



UMKHOMAZI WATER PROJECT PHASE 1:



MODULE 2: ENVIRONMENTAL IMPACT ASSESSMENT

PSC MEETING No. 3 - 20 March 2013

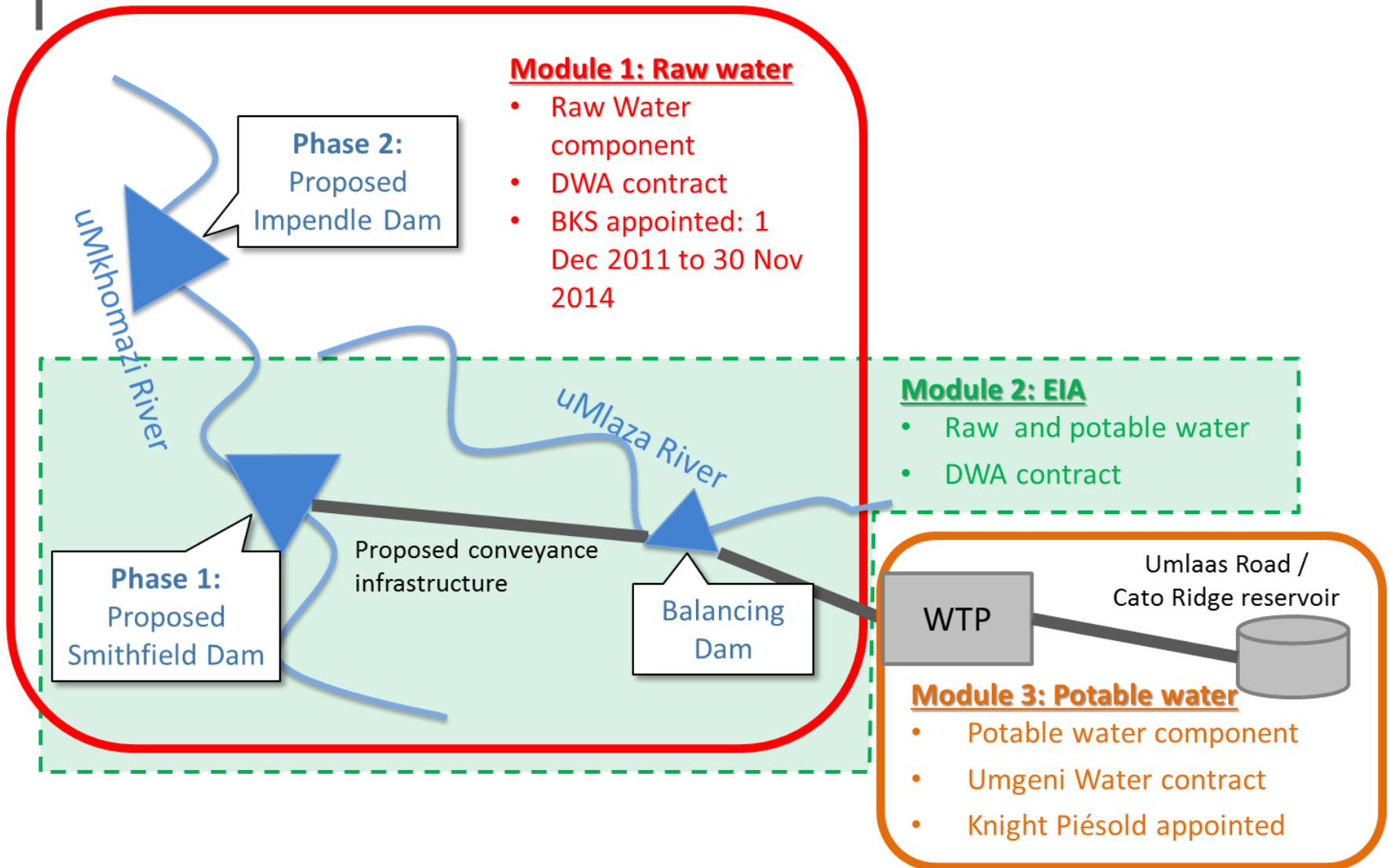


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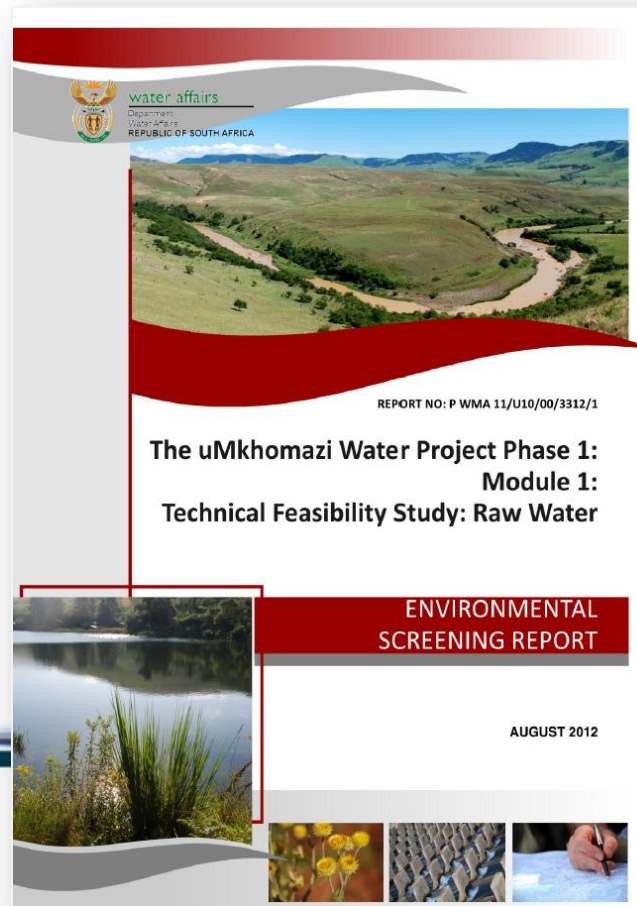


OVERVIEW - MODULE 2: RAW WATER



OVERVIEW - MODULE 2: RAW WATER

- Review the Environmental Screening Report (BKS, 2012)





OVERVIEW - MODULE 2: RAW WATER

- Review the Environmental Screening Report (BKS, 2012)
- Perform a complete EIA -
 - Engage with Stakeholders
 - Prepare a Scoping Report
 - Prepare a Social Impact Assessment Report
 - Prepare an Environmental Impact Report
 - Develop an Environmental Management Programme
 - Obtain Environmental Authorisation

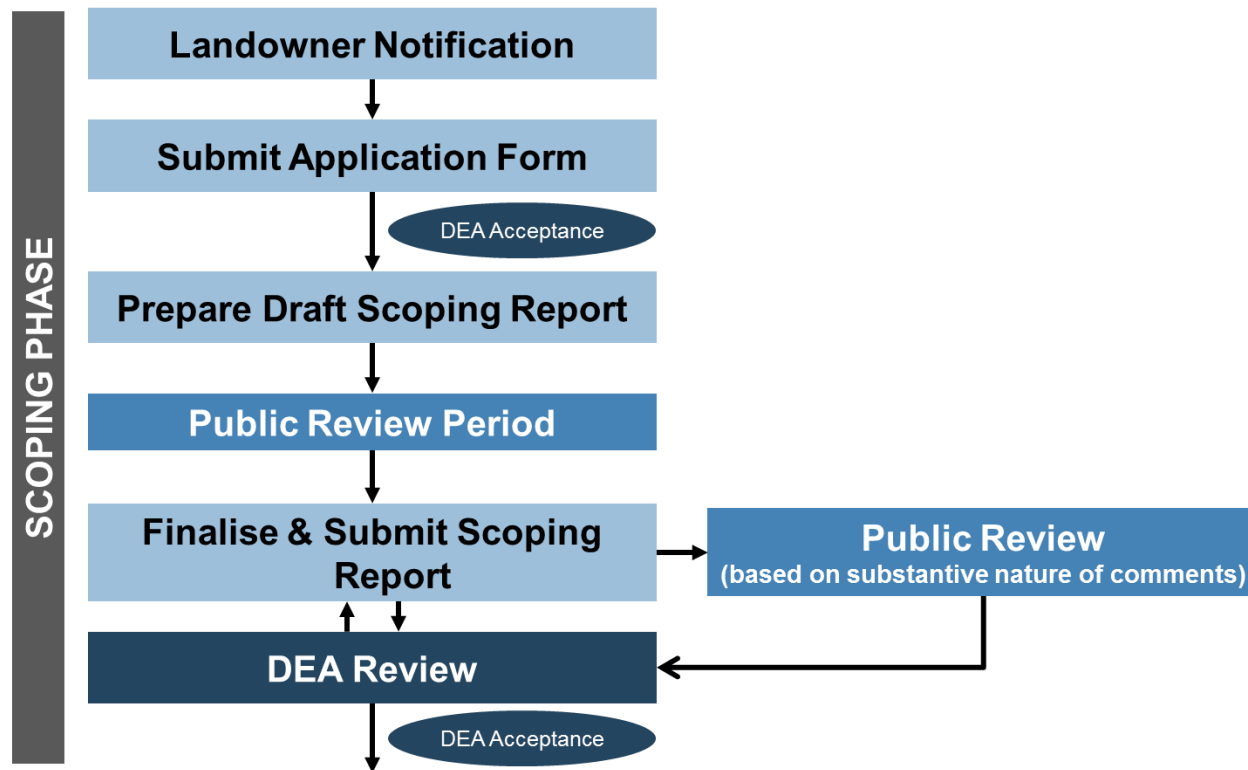


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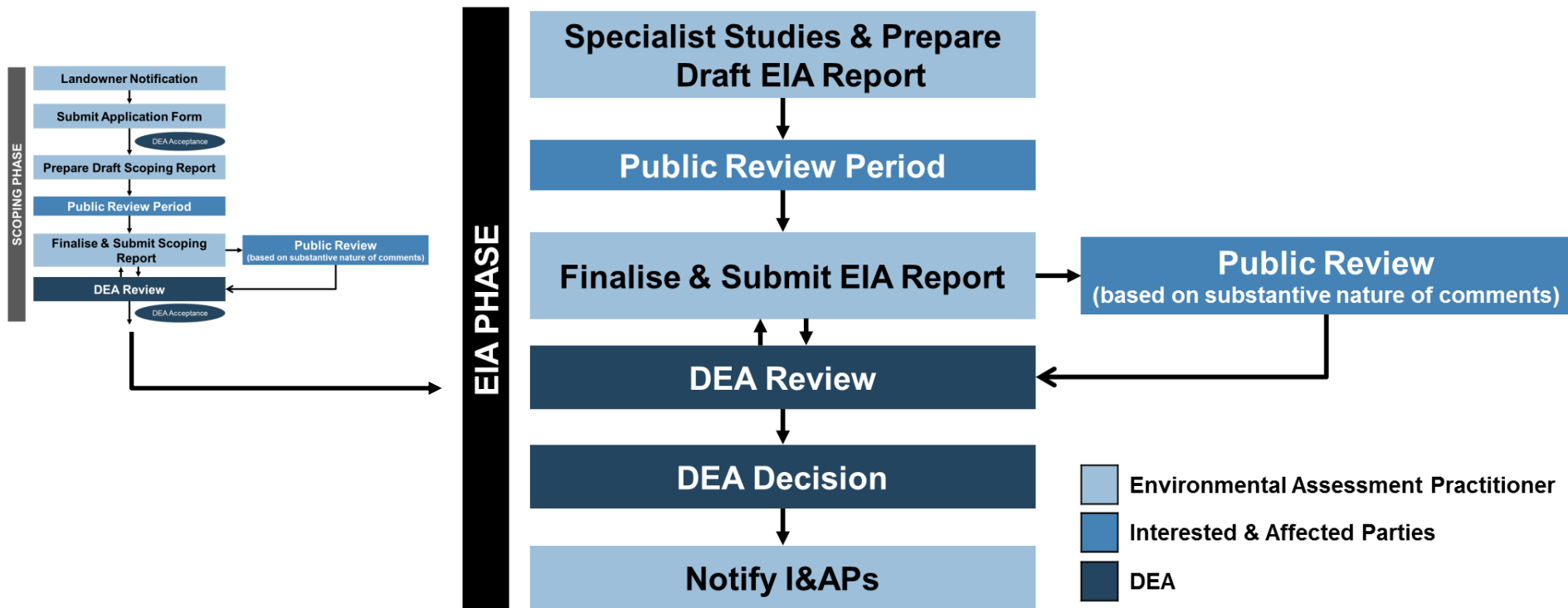
OVERVIEW - MODULE 2: RAW WATER

- Review the Environmental Screening Report (BKS, 2012)
- Perform a complete EIA -



OVERVIEW - MODULE 2: RAW WATER

- Review the Environmental Screening Report (BKS, 2012)
- Perform a complete EIA -





OVERVIEW - MODULE 2: RAW WATER

- Review the Environmental Screening Report (BKS, 2012)
- Perform a complete EIA
- Submit reports to obtain -
 - Water Use Licenses from DWA
 - Borrow pit permits from DMR
 - Heritage approval form Amafa
 - Waste Licence from DEA



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OVERVIEW - MODULE 2: RAW WATER

ID	Task Name	Duration	Start	Finish	Predecessors	2012												2013			2014									
						Qtr 1, 2012		Qtr 2, 2012		Qtr 3, 2012		Qtr 4, 2012		Qtr 1, 2013		Qtr 2, 2013		Qtr 3, 2013		Qtr 4, 2013		Qtr 1, 2014			Qtr 2, 2014			Qtr 3, 2014		
						Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
1	Inception Phase	54 days	Mon 19/11/12	Thu 31/01/13		[Gantt bar]																								
6	EIA	434 days	Fri 01/02/13	Wed 01/10/14		[Gantt bar]																								
7	Notification of Landowners	5 days	Fri 01/02/13	Thu 07/02/13		[Gantt bar]																								
8	Application Form	10 days	Fri 08/02/13	Thu 21/02/13		[Gantt bar]																								
9	DEA Response	11 days	Fri 22/02/13	Fri 08/03/13		[Gantt bar]																								
10	Scoping Report	150 days	Mon 11/03/13	Fri 04/10/13		[Gantt bar]																								
11	Public Participation	28 days	Mon 11/03/13	Wed 17/04/13		[Gantt bar]																								
12	IAP Database	5 days	Mon 11/03/13	Fri 15/03/13		[Gantt bar]																								
13	Project Announcement	23 days	Mon 18/03/13	Wed 17/04/13		[Gantt bar]																								
14	Prepare Draft Report & PbS for EIA	54 days	Mon 11/03/13	Thu 23/05/13		[Gantt bar]																								
15	DWA Review	11 days	Fri 24/05/13	Fri 07/06/13		[Gantt bar]																								
16	Amend Report	5 days	Mon 10/06/13	Fri 14/06/13		[Gantt bar]																								
17	Notification of Review	3 days	Mon 17/06/13	Wed 19/06/13		[Gantt bar]																								
18	IBAPs Review of Draft Report	31 days	Thu 20/06/13	Thu 01/08/13		[Gantt bar]																								
19	Public Meeting	2 days	Fri 05/07/13	Mon 08/07/13	18SS+11 days	[Gantt bar]																								
20	Prepare Final Report	11 days	Fri 02/08/13	Fri 16/08/13		[Gantt bar]																								
21	Submit Final Report to DEA	1 day	Mon 19/08/13	Mon 19/08/13		[Gantt bar]																								
22	DEA Review	34 days	Tue 20/08/13	Fri 04/10/13		[Gantt bar]																								
23	DEA Acknowledgment	11 days	Tue 20/08/13	Tue 03/09/13		[Gantt bar]																								
24	DEA Review & Decision	23 days	Wed 04/09/13	Fri 04/10/13		[Gantt bar]																								
25	Specialist Studies	71 days	Mon 07/10/13	Mon 13/01/14		[Gantt bar]																								
26	Specialist Workshop	1 day	Tue 14/01/14	Tue 14/01/14		[Gantt bar]																								
27	Environmental Impact Report	258 days	Mon 07/10/13	Wed 01/10/14		[Gantt bar]																								
28	Reporting	107 days	Mon 07/10/13	Tue 04/03/14		[Gantt bar]																								
29	Prepare Draft EIA Report	91 days	Mon 07/10/13	Mon 10/02/14		[Gantt bar]																								
30	DWA Review	11 days	Tue 11/02/14	Tue 25/02/14		[Gantt bar]																								
31	Amend Report	5 days	Wed 26/02/14	Tue 04/03/14		[Gantt bar]																								
32	Notification of Review	5 days	Wed 05/03/14	Tue 11/03/14		[Gantt bar]																								
33	IBAPs Review of Draft Report	30 days	Wed 12/03/14	Tue 22/04/14		[Gantt bar]																								
34	Public Meeting	2 days	Thu 27/03/14	Fri 28/03/14	33SS+11 days	[Gantt bar]																								
35	Prepare Final EIA Report	11 days	Wed 23/04/14	Wed 07/05/14		[Gantt bar]																								
36	Notification of IBAPs	3 days	Thu 08/05/14	Mon 12/05/14		[Gantt bar]																								
37	Submit Final Report to DEA	1 day	Tue 13/05/14	Tue 13/05/14		[Gantt bar]																								
38	DEA Review	90 days	Wed 14/05/14	Tue 16/09/14		[Gantt bar]																								
39	DEA Acknowledgment	11 days	Wed 14/05/14	Wed 28/05/14		[Gantt bar]																								
40	DEA Accept Report	44 days	Thu 29/05/14	Tue 29/07/14		[Gantt bar]																								
41	DEA Decision	35 days	Wed 30/07/14	Tue 16/09/14		[Gantt bar]																								
42	IBAP Notification Period	11 days	Wed 17/09/14	Wed 01/10/14		[Gantt bar]																								
43	Borrow Pit Authorisation	220 days	Mon 07/10/13	Fri 08/08/14		[Gantt bar]																								



PROGRESS

- Inception meeting - 19 Nov 2012
- Site visit - 10 Dec 2012
- DEA Pre-application Consultation Meeting - 21 Jan 2013
- GIS data, maps and reports from AECOM - 04 Feb 2013
- Environmental Authorities Meeting - 14 Feb 2013
- DEA integrated process meeting - 15 Mar 2013



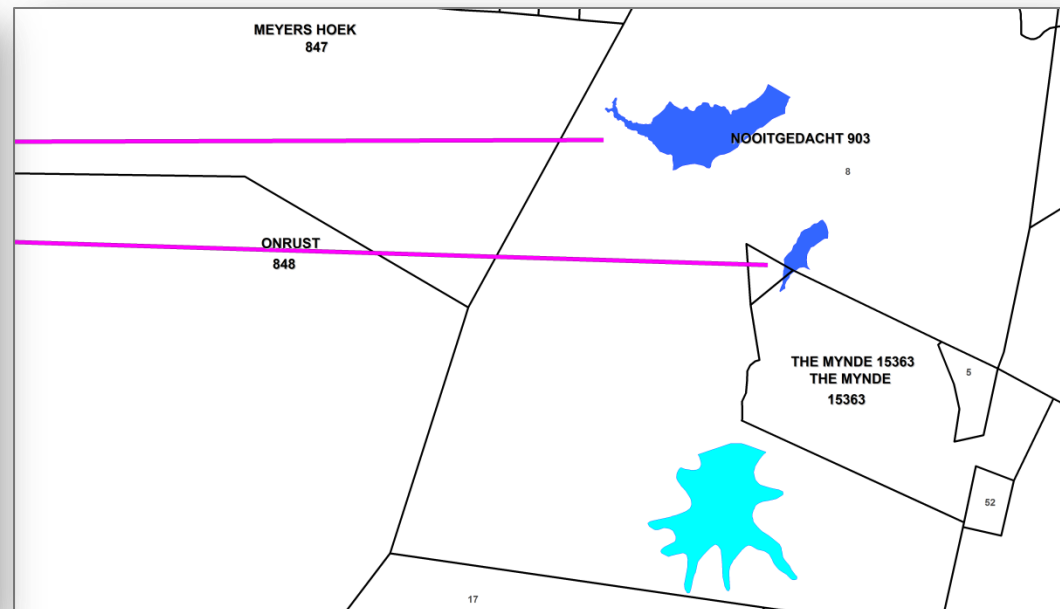
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KEY FINDINGS

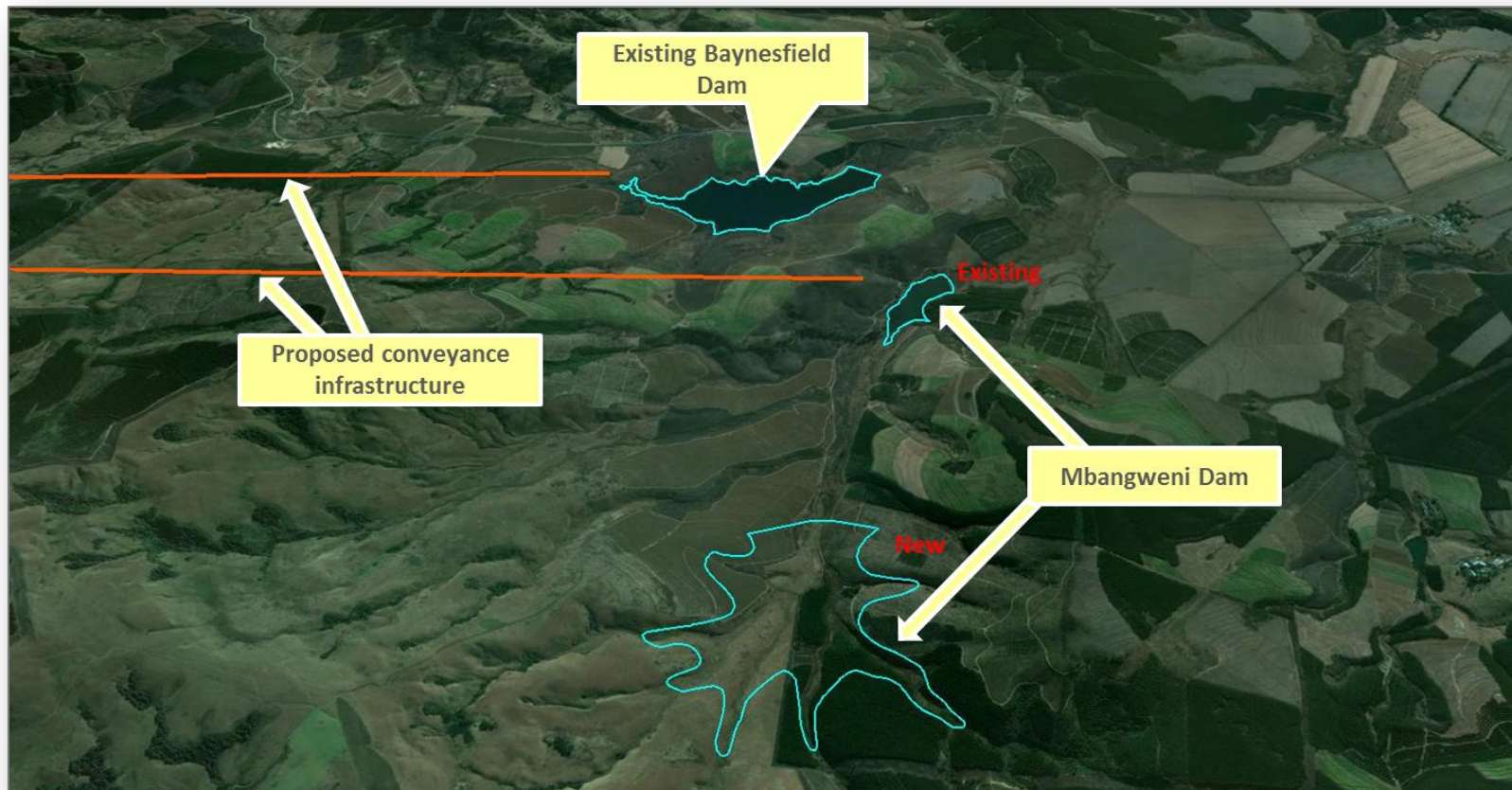
➤ Landowner Notification -

- Deed Search – contact details
- Linear components (conveyance system and pipeline to WTW)



KEY FINDINGS

- Landowner Notification
- Feasible Alternatives





KEY FINDINGS

- Landowner Notification
- Feasible Alternatives
- NEM:WA Waste Management Licence -
 - Hazardous waste – DEA
 - General waste – KZN DAEA

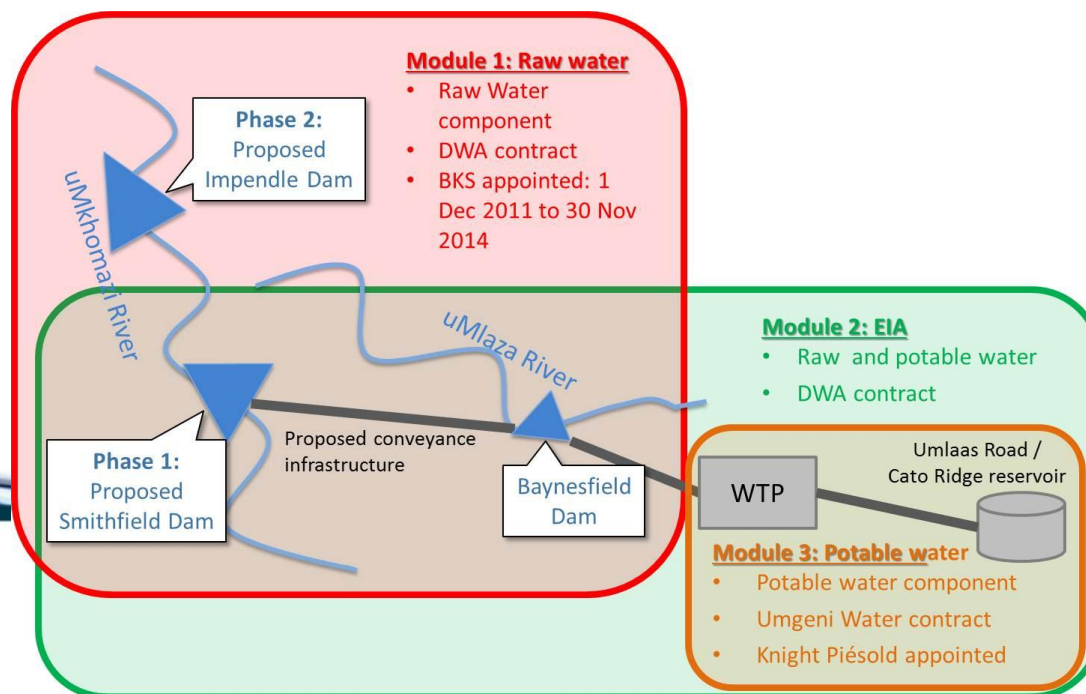


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KEY FINDINGS

- Landowner Notification
- Feasible Alternatives
- NEM:WA Waste Management Licence
- Combined Application – Raw Water & Potable Water



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KEY FINDINGS

- Landowner Notification
- Feasible Alternatives
- NEM:WA Waste Management Licence
- Combined Application – Raw Water & Potable Water
- **Impacts associated with tunnel - geotechnical conditions (e.g. faults, dykes, aquifers)**



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Thank you

