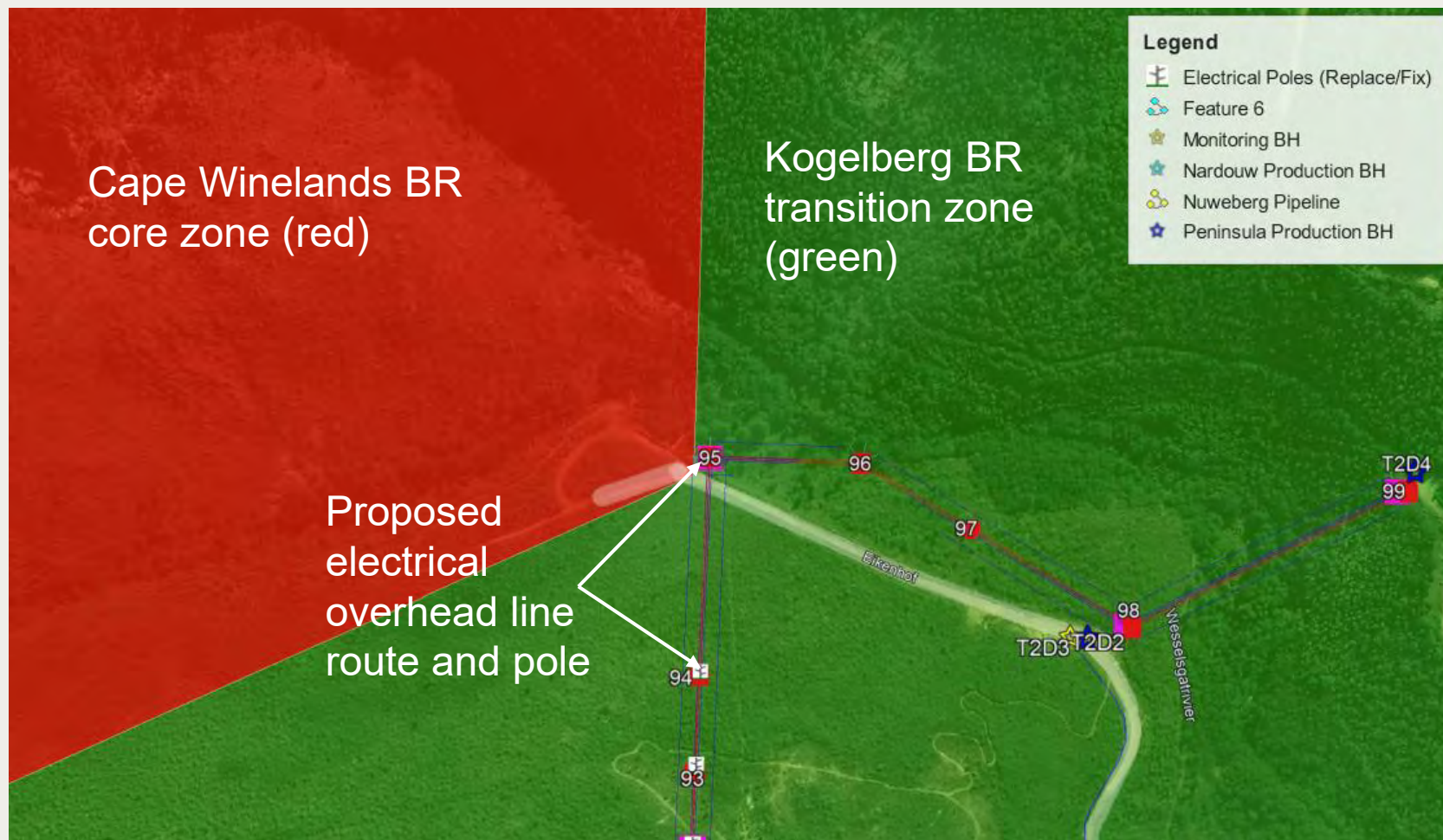
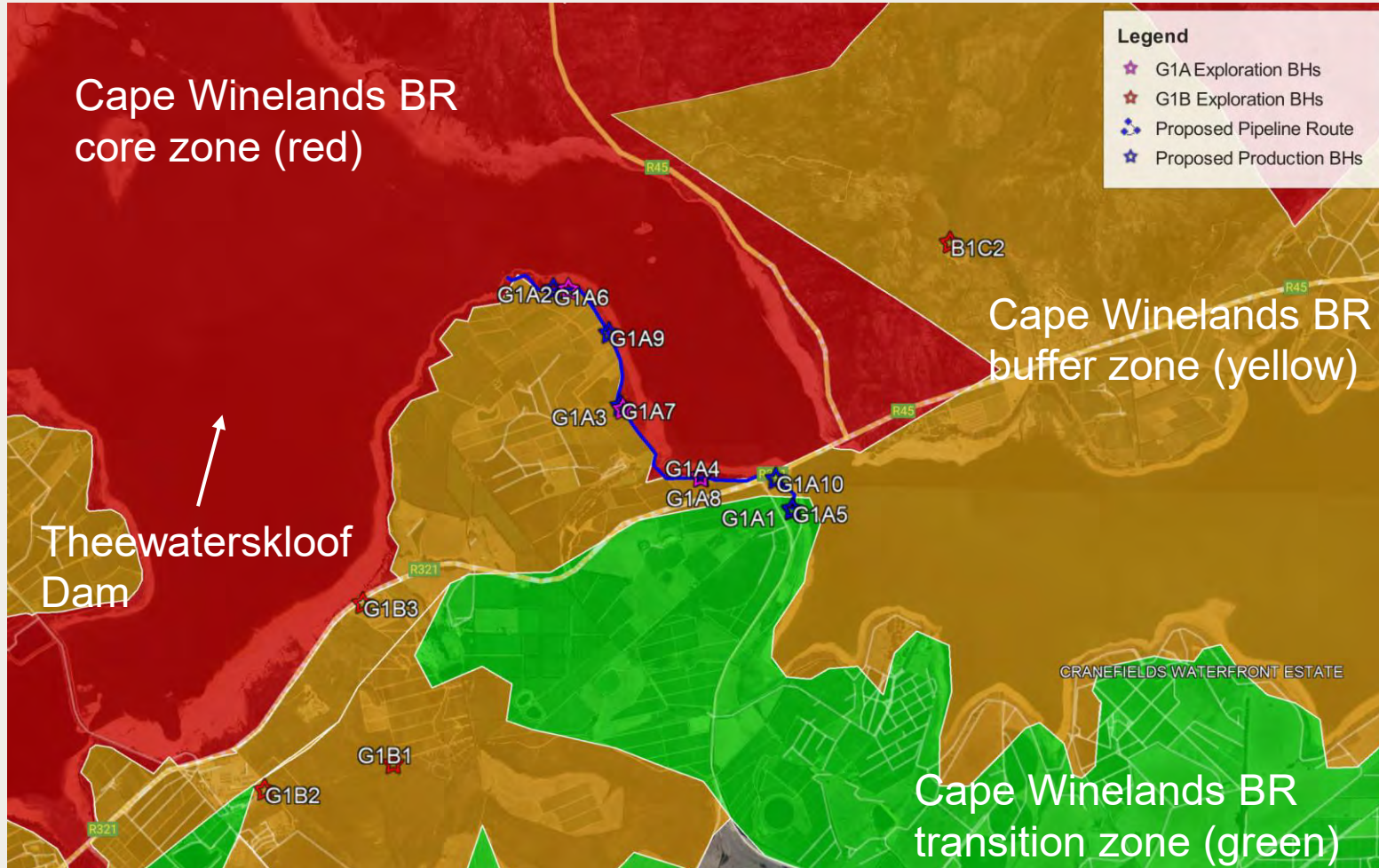


Table Mountain Group Aquifer – Groenlandberg wellfield

Groenlandberg wellfield infr. and biosphere overlap

Cape Winelands Biosphere Reserve

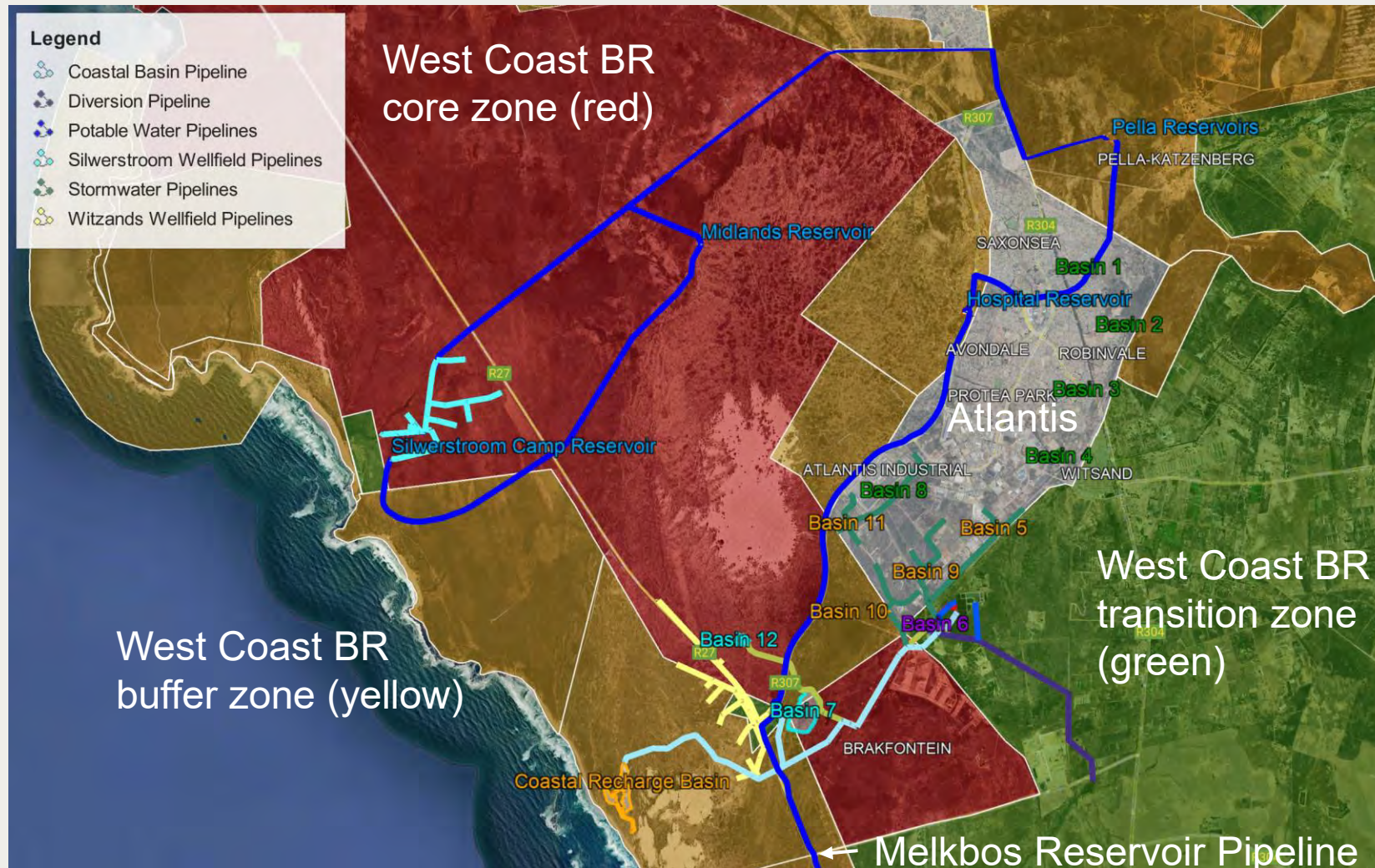


- Specialist Input:

- The majority of the pipeline route abuts wetland habitat, this area is generally degraded with the permanently saturated being the most sensitive to wellfield development. Some areas, although disturbed, have a good potential for recovery and thus their potential should not be compromised. . All these wetlands do however act as a buffer between extensive agriculturally disturbed land and the dam and thus have functional value, even if disturbed. (C Boucher & J Ewart-Smith, Oct 2020)

Atlantis Water Resource Management Scheme (AWRMS)

AWRMS infrastructure and Cape West Coast BR overlap



- Cape West Coast Biosphere Reserve (CWCBR) dataset date = 2001
- AWRMS MMP Application:
 - An agreement between DEA&DP and DFFE also likely required.
 - Submit application with maps indicating the % of the infrastructure within core zone and outside of core zone.

Faure New Water Scheme (FNWS) – Blackheath Pipeline



Inclusion of Blackheath Pipeline under S30A Directive

- Detailed design of Faure New Water Scheme (FNWS) nearing completion.
 - Construction from ~Aug 2025, and first water from ~May 2028.
 - Project team considering alternatives for distributing treated water.
- Blackheath Pipeline Project Brief received by design team on 19 Sept 2019, just before lapsing of State of Emergency (end Sept 2019).
 - Pipeline to distribute water from FNWS to whole Metropolitan area.
- Water Supply Intervention Plan (WSIP) Addendum states treated effluent from Zandvliet WWTWs treated further at Faure WTWs... 'prior to injection into the bulk water system via the WTWs.'
- Blackheath pipeline central to FNWS.
 - Proposing that pipeline be included in broad text of WSIP, and for Quarterly Report be updated to mention Blackheath alternative/s.
 - Avoid need for separate EIA process for component of the FNWS.

ZUTARI
IMPACT. ENGINEERED.

zutari.com

