

PROJECT: CLASSIFICATION OF SIGNIFICANT WATER RESOURCES IN THE OLIFANTS/DOORN WATER M

Comments and responses register sorted according to Surname of stakeholder who asked questions or n

	Surname	Name	Affiliation	Date of comments	Topic	Comments / Questions
1	Booyesen	Mr Nicolaas		06 October 2011 Public meeting 2	Data groundwater	Question: The extraction of groundwater: How accurate is the data?
2	Booyesen	Mr NICOLAAS		06 October 2011 Public meeting 2	Water use	Comment: We don't have access to the borehole only the factory does; the small farmers don't have access.
3	Burger	Mr Johan	Cape Nature	14 June 2011 Public meeting 1	Alien vegetation	Isn't it if you increase your aliens you will get a good flow within the system? Surely the aim would be to increase the water to be a better management system, so that we'll still have water. We're a class D we're aiming for a class B. It's important for the rivers to be kept clean. By removing the excess there will be multiple benefits. Why didn't DWA choose the Olifants/Doorn to manage the system and to involve other organisations to do this.
4	Burger	Mr Johan	Cape Nature	14 June 2011 Public meeting 1	Scale of study	Tributaries have different fish species. There is a need to have a look at this on a finer scale.
5	Cloete	Mr Derick	Cederberg Municipality	14 June 2011 Public meeting 1	Water use efficiency	Here is a canal in the area, and that water is just being wasted. What can we do to make use of this?
6	Cloete	Mr Derrick		14 June 2011 Public meeting 1	Vegetation and water use	The reeds seem to be ever increasing in water courses, especially in Velorenvlei. This is consuming a lot of precious water and negatively impacting the water resources and ecosystems. (Further queries were documented and submitted).
7	Cloete	Mr Derrick		06 October 2011 Public meeting 2	Water use	Comment: There is a high increase in water abstraction from groundwater.

8	Derick	Mr D	Cederberg Munisipaliteit	14 June 2011 Public meeting 1	Types of resources	Kyk julle net na standhoudende riviere of droë lope ook? Boer maak damme in die droë lope en dit beperk dan die hoeveelheid water wat in standhoudende riviere beland. Die gevolg hiervan is dat dit druk plaas op die Munisipaliteit om pype aan te lê.
9	Driver	Ms Mandy	SANBI	17 May 2011 PSC meeting 1	Biodiversity	Dr Mandy Driver indicated that FEPA's are the result of a national process to identify freshwater biodiversity protection priorities throughout the country and the DWA have been part of this project.
10	Du Toit	Mr Sakkie	Koue Bokkeveld	06 October 2011 Public meeting 2	Data	Question: Are you comfortable with the data available?
11	Du Toit	Mr Sakkie	Koue Bokkeveld	06 October 2011 Public meeting 2	Data	Question: According to the assumptions made, what if the data is not correct?
12	Du Toit	Mr Sakkie	Kouebokkeveld WUA	14 June 2011 Public meeting 1	Data and historic studies	What data do we use? There's a study that was done 2 years ago.

13	Du Toit	Mr Sakkie		014 June 2011 Public meeting 1	Groundwater recharge	Koue-Bokkeveld – can we determine the amount of recharge in the Koue-Bokkeveld that contributes to the groundwater resources in the Sandveld. To supplement the surface water resources in the Koue-Bokkeveld, DWA have encouraged them to make use of groundwater, however the concern is that this groundwater is the recharge for aquifer systems further down-gradient and to the north-west (i.e.Sandveld). Will it be problematic to use this groundwater. When there is snow in the Koue-Bokkeveld the melt water forms important recharge which reaches the Sandveld in about 3 years.
14	Du Toit	Mr Sakkie	Koue Bokkeveld	24 Jan 2012 PSC meeting 3	Hydrology	During the drought of 2003 the lost to the economic activity was easily 25% as a result of the lack of water availability.
15	Du Toit	Mr Sakkie	Koue Bokkeveld	06 October 2011 Public meeting 2	Hydrology model	Question: Do you have a model to show how the flows into one another.
16	Du Toit	Mr Sakkie	KBV WUA	14 June 2011 Public meeting 1	Water quality	Sluit ekologie die kwaliteit van water in? Het julle al oplossings vir dreineerstelsels in landbou?
17	Du Toit	Mr Sakkie	Koue Bokkeveld	24 Jan 2012 PSC meeting 3	Water use	It is not equitable that the Doring river must subsidise the use of the Olifants. For a number of years now the users in the Koue Bokkeveld have been restricted in terms of possible additional water use as a result of this situation. Mr du Toit required clarity?
18	Du Toit	Mr Sakkie	Koue Bokkeveld	24 Jan 2012 PSC meeting 3	Water use	The agricultural users are prepared to use less in the summer if they are allowed to abstract during the winter. This is a reality that they accept and will work towards this goal if DWA will provide authorization.

19	Du Toit	Mr Sakkie		014 February 2012 Public meeting 3	Data	Question: Requested that the data for E21H and E21G be explained.
20	Engelbrecht	Mr Joost	Sandveld	06 October 2011 Public meeting 2	Study results	Question: How do we access information regarding this study?
21	Engelbrecht	Mr Joost	Sandveld	06 October 2011 Public meeting 2	Verlorenvlei estuary	Question: Wants to know about the implications of the study on Verlorenvlei Vlei.
22	Engelbrecht	Mr Joost	Sandveld	06 October 2011 Public meeting 2	Water use and land use restrictions	Question: We need to address the issues where the water is used. We have asked the Department for land to be made available, SANBI set the guidelines but do not attend these meetings.
23	Engelbrecht	Mr Joost		014 February 2012 Public meeting 3	Data	Question: The DWA should add explanation for the Ecological categories A, B, C and D and class I, ii and iii into all documents.
24	Engelbrecht	Ms Susi	Sandveld	06 October 2011 Public meeting 2	Borehole water use	Comment: The matter was forwarded to DWA, but it is the responsibility of the Municipality to resolve this matter (with reference to the borehole)
25	Engelbrecht	Ms Susi	Sandveld	06 October 2011 Public meeting 2	Farming equipment	Comment: The equipment that was made available to the WUA's is with me, it is in good working condition. The challenges are logistics and costs to implement.
26	Engelbrecht	Ms Susie Engelbrecht		014 February 2012 Public meeting 3	Institutions	Ms Susie Engelbrecht requested that the Municipality be included in these discussions.

27	Engelbrecht	Ms Suzi	(Sandveld WUA)	14 June 2011 Public meeting 1	Classes and classification	Can it be that the F class can exist? And what is the big problem?
28	Engelbrecht	Ms Suzie	Sandveld WUA	14 June 2011 Public meeting 1	Ranking of social, economic and ecological	If all aspects (social, economic, etc) are important, how are they ranked?
29	Gabriel	Ms MJM	Department Agriculture National	17 May 2011 PSC meeting 1	Water law	Ms. MJM Gabriel informed the meeting that the Spatial and Land Use Bill is out for comments and encouraged members of the PSC to make comments.
30	Geldenhuis	Mr Ockie		0 14 June 2011 Public meeting 1	Groundwater	Are there any good aquifers in the area?
31	Geldenhuis	Mr Ockie		0 14 June 2011 Public meeting 1	Monitoring	Are there enough boreholes being monitored in the WMA for this study.
32	Geldenhuis	Mr Ockie	NORMAT Farms	14 June 2011 Public meeting 1	Water use scenarios	Are there any scenarios that have already being determined in the past ? If we can withdraw those scenarios, then we can see what the risks are

33	Gouws	Ms Jeanne	CapeNature	06 September 2011 PSC meeting 2	Ecology	Fish kills occur from time to time below the dam, wil this be prevented when he dam is raised ?
34	Grobler	Mr Dana	Blue Science project team	24 Jan 2012 PSC meeting 3	Economic	Mr Grobler required clarity on the acronyms used in the economic presentation: IRR and NPV.
35	Grobler	Mr Dana	Blue Science project team	24 Jan 2012 PSC meeting 3	Regulations	Requested clarity from the DWA in terms of the regulatory mechanisms and the interface between the class legal template and RQOs and implementation.
36	Hanekom	Mr Hanekom		0 14 February 2012 Public meeting 3	Water use	Statement: If you get land then you need water. That is the starting point.
37	Hanekom	Mr Louis		0 14 February 2012 Public meeting 3	Water use	Comment: During the past years many users have started to use groundwater and this is possibly using the same resource as the river water as all the resource is connected.
38	Hanekom	Mr Louis		0 14 February 2012 Public meeting 3	Cooperative governance	Question and Statement: They must pay in the order of R50 000 – R60 000 for an EIA determination to enable them to get permission for a small dam. They the need to construct this dam within 6 months otherwise the permission lapse. In the meanwhile the various department works in isolation and a water license takes 3 years to get approval from DWA.
39	Hanekom	Mr Louis (Senior)		0 14 February 2012 Public meeting 3	Data	Question: What data was used for the calculations of the summary tables?

40	Horn	Ms Salome		06 October 2011 Public meeting 2	Monitoring	Question: We were trained by DWA to measure water the usage of the farmers – the project was never implemented after the training. We are small farmers are suffering with the high rate charged by the municipalities, can't we be assisted?
41	Horn	Ms Salome		06 October 2011 Public meeting 2	Monitoring	The DWA installed a satellite, it was launched quite a while back to monitor the water usage, and so can I assume that the training we received will not be implemented?
42	Impson	Mr Dean	CapeNature	17 May 2011 PSC meeting 1	Biodiversity	Mr. Dean Impson: How is the Freshwater Ecosystem Priority Area's (FEPA) being addressed in the project? He indicated that the classification of the water resources should incorporate the FEPA's.
43	Impson	Mr Dean	CapeNature	24 Jan 2012 PSC meeting 3	Biodiversity	Mr Impson requested a meeting with the project team to discuss the FEPA and incorporation into the classification. Ms Naidoo recommend that time must be set aside on 08 February after the PMC meeting to meet with whoever would like to meet with the project team to discuss technical issues.
44	Impson	Mr Dean	CapeNature	24 Jan 2012 PSC meeting 3	Ecology	Mr Impson made the comment that we must be careful not to overemphasize the estuary as tributaries in the catchment are as important for biodiversity and sustainable protection of the resources.
45	Impson	Mr Dean	CapeNature	24 Jan 2012 PSC meeting 3	Hydrology	Mr Impson required clarity on the yield calculations as Mr Grobler indicated that no more run of river yields is available.

46	Impson	Mr Dean	CapeNature	17 May 2011 PSC meeting 1	Institutional arrangements	Mr. Dean Impson requested that joint decision-making should take place and that decisions should not be taken without involving CapeNature.
47	Impson	Mr Dean	CapeNature	17 May 2011 PSC meeting 1	Re - classification	Mr. Dean Impson: How will changes in the classified status of water resources be dealt with in the future?
48	Impson	Mr Dean		0 24 Jan 2012 PSC meeting 3	Water use efficiency	Did the project team considered the efficient use of water and the effect on reducing use ?
49	Impson	Mr Dean	CapeNature	24 Jan 2012 PSC meeting 3	Water use impacts	Mr Impson stated that the Olifants-Doring River System is the most important in the country for freshwater fish conservation due to the large number of endemic fishes, many of which are threatened. One of the key threats, is the large number of perennial tributaries that are pumped dry in summer. This is specifically in places where weirs have been built and downstream from the weir the river is often completely dry in summer. It is essential that the naturally low flows in summer be maintained, as this is when fishes, many of which are highly threatened are breeding. In most cases, it is the agricultural use that is responsible for this situation.
51	Jantjies	Mr Andreas	Vanrhynsdorp Emerging Farmers	14 June 2011 Public meeting 1	Re-use	He says that they must use borehole water and waste water, but it's not yet suitable for farming yet.

52	Jantjies	Mr Jantjies		014 June 2011 Public meeting 1	Groundwater use	Van Rhynsdorp – Brian Dayson (DWA) says water quality is poor, the borehole is unregistered and the yield is low. What is the next step? Mr Jantjies wants to drill another borehole – how does he go about this?
53	Johnson	Mr Reginald		06 September 2011 PSC meeting 2	Hydrology and water availability	It is not clear through the presentation if there is water available, the information need to be simplified.
54	Keuck	Mr Peter	Dept of Agriculture	06 September 2011 PSC meeting 2	Classification scenarios	Question: When and how will the Socio & Economic scenarios be incorporated into the decision making
55	Keuck	Mr Peter	Dept of Agriculture	06 October 2011 Public meeting 2	Consequences of classes	Comment: It is important for the Stakeholders to be informed about the practical implications.
56	Keuck	Mr Peter	Dept of Agriculture	06 September 2011 PSC meeting 2	Stakeholder	Question: Do you want the stakeholders to decide on a scenario's?
57	Kleynhans	Prof Theo	Project team	24 Jan 2012 PSC meeting 3	Economic	Prof Kleynhans indicated that the classification guidelines is not helpful in terms of quantifying the economic value of various elements that are listed: e.g. the calculation of medical costs for deteriorating water quality etc.
58	Klopper	Ms Wilna	DWA Regional	24 Jan 2012 PSC meeting 3	Estuaries	Will it be possible to predict the estuarine condition given the scenarios

59	Kloppers	Ms Wilna	DWA	06 September 2011 PSC meeting 2	Estuaries	Focus on the estuaries that are in a good state
60	Kloppers	Ms Wilna	DWA Regional	24 Jan 2012 PSC meeting 3	Resource Quality Objectives	Ms Wilna Kloppers would like to know what will be the scale of the RQO's.
61	Kloppers	Wilna	DWA WC Region	06 September 2011 PSC meeting 2	FEPA	Most of the FEPAS are located in the fresh water fish areas.
62	Kloppers	Wilna	DWA WC Region	06 September 2011 PSC meeting 2	Scale	Comment: The difficulty is the scale. We need to be more practical.
63	Kreuck	Mr Peter	Department Agriculture WC	17 May 2011 PSC meeting 1	Water use	Mr. Peter Kreuck: Is there a risk that current water use activities will be impacted on and, if so, how will it be dealt with?
64	Lane	Mr Patrick		14 June 2011 Public meeting 1	Scale of study	Are you looking at each tributary individually?
65	Lane	Mr Patrick	Cape Nature	14 June 2011 Public meeting 1	Water availability and use	It is predicted that by 2015 there will be a water crisis (scarcity) in the coastal areas. Is this likely to happen?

66	Lange	Mr Headman		014 February 2012 Public meeting 3	Water allocation and use	Statement and question: Emerging farmers do have a piece of land without any water. But people next door have water. He suggests that some water should be given to them. In the Lutzville area they want property there. An example of where dams are situated on a piece of land but they cannot use the water but the next door users are using the water and they are restricted to use the water. This water use is possibly illegal.
67	Lategan	Mr Len	Lamberts Bay	14 June 2011 Public meeting 1	Clanwilliam Dam raising	He wants clarity regarding the raising of the Clanwilliam Dam
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69	Lategan	Mr Len		014 June 2011 Public meeting 1	Water use	Lutzville - Wants to know if they can use groundwater to irrigate 5 ha, instead of the canal water.
70	Lategan	Mr Len	Lutzville Emerging Farmers	14 June 2011 Public meeting 1	Water use (increase use)	Why can't we take more water so that we can use more?
71	Liebetrau	Mr Hennie	Liebetrau Boerdery	14 June 2011 Public meeting 1	Classes and ecological variability	Will the classes not change from the one year to the next?
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73	Louw	Mr Johan	LORWUA	14 June 2011 Public meeting 1	Clanwilliam dam	We pay 100% of the allocated (scheduled) water but we only get 60% of the allocation. The dam must be increased and the water must be made available to the farmers. In the Vredendal area there's a monthly average of 20%, we have used our own money to do these things ourselves, but we're still waiting for DWA to help us economically.
74	Louw	Mr Johan		0 17 May 2011 PSC meeting 1	Existing lawful use	Mr. Johan Louw wanted to know if the current riparian use would be affected by the classification process and outcome.
75	Maarman	Mr Bruce	Matzikama Forum	14 June 2011 Public meeting 1	Dam and water use	Bestaan daar monitoring rakende die bou van damme?
76	Maarman	Mr Bruce	Convenor of Matzikama Emerging Farmers	14 June 2011 Public meeting 1	Institutional organisations	He emphasised the imbalances of water resources to emerging and commercial farmers and must be addressed. Also mentioned the lack of participation and absence of municipality or IDP officials.
77	Manamela	Mr Sadimo	DWA RDM	24 Jan 2012 PSC meeting 3	Agriculture	Mr Manamela required clarity on the rotation of crops and food security and its relation to classification?

78	Manemela	Mr Sadimo	DWA	14 June 2011 Public meeting 1	Water abstraction and lawfulness	We do not calculate the real cost of that area. What if you're taking more water than what you're suppose too, and it's reported to DWA, what then? If the source of the problem is at an outside area, what do you do then?
79	Matthee	Mr Johan	Chairperson of LORWUA	14 June 2011 Public meeting 1	Clanwilliam Dam raising	The raising of the Clanwilliam Dam is a necessity to make more water available. All parties should liaise with one another to see how problems can be successfully addressed.
80	Matthee	Mr Johan	LORWUA	14 June 2011 Public meeting 1	Water use enforcement	Currently, the problem is still there, with the Classification, it's just going to take longer. We want to see more policing. Who is solely responsible?
81	Meintjies	Ms Elsabe	Farming equipment	06 October 2011 Public meeting 2	Borehole water use	Question: We had a borehole, but the pump was taken away by the municipality, we now using household water which is very expensive.
82	Meintjies	Ms Elsabe		14 June 2011 Public meeting 1	Institutional arrangements	Van Rhynsdorp – The municipality removed the pump and now they cannot continue.
83	Meintjies	Ms Elsabe	Van Rhynsdorp	14 June 2011 Public meeting 1	Water prices	She mentioned that emerging farmers with 1 acre of land use the 500 litre water tanks – provided by the municipality for the past 3 years – with a rate of R6.80 per cubic litre. The municipality rates for water are not affordable and they should look at alternative water resources.
84	Meintjies	Ms Elsabe	Van Rhynsdorp	14 June 2011 Public meeting 1	Water prices	She mentioned that emerging farmers with 1 acre of land use the 500 litre water tanks – provided by the municipality for the past 3 years – with a rate of R6.80 per cubic litre. The municipality rates for water are not affordable and they should look at alternative water resources.

85	Meintjies	Ms Elsabe	Lamatsikhe Groente Projek - Kleinboere	14 June 2011 Public meeting 1	Water quality and economy	We use processed water from the municipal. Is it possible to mix the water? If you mix the water; you save the water independently. Won't this save us economically? There is a bore-hole but we can't use it because it's too salty. In the Vredendal area there's a monthly average of 20%, we have used our own money to do these things ourselves, but we're still waiting for DWA to help us economically.
86	Motebe	Ms Nancy	DWA RDM	06 October 2011 Public meeting 2	Hydrology	Question: Please explain the terms incremental and cumulative briefly.
87	Mouton	Mr Boet	Citrusdal	06 October 2011 Public meeting 2	Implications of study	Question: What's the way forward?
88	Mr DEAT person	Mr DEAT person		0 14 February 2012 Public meeting 3	Cooperative governance	Question: What will other government departments do about the comments and commenting period on the documents?

89	Mr Theuns	0	0	24 Jan 2012 PSC meeting 3	Water use	Mr Theuns made the point that below the Clanwilliam dam irrigation users can cost effectively use the water as they don't need to pump the water as it is supplied via a gravity fed system. Smaller dams should be more easily approved if they commit to the use and storage of winter water. The gravity fed systems will save a lot of electricity and can in some cases be very restrictive in terms of what can be developed. The agricultural sector in the Koue Bokkeveld does not have a big subsidized dam similar to Clanwilliam and should be allowed to use more winter water.
90	Municipal Representative	0	0	24 Jan 2012 PSC meeting 3	Water use emerging farmers	Is provision made for emerging farmers water use requirements ?
91	Naidoo	Ms Shane	DWA RDM	24 Jan 2012 PSC meeting 3	Regulatory	Reserve templates: The preliminary Reserve determinations and templates will be replaced by the updated templates. The sequence of the process to be determined and decisions needs to be taken if the class template will also include the Reserve template.
92	Naidoo	Ms Shane	DWA RDM	24 Jan 2012 PSC meeting 3	Data	The data supplied must provide sufficient information that it can be included.
93	Naidoo	Ms Shane	DWA National	17 May 2011 PSC meeting 1	Management of the project and its outcome.	Ms Shane Naidoo provided information on the role and responsibility of the Project Steering Committee.
94	Naidoo	Ms Shane	DWA	14 June 2011 Public meeting 1	Water use and allocation	0

95	Naidoo	Ms Shane	DWA	14 June 2011 Public meeting 1	Water use and allocation	0
96	Naidoo	Ms Shane	DWA	14 June 2011 Public meeting 1	Water use and allocation	0
97	Nel	Ms Jean	CSIR	06 September 2011 PSC meeting 2	Operational plans	The raising of Clanwilliam Dam might impact on the fresh water fish population downstream, is any operational management plans in place to prevent the impacts on fish and the ecosystems ?
98	Nyamande	Ms Tovho	0	14 February 2012 Public meeting 3	Ms Tovho Nyamande	Statement: A summary document will be produced and will also be translated into Afrikaans.
99	Pashkins	Ms Jenny	DWA National	17 May 2011 PSC meeting 1	Monitoring	Ms Jenny Pashkins requested clarity on how the classes will be monitored?
100	Paxton	Mr Bruce	Private	06 September 2011 PSC meeting 2	Ecology	The Reserve determination indicated that, due to the degraded flow and physical habitat conditions in the mainstream of the Olifants River, together with the high demand for water in this region, that this river be developed to its maximum potential, with the agreement that there would be no further development on the Doring River mainstream
101	Paxton	Mr Bruce	Private	24 Jan 2012 PSC meeting 3	Ecology	The limitations that were placed on the Doring river related to no big dam or major weir to be constructed in the Doring river mainstream, and it is not referring to any more use or major restrictions in the upper parts of the Doring.

102	Potgieter (Agricultural and Fisheries)	Mr Johan		014 February 2012 Public meeting 3	Management of resources	Question: when will these classes will be set and when will management need to give effect to these classes. Crops needs to be cultivated and decisions needs to be taken for allowable activities.
103	Rwexwana	Ms Cylda		014 June 2011 Public meeting 1	Groundwater use	Elands Bay – piggery. The borehole is damaged (has stones in it) and R40k was paid to a contractor to solve this. It was not solved and the borehole is not operational.
104	Rwexwana	Ms Cylda	Lukhanyo Agri Project – Elands Bay	14 June 2011 Public meeting 1	Jobs and water reduction	She mentioned that the shortage of water impact on job opportunities which currently contribute to job losses and seasonal work.
105	Rwexwana	Ms Cylda		014 June 2011 Public meeting 1	Water distribution and additional use	We depend on the Clanwilliam dam to support emerging and commercial farmers. We have already proposed that water be pumped from the Dam to the Jakkalsriver.
106	Rwexwana	Ms Cylda		014 June 2011 Public meeting 1	Water distribution and additional use	We depend on the Clanwilliam dam to support emerging and commercial farmers. We have already proposed that water be pumped from the Dam to the Jakkalsriver.
107	September	Mr Jan		014 June 2011 Public meeting 1	Water quality and contamination	Mag riooldamme naby aan 'n rivier wees en daarin afloop?
108	September	Ms Lena		006 October 2011 Public meeting 2	Water use domestic	Question: How will the classification affect us in Lamberts Bay? We already experiencing water scarcity and there is a project on the way to desalinate sea water

109	Smit	Mr Adri	Groot Patrysvlei Boere	14 June 2011 Public meeting 1	Class implications	The region is good. How do we access information, are we going to get the right information and how are we going to obtain the information? How long will it take for the classification process? The quicker I know what class I am in, the quicker I can get to know what I must do regarding this process.
110	Smit	Mr Cobus		17 May 2011 PSC meeting 1	Clanwilliam dam	Mr. Cobus Smit requested clarity on the raising of the Clanwilliam Dam and asked how this was taken into consideration.
111	Smit	Mr Jacobus	Kromantonies WUA	14 June 2011 Public meeting 1	Hydrology	Is there going to be a way of how you are going to take note of all 58 points?

112	Steenkamp	Mr Patrick	0	06 October 2011 Public meeting 2	Climate change	Question: Are we going to base our decisions on other factors such as climate change?
113	Steenkamp	Mr Patrick	Loeriesfontein, Opkomende Boere	14 June 2011 Public meeting 1	Communication and implications of classification	Hy spreek sy kommer uit oor al die gesprekke en prosesse en die feit dat DWA dan nie gou genoeg en op gereelde basis terugvoering gee nie. Rolspelers word dan in die duister gelaat.
114	Steenkamp	Mr Patrick	0	14 June 2011 Public meeting 1	Groundwater recharge and surface water links	If groundwater does not support any surface water systems and when there is no linkage to surface waterwhat must be done about the groundwater?
115	Steenkamp	Mr Patrick	0	06 October 2011 Public meeting 2	Groundwater use	Comment: In the Loeriesfontein area, we are dependent on groundwater for household use.
116	Steenkamp	Mr Patrick	Loeriesfontein BV	14 June 2011 Public meeting 1	Institutional organisations and responsibilities	The main reason is to identify WUA organisations to manage the system and for users to adapt to this process.
117	Steenkamp	Mr Patrick	0	14 February 2012 Public meeting 3	CMA establishment	Question: We have heard that today is the last public meeting for comments and then it will be given to the Minister. My concern is the management plan. We have discussed establishing a management body in Clanwilliam, and have established an advisory body. This process came to an end. If we talk about a management plan who will look after this? Who will maintain all of this?
118	Stone	Mr Gerard	0	06 October 2011 Public meeting 2	Emerging farmers	Comment: The small farmers do have access to the borehole but they are not using it.

119	Stone	Mr Gerard	Clanwilliam WUA	14 June 2011 Public meeting 1	Farming practises	He wants to know what type of farming can be utilized on a small scale to empower people.
120	Stone	Mr Gerard	Clanwilliam WUA	14 June 2011 Public meeting 1	Farming practises	He wants to know what type of farming can be utilized on a small scale to empower people.
121	Stone	Mr Gerard	Clanwilliam WUA	14 June 2011 Public meeting 1	Water quality	Whatever you put in the water, from waste water facilities will it either deteriorate the water. How is classification going to deal with this ?
122	Stone	Mr Gerhard	Clanwilliam WUA	14 June 2011 Public meeting 1	Class of rivers	What is the classification below the Clanwilliam Dam?
123	Strange	Ms Felicity		0 14 February 2012 Public meeting 3	Process of decision making	Question: Requested that the process be slowly explained to allow her and others to get a proper understanding of how the process unfolds.
124	Strange	Ms Felicity		0 14 February 2012 Public meeting 3	Catchment	Question: Requested clarity on the relationship between the catchments in the G30 area. (G30D and G30E).
125	Taylor	Mr Nick		0 14 February 2012 Public meeting 3	Ecology	Question: Is the ecological not the most important as it forms the basis of everything else.
126	Unknown	0	0	0 14 June 2011 Public meeting 1	Groundwater monitoring	How is the yield of an aquifer tested?
127	Unknown	0	0	0 14 June 2011 Public meeting 1	Water use licensing	What procedure must be followed for Schedule One groundwater use?

128	Van Heerden	Mr Francois	DWA Clanwilliam	06 September 2011 PSC meeting 2	Comment: F v Heerden DWA	The study must provide sufficient information for stakeholders and specifically the WUA's to make informed decisions and understand that the underlying principle is to ensure sustainability.
129	Van Heerden	Mr Francois	DWA Clanwilliam	06 September 2011 PSC meeting 2	Data	Do we have enough information to provide to the stakeholders and public? You must remember you're dealing with land owners that must make a living – you must be certain.
130	Van Heerden	Mr Francois	DWA Regional Clanwilliam	24 Jan 2012 PSC meeting 3	Economic	Mr van Heerden wanted to obtain clarity on the way in which towns can be included in the economic benefits as they do contribute substantially to the economic activities. As an example the existence of Vredendal is the direct result of the agricultural sector which in turn is the result of the use of water. Before the Government Water Scheme came into existence, there was no Vredendal.. Vredendal also developed into a major regional centrum for providing services to Southern Namakwaland, the Hantam, etc. Water supply to this area therefore also has a strategic value in this regard.
131	Van Heerden	Mr Francois	DWA Regional Clanwilliam	24 Jan 2012 PSC meeting 3	Estuaries	Mr van Heerden requested that the situation at Verlorenvlei, which is a RAMSAR site, should be carefully consider as the same issue about the ecological Reserve requirements for the Verlorenvlei estuary will be raised as for the Olifants estuary. Mr Dean Impson added that a fish species which occurred in the Langvlei River, north of the Verlorenvlei has gone extinct due to excessive water abstraction and the presence of alien fish species.

132	Van Heerden	Mr Francois	DWA Regional Clanwilliam	24 Jan 2012 PSC meeting 3	Regulations	Mr van Heerden want clarify on the template that is referred to?
133	Van Heerden	Mr Francois	DWA Regional Clanwilliam	24 Jan 2012 PSC meeting 3	Water use	It must be noted that the Koue Bokkeveld was not a Government Water Control area and and was therefore less controlled and restricted with regards to irrigation development than the Government Water Control Area of the Olifants River which includes the entire Olifants River Valley.
134	Van Heerden	Mr Francois	DWA Regional Clanwilliam	24 Jan 2012 PSC meeting 3	Water use and protection	He is aware of the conservation needs but he is also of the opinion that the use of water for agriculture activities also needs to be provided for. He asked if dams could not assist in conservation projects. He is aware and acknowledges the need for conservation, but the possibility to safely accommodate wildlife, like endemic fish, in man made infrastructure and development, must also be researched.
135	Van Zyl	Mr A	Agri Association	14 June 2011 Public meeting 1	Groundwater	Is everyone dependent on the groundwater ?
136	Van Zyl	Mr Bertrand	DWA Regional	24 Jan 2012 PSC meeting 3	Water pricing	Mr Van Zyl indicated that the electricity cost for pumping water in a scheme is typically included in the price of water to the user.
137	Van Zyl	Mr Bertrand	DWA Regional	24 Jan 2012 PSC meeting 3	Water pricing	The cost for the raising of Clanwilliam will most likely be paid by the DWA and recovered from users over a period of time.
138	Viljoen	Mr Pieter	DWA National	06 September 2011 PSC meeting 2	Classification	Comment: The whole purpose of the classification is to protect and manage and implement the Reserve
139	Viljoen	Mr Pieter	DWA National	06 September 2011 PSC meeting 2	FEPA	FEPAS in the Olifants/ Doorn Water Management area: didn't the department sign it off? How do you ensure a balance between the management of the Reserve and compliance to the requirements of FEPAS?

140	Viljoen	Mr Pieter	DWA National	06 September 2011 PSC meeting 2	Stakeholder	If you look at the presentation of today, the public and private sector most probably won't understand, the data need to be simplified.
141	Viljoen	Mr Pieter	DWA National	06 September 2011 PSC meeting 2	Water quality	Water Quality: Where is the compliance with the ecological guidelines and how was the ideal category used to consider the needs of other users ?
142	Witbooi	Mr Davine	(Lutzville)	14 June 2011 Public meeting 1	Alien vegetation	What does DWA do to regulate those strategies? Did you see the dams in Lutzville, we're building already but we want to know if we can re-use the water? How does DWA handle the alien plants in the area?
143	Witbooi	Mr Davine	Lutzville Forum	14 June 2011 Public meeting 1	Re-dress and water use	She mentioned that emerging farmers must buy their water from the municipality. The location or available land is far from water resources. The historical imbalances should be addressed.
144	Witbooi	Mr Davine	Lutzville	14 June 2011 Public meeting 1	Water quality	Wil weet of die kwik vlakke in riviere getoets word?
145	Witbooi	Mr Davine		0 14 June 2011 Public meeting 1	Water quality - discharge	Vredendal Wine Cellar - Who is responsible for monitoring the discharge from the winery. Is the water good enough to be discharged? If the pH is very low but can it be used?
146	Witbooi	Ms Davine		0 14 February 2012 Public meeting 3	Emerging (resource poor farmers)	Statement: The emerging farmers are still struggling without support and access to water.

147	Witbooi	Ms Davine	0	14 February 2012 Public meeting 3	Emerging farmers	She indicated that Mr Matthee is changing his story and that he is indicating here that water is available but later he say that water is not available. She also made the statement that emerging farmers are not part of the WUAs.
	Du Toit	Mr Sakkie	Koue Bokkeveld	Written comments	Groundwater	The groundwater in the Koue Bokkeveld area is a potential source of water but the effect of abstraction on the lowerlying areas is not always know. The effect on the Sandveld is also not clear. It is recommended that a more detailed investigations be launched to see if groundwater can be an alternative source.
	Du Toit	Mr Sakkie	Koue Bokkeveld	Written comments	Ecology	It is the duty of commercial farmers to produce food and as result they exercise pressure on water resources both groundwater and surface water. He suggest that sewage disposal into rivers has an impact on water resource and it is a joint responsibility to be prevent and managed. He ask for interventions and collaboration to adress the problem.
	Burger	Mr Johan	CapeNature Porterville	Written comments	Biodiversity	The River systems have 58 monitoring points and in such a diverse ecosystem with high endemism should have more sampling points at a finer resolution.

Venter	Mr Albie	Du Toit group	Written comments	Water use	The department of Land Affairs has lifted the ban on equity schemes which will allow users again to start empowerment projects. Will the classification process only consider existing use ?
Van Wyk	Mr Gerrit (Tertius)	Agter Pakhuis Landbou Vereniging	Written comments	Water use charges	There is no differentiation between "taxes" that are paid in the various areas in the catchment and irrespective if a Water User Association is established or not. Taxes could be differentiated in areas where the existing farmers have paid for all infrastructure and be used to assist resource poor farmers.
Jantjies	Mr Andries	Vanrhynsdorp dorp emerging farmers	Written comments	Emerging farmers	We are currently using treated sewage water and municipal water. The Vanrhynsdorp water users consist only of white farmers and they are not involved.
Meintjies	Ms Elsabe	Lametzi care groente projek	Written comments	Water use	In Vanrhynsdorp they are dependent on a borehole of which the pump is out of order and hey can not get sufficient water.
Fortuin	Mr Jan	Verlorenvlei Saamwerk Boerdery	Written comments	Water use	Will the access to small emerging farmers be improved when the dam is raised. Local Municipalities is not actively involved and the small farmers is not benefitted.

MANAGEMENT ARE/

made the comment

Response	Response provided by
The data accuracy is dependant on measurement and monitoring and is often not good.	Mr Dana Grobler
Response: Mr Dana Grobler it will be recorded and forward it to DWA.	Mr Dana Grobler
The clearing of alien vegetation is surely a way to make more water available and improve river conditions. The low present ecological conditions of rivers if often not only the result of reduce flow in the rivers but the result of riparian zone impacts (bulldozing) and alien vegetation. The class of the river can be improved by the removal of aliens and do not necessarily require increased flow. In some cases the removal of alien vegetation can improve the ecological condition and also make more water available for abstraction.	Mr Dana Grobler Blue Science
Toni referred to the CSIR's FEPA (Fresh Water Ecosystem Protection Areas) maps. Classification is looking at a broader scale, making sure there's enough water, even in tributaries.	Ms Toni Belcher Project team member
The optimal use of the canal should be considered and manage appropriately. The classification process will provide answers to the future condition of the water resource and the availability or deficit of water. The management of infrastructure is critical for the efficient use of water but will not be done by the classification process.	Mr Dana Grobler Blue Science
Johan Burger – Cape Nature – was not exactly sure of the course of action and referred the question to DWA. Clearing of reeds needs to be a widely consulted activity, including discussion with DWA.	Mr Julian Conrad and Ms Candice Lasher
The use of surface water resulted in the development and dependence of groundwater and it is foreseen that groundwater use will increase in future.	Mr Dana Grobler

Klassifikasie gaan dit nie aanspreek nie. Hydrology history runs over a period of 70 years and it's averaged.	Ms Toni Belcher Project team member
Ms Toni Belcher commented that we need to distinguish between classes and categories. Classes are broad descriptors of the condition to be achieved and maintained and relate to levels of water use. Categories relate to the ecological condition and are nested within the class hierarchy. This hierarchy should allow for higher categories that may be required for conservation purposes at a finer scale. This should also therefore make provision for biodiversity protection.	Ms Toni Belcher
Mr Dana Grobler: The natural data is as good as the data that was used to prepare the raising of Clanwilliam dam information. The data for the rest of the catchment is WR2005 which is the national standard reference data. The data is therefore the best that are available. The present day and use data is less accurate.	Mr Dana Grobler
Mr Dana Grobler: The data that is used to make water use decisions are the same as the data used for determining the ecological reserve. The risks are therefore the same. In time as better data become available the classes can be revised, this is only likely in about 10 years.	Mr Dana Grobler
Mr Du Toit was requested to provide the information to allow the study team to consider when the hydrology data is assessed.	Mr Dana Grobler Blue Science

<p>Julian Conrad answered that groundwater isotopes can be used to fingerprint groundwater recharge and identify flow paths. There is a lot of uncertainty and speculation about the source of the groundwater in the Sandveld and the location of the recharge areas. This topic should be addressed by submitting a proposal to the Water Research Commission. Further studies are required.</p>	<p>Mr Julian Conrad and Ms Candice Lasher</p>
<p>The wet and dry cycles in South Africa is typical between 11 and 15 years and will repeat itself in time. Currently a relative wet period is prevailing in the Western Cape.</p>	<p>Mr Dana Grobler</p>
<p>The PowerPoint slides presenting the flow sequences and how quaternary catchment relates in sequence to the estuary</p>	<p>Mr Dana Grobler</p>
<p>Water quality is dealt with on site. To use water flow is not the answer. The solution is a natural one.</p>	<p>Ms Toni Belcher Project team member</p>
<p>Mr Grobler indicated that the raising of Clanwilliam dam should not necessarily deteriorate the situation as the multiple outlets from the dam should assist to improve the management of the dam and the impacts on the lower Olifants and not necessarily require more water from the Doring.</p>	<p>Mr Dana Grobler</p>
<p>Mr Van Heerden indicated that limitations are considered for applications in terms of the existing Reserve requirements and that in one case it could not be supported. The principle of no abstraction during low flow summer months is supported by DWA where it is relevant.</p>	<p>Mr Van Heerden</p>

Mr Grobler used the maps and data sheets to explain the data and the FEPA in the area and the way in which recommendations for the classes are made.	Mr Grobler
Response: Mr Dana Grobler – in the next two weeks a technical report will be made available via the website and posted to the stakeholders.	Mr Dana Grobler
Mr Dana Grobler indicated that the ecological categories that will support the proposed class will be specified and should be implemented.	Mr Dana Grobler
The relationship between water use and terrestrial biodiversity protection is not direct but the two government entities should liaise and collaborate.	DWA and SANBI and Dept of Agriculture to discuss matters raised.
Ms Naidoo indicated that this will be done and distributed to all stakeholders.	Ms S Naidoo
Action: They must apply at Cederberg Municipality to use the water of the borehole on Municipal land at Lamberts Bay. The water may however be too salty for irrigation purposes - Dept of Agriculture can advise them in this regard. If they are not successful at the Municipality, they can contact Mr F van Heerden for assistance.	Mr Francois van Heerden
The meeting proposed that the relevant parties meet to discuss the equipment and the matters raised during the meeting.	Mr Francois van Heerden
Ms Doreen Februarie ask (like in the previous public meeting) that the various parties meet and resolve issues and make progress as these issues are not directly relate to classification.	Ms Doreen Februarie

<p>The water act is clear on the management of water resources to ensure sustainable use over the long term. If rivers are already in and E or F ecological conditions then this is considered to be unacceptable and measures should be put in place to rectify the situation. The class will never recommend a E or F ecological category as this will be below the threshold for sustainable use of the resource.</p>	<p>Mr Dana Grobler Blue Science</p>
<p>According to the NWA the reserve has the first right to water. Second in line is the water users and here DWA will look at strategic users like ESKOM, etc. Stakeholders should actually tell DWA what those categories should look like. Conservation has already been identified as very important.</p>	<p>Ms Toni Belcher Project team member</p>
<p>Meeting take note of the information.</p>	
<p>Yes there are good aquifers in the WMA, however there are areas showing signs of stress (i.e. groundwater abstraction is greater than the groundwater recharge).</p>	<p>Mr Julian Conrad and Ms Candice Lasher</p>
<p>Yes there are an adequate number of boreholes across the WMA for the scale of this project, although it will be beneficial to review the entire groundwater monitoring network within the WMA.</p>	<p>Mr Julian Conrad and Ms Candice Lasher</p>
<p>The study conducted in the Jan Dissels was a first attempt to consider the need for compulsory licensing. Compulsory licensing will take place in areas where water resources are not sustainably utilised (over utilisation) or/and the need for re-dress is such that a process should be followed to rectify the situation. Users will always be provided with an opportunity to rectify the situation themselves as compulsory licensing can be a protracted process.</p>	<p>Mr Dana Grobler Blue Science</p>

Bruce Paxton: Fish kills are sometimes the result of high temperatures combined with degraded water quality conditions in the river towards the end of summer and usually affect alien fish species. Fish kills below the dam may be the result of temperature shocks, i.e. a higher rate-of-change that could be alleviated if multiple level releases were incorporated	Mr Bruce Paxton
Prof Kleynhans explained that the more expensive the price of the land the lower the internal rate of return (IRR). For wine grapes the IRR for the lower Olifants is 4.21 % which is very low. It is much better for potato farming at 12.5%.	Prof Kleynhans
Ms Shane Naidoo responded - The template should speak to Management measures and needs to give effect to Management objectives.	DWA
The availability of water is often not the issue but rather the establishment of infrastructure to get the water to the resource poor farmers.	DWA
Mr Grobler confirmed the statement.	Mr Grobler
Ms S Naidoo: admitted that it is problem area and the DWA is working towards streamlining the decision making process.	Ms S Naidoo
Mr Grobler explained that the updated hydrology which was generated for the raining of Clanwilliam dam was used and in other parts the WR2005 data was used. This is the most recent data available for the study area.	Mr Grobler

Mr Francois van Heerden: Eventually the Northern Sandveld Water Users Association (WUA) was financially not strong enough to implement the Water Use Monitoring Project. The monitoring equipment are still with the WUA. It is not viable to use expensive Municipal Domestic water for irrigation purposes. Other sources must be considered.	Mr Francois van Heerden
It is the Provincial Dept of Agric who initiated a project which use satellite images to monitor water use. The meeting proposed that the relevant parties meet to discuss the equipment and the matters raised during the meeting.	Mr Francois van Heerden
Dr Harrison Pienaar responded: The decision-making processes must be integrated and the classification of water resources will take the FEPAs into consideration when the scenarios are generated. This wil allow all stakeholders to evaluate and see the result of the FEPA options in terms of its impact on social and economic aspects.	Dr Harrison Pienaar
Mr Dana Grobler to extend an invitation to anybody who would like to discuss technical issues.	Mr Dana Grobler
The estuary is dependant on large floods and high flows and can maintain in this way. The lows flows in small tributaries is vital for the survival of fish and other species. The meeting agreed with Mr Impson.	All members attending the meeting
Mr Grobler: Yield is the volume of water that can be supplied or abstracted with a certain assurance of supply over a period of time and which can be used by users providing certainty as to the number of years during which the water will not be available.	Mr Dana Grobler

Classification is all about determining the consequences of proposed decisions and obtain input and comment from users and stakeholders in the catchment.	Mr Dana Grobler
Ms. Shane Naidoo responded: The DWA Minister can add a clause for revision. Achievement of a management class can only be achieved when all 7 steps of the classification process have been completed, which includes the public consultation process and the integration of the outcome of classification into the IWRM process.	Ms Shane Naidoo
Prof Kleynhans indicated that the price of fertilizers and pumping costs is such that users will not easily over irrigate. The beneficial use of water is not included in classification but can be used as a mechanism to manage water and give effect to the class.	Prof Kleynhans
Mr Dana Grobler: The most critical issue is low flows in summer and in small tributaries it is even more important. It is important to take the natural flows into consideration. If the river has naturally dried up in summer the ecological Reserve cannot make provision. The challenge is the creation of a regulatory mechanism to implement limitations in the low flows seasons but at the same time allows the taking of additional water in the high flow winter season.	Mr Dana Grobler
Groundwater and treated wastewater will have to supplement the use of surface water.	Mr Tony Barbour Project team member

It was suggested that Mr Jantjies discusses this with Nik Wullschleger – however the IWRM funds and projects have drawn to a close. Francois van Heerden said the groundwater quality is generally poor in the area and drilling a second borehole is not going to solve this problem. The problem Mr Jantjies raised remains unsolved. The site should be assessed by a geohydrologist.	Mr Julian Conrad and Ms Candice Lasher
The classification process is not intended to undertake an exact determination of existing lawful use but need to provide an indication of the presents situation to enable the generation of information of the possible consequences of class determinations	Mr Dana Grobler
Dana Grobler: Once we have narrowed the possible scenarios then the calculation for the possible economic and social impacts will be done based on potential increase and/or decrease in water use and ecosystem conditions. The agricultural models are being set up.	Mr Dana Grobler
Mr Dana Grobler: The social and economic implications should indicate the implications of various class scenarios.	Mr Dana Grobler
The study team must consult with the stakeholders. This is a very poor area and the unemployment rate is very high. Economic development desperately needed and the role hat water could play will be investigated in the agricultural sector.	Mr Dana Grobler
Ms Shane Naidoo indicated that the guidelines are not rigid and she is aware that not all aspects are practical and applicable and were there are gaps identified through the implementation, these gaps will be addressed in the revision of the guidelines..	Ms Shane Naidoo
Dana Grobler: Yes it is possible in broad terms. The current ecological condition can be improved by managing the impact on the fishing in the estuary and the impact on estuarine vegetation and land use around the estuary. The condition of the estuary is not solely dependant upon the flow into the estuary.	Mr Dana Grobler

The need to protect estuaries that are still in a good state is essential. We must however distinguish between flow related impacts and impact related to the use of the estuary as both can have impacts in different ways each deterioration the ecological condition	Mr Dana Grobler
Mr Manamela explained that the IUA will be used but also smaller scale where the data is available for setting RQOs. The RQO regulations did not specify IUA but rather resource units. Ms Shane Naidoo indicated that the RQOs meeting is imminent.	Mr Manamela
The FEPA maps distinguish between river FEPAs and fish support areas. The fish support areas should not be allowed to further deteriorate and the FEPAs should ideally be management to be in A or B ecological category.	Mr Dana Grobler
The meeting agreed that the scale is critical and that the results must be presented at an appropriate scale.	The members of the meeting
Mr. Dana Grobler responded: The Classification of water resources will not necessarily result in a reduction in use. The classification process will provide an opportunity to discuss the implications of the increases or decreases in water use from an economic as well as social and environmental point of view. The classification of water resources should make the water use licensing process easier as it provides a better understanding of the impacts of future water use on the greater catchment and will guide decision making with regards to the issuing water use licenses.	Mr Dana Grobler
No. Biodiversity people are looking at tributaries and the debate about individual tributaries needs to go on.	Ms Toni Belcher Project team member
Yes this is quite possible – as the demand is ever increasing and the resources generally over-utilized. This is especially a problem in popular coastal holiday towns. Lamberts Bay is getting a desalination plant. Coastal towns need to implement water conservation and water demand management stringently. Climate change studies indicate the West Coast is going to become drier.	Mr Julian Conrad and Ms Candice Lasher

Mr M Murovhi: General authorization can be used when smaller amounts of water are used. The transport and access often remains the issue to resolve. Mr M Murovhi: Equitable allowance is the key. He will look into the statements and the use of the water. The availability of water is often not the issue but rather the establishment of infrastructure to get the water to the resource poor farmers.	Mr Mashudu Murovhi
François van Heerden mentioned the decision regarding the raising of the Clanwilliam Dam is approved – They shall have to look at the cost implications:- The level, it should be raised, - Still need to assess who will benefit and how communities can benefit, - Starting date of project – 2012, - Completion date – should be 2016.	Mr Tony Barbour Project team member
François van Heerden mentioned the decision regarding the raising of the Clanwilliam Dam is approved – They shall have to look at the cost implications:- The level, it should be raised, - Still need to assess who will benefit and how communities can benefit, - Starting date of project – 2012, - Completion date – should be 2016.	Mr Tony Barbour Project team member
This needs to be followed up with the Dept of Agriculture and DWA.	Mr Julian Conrad and Ms Candice Lasher
There should be firstly enough water to maintain the river systems that is supplying us with services before people can take more water for use, otherwise the dilution ability and ecosystem condition deteriorates to an unacceptable point.	Mr Dana Grobler Blue Science
Systems are naturally variable. The key thing is to measure. The class will remain the same the important issue is that the resource stays within the class over time.	Ms Toni Belcher Project team member
Systems are naturally variable. The key thing is to measure. The class will remain the same the important issue is that the resource stays within the class over time.	Ms Toni Belcher Project team member

<p>The project team will investigate the issue surrounding the allocation of water from the Clanwilliam Dam in terms of the classification process . The Reserve has been determined for the raising of the Clanwilliam dam and the class will sanction the need for the Reserve to be provided form the dam. The Reserve is not requiring a lot of water as the main stream of the Olifants River is consider to be serving the economic needs and dependencies but the sustainable use of the resource is a key consideration.</p>	<p>Mr Dana Grobler Blue Science</p>
<p>Dr Harrison Pienaar responded that the classification is not purposefully designed to prejudice against existing use. The classification of water resources however opens up these discussions. The Minister must in any case implement the Reserve and other provisions of the Act. The classification process allows for the determination of the need to protect and use water resources and to understand the implications thereof.</p>	<p>Dr Harrison Pienaar</p>
<p>Baie damme is al baie ouer as die monitering stelsel wat in plek is. River Health monitor die bou van damme, aangesien die bou van damme voorkom dat visse op en af in die stroom beweeg.</p>	<p>Ms Toni Belcher Project team member</p>
<p>The imbalances of water resource for emerging farmers has to be controlled by the DWA Regional office. The municipalities were invited to different meetings, and some did attend.</p>	<p>Mr Tony Barbour Project team member</p>
<p>Prof Kleynhans explained that the crop rotation for potatoes is essential as a result of the need to control parasites. All fertilizers are imported into an area like the Sandveld as the soils are nutrient poor. It is therefore inaccurate to say that the rotation of crops is nutrient harvesting activity. In terms of food security most fruit are exported as well as citrus. The jobs opportunities also bring money into people pockets which make it possible to buy food and undertake other economic activity. It is important not to over simplify the situation as the rand exchange rate influence again the ability to economically export.</p>	<p>Prof Kleynhans</p>

Illegal water use will remain illegal and will not be legalised by the classification process.	Mr Dana Grobler Blue Science
The raising of Clanwilliam Dam will be factored in the generation of the scenarios.	Mr Tony Barbour Project team member
The question was referred to Ms Shane Naidoo. Don't wait for a class to be determined, but once a class is determined, set a management plan so that users can understand the process and limitations and opportunities. You don't have to wait for the Catchment Management Plan to take the necessary action and give effect to the class.	Mr Dana Grobler Blue Science
The meeting proposed that the relevant parties meet to discuss the equipment and the matters raised during the meeting.	Mr Francois van Heerden
This situation needs to be discussed with DWA.	Mr Julian Conrad and Ms Candice Lasher
A suggestion was made that the possibility of Bore-hole water as an alternative water resource should be explored. Also look at the purification of waste water altogether a more expensive process.	Mr Tony Barbour Project team member
A suggestion was made that the possibility of Bore-hole water as an alternative water resource should be explored. Also look at the purification of waste water altogether a more expensive process.	Mr Tony Barbour Project team member

There are many ways how the community can re-use water and referred them to Jevon Pekeur at the local municipality regarding the bore-hole.	Mr Dana Grobler Blue Science
Incremental is the water emanating from the individual quaternary catchment and cumulative is all the flow from a quaternary and everything upstream from the quaternary catchment.	Mr Dana Grobler
The class will inform and determine the level of the Reserve and resource quality objectives and therefore also the future potential use.	Mr Dana Grobler
Mr S Naidoo responded that the Minister of DWA/DEAT will sign the class configuration that will be gazetted for comments if the state law advisor is in agreement that it can be signed. All departments can then also make comment on the document during the 60 day commenting period. The responses to comment on the gazetted class configuration may not be limited to DWA. In such case the other department will be requested to participate in responding to the questions.	Ms S Naidoo

<p>Prof Kleynhans explained that it is possible to calculate the return on investment of using water from Clanwilliam and from others parts of the catchment as it is based on input costs to enable the agriculture activity to take place. Mr Grobler added that it is not the duty of classification determination project to determine the most beneficial use of water or to determine who should get priority water allocation but normal input cost and market prices for products will favour those who can use “cheaper” water as the input is much lower.</p>	<p>Prof Kleynhans</p>
<p>Mr Dana Grobler; The water allocation processes of DWA makes specific provision for emerging farmers and restriction on use will be applied with caution. The volumes used by emerging farmers should not majorly restrict their use.</p>	<p>Mr Dana Grobler</p>
<p>Ms Shane Naidoo and Mr Sadimo Manamela.</p>	<p>Ms Shane Naidoo</p>
<p>Comment with which the meeting agreed</p>	<p>Mr Dana Grobler</p>
<p>They meeting g accepted the explanation of Mr Naidoo.</p>	<p>Ms Shane Naidoo</p>
<p>She proposed that all stakeholders, emerging farmers, LORWUA, commercial farmers with DWA should address the issues together. DWA will act as facilitator in this process.</p>	<p>Mr Tony Barbour Project team member</p>

She proposed a further discussion amongst role-players to address the issue of water that was also accepted by the group. The municipality should be part of the process.	Mr Tony Barbour Project team member
She proposed a further discussion amongst role-players to address the issue of water that was also accepted by the group. The municipality should be part of the process.	Mr Tony Barbour Project team member
Response: F van Heerden DWA: Operating rule must be developed and will be done as part of the raising of Clan William dam. Multiple level release will be possible	Mr Francois van Heerden
This will be done to coincide with the publication of the gazette.	Ms T Nyamande
Dr Harrison Pienaar indicated that the monitoring of water resource is key as the condition of the water resources is the end objective of classification. The existing monitoring programs will need to be updated to ensure that the required information is collected.	Dr Harrison Pienaar
Dana Grobler indicated that the preliminary Reserve already signed is making provision for this arrangement, and it will be carried over into the recommended classes	Mr Dana Grobler
Mr Dana Grobler added that high flows should be supplied from both the Olifants and Doring as most often these floods cannot be captured. A number of localized impacts on the estuary can also be management that are not flow dependent and will improve the estuary condition.	Mr Dana Grobler

Ms S Naidoo: Once a class is set then the reserve must be set and Objectives to satisfy and comply with the class. Preferably a catchment management plan must be compiled which will guide the management actions and regulations that will give effect to the class. This is applicable to both surface and groundwater.	Ms S Naidoo
It was suggested that this is discussed this with Nik Wullschleger – however the IWRM funds and projects have drawn to a close. . Francois van Heerden said he was not sure of what the solution is and the problem remains unsolved. The situation should be assessed by a geohydrologist.	Mr Julian Conrad and Ms Candice Lasher
It is true, it also impact on the economic contribution of the catchment.	Mr Tony Barbour Project team member
DWA is currently doing studies on the raising of the Clanwilliam Dam. The raising of the dam wall will have no effect on the classes though. The allocation of water from the dam is under consideration and DWA will appoint technical staff to consider the optimal allocation from a raised Clanwilliam Dam.	Ms Toni Belcher Project team member
DWA is currently doing studies on the raising of the Clanwilliam Dam. The raising of the dam wall will have no effect on the classes though. The allocation of water from the dam is under consideration and DWA will appoint technical staff to consider the optimal allocation from a raised Clanwilliam Dam.	Ms Toni Belcher Project team member
Die riooldamme was gebou om rioolwater uit die rivier te hou. Toni vra dat Jan met DWA amptenare hieroor praat.	Ms Toni Belcher Project team member
Mr Dana Grobler indicated that if Clan William dam is raised it could be a source of water for Lamberts Bay. Mr ... indicated that a desalinization plant is being constructed in Lamberts Bay which will reduce the pressure on the groundwater resources and possible also the need from other sources.	Mr Dana Grobler

<p>The classification process will most likely highlight some of the existing and known problems and limitations. Full utilisation is already taking place in the main stream of the Olifants river (upstream from Clanwilliam dam) during the low flow season and perhaps the only abstractions in the high flow season can still be accommodated, This is however an expensive way of obtain water as off channel storage facilities needs to be build and pumps with high capacities needs to be installed to use the available water in the high flow events. The needs of the downstream users and Clanwilliam dam must also be taken into consideration. The hydrology data used for the raising of Clanwilliam Dam will assist us to determine the options and scenarios.</p>	<p>Mr Dana Grobler Blue Science</p>
<p>Mr. Dana Grobler responded and indicated that the raising of Clanwilliam Dam can be considered as the Reserve considered the raising of the Dam as one of the future development scenarios. The raising of the dam was therefore dealt with during the approval of the Ecological Reserve by the Minister of DWA for the Olifants Doring catchment area. The scenario which will include the use from a raised Clanwilliam Dam will be considered and discussed as with all the other scenarios. Dr Harrison Pienaar also indicated that the revised NWRS (National Water Resource Strategy) is available and also provides guidance in terms of the national strategy for the management of water resources by DWA. He encouraged PSC members to study the document.</p>	<p>Mr Dana Grobler</p>
<p>Yes. The hydrology modelling will help us to understand the rer4latyiosnhiop between the various points in the river system. It is importing to note that the need at the end of the river reach is having implication for each portion of the catchment that needs to contribute to the achieve the required flow at a point further downstream.</p>	<p>Mr Dana Grobler Blue Science</p>

Mr Dana Grobler: Climate change could change the amount of runoff in the catchments and the ecological needs is specified as a percentage of the natural run-off which will imply that proportionally the Ecological Reserve will also be less in drier conditions.	Mr Dana Grobler
"Ek weet dit is sleg." Wilna Klopper. Daar was 'n tyd dat DWA gekyk het na die samesmelting van sekere CMA's en die idee was dat die Berg en OD saamsmelt. Niks was intussen egter aan die stakeholders deurgegee ten opsigte van hierdie proses nie. 'n Besluit sal egter hieroor geneem word, wanneer weet niemand nou nie.	Ms Toni Belcher Project team member
The groundwater still needs to be monitored, especially within or close to production boreholes. The borehole water levels must remain within acceptable limits.	Mr Julian Conrad and Ms Candice Lasher
Meeting agreed with the comments made by Mr Steenkamp.	0
The WUA must play a critical role in the implementation and the compliance of water allocations. Mr Steenkamp is encouraged to take up the process of the establishment of the CMA and WUA with the Department of Water Affairs.	Mr Dana Grobler Blue Science
Mr M Murovhi: 19 WMA (of which OD WMA is one). All the CMA proposals were made. At the point when this was submitted the need for 19 CMA's were questioned. We will possibly only have 9 CMA. These things need to be finalised. In the interim the regional office remains the proto CMA.	Mr Mashudu Murovhi
The meeting proposed that the relevant parties meet to discuss the equipment and the matters raised during the meeting.	Members of the meeting

The expertise of an agriculturist (Theo Kleynhans) is needed to address this question because a proper analysis should be conducted – have a look at financial planning – input cost, and market etc.	Mr Tony Barbour Project team member
The expertise of an agriculturist (Theo Kleynhans) is needed to address this question because a proper analysis should be conducted – have a look at financial planning – input cost, and market etc.	Mr Tony Barbour Project team member
The class of the resource determine the degree to which the resource can be used. The lower the class the more can be used but with the important condition that a certain level cannot be exceeded and that the needs of the ecosystem is important and the needs of downstream users. The class must ensure sustainable use and the process will explain the economic and social implication of different use and protection options.	Mr Dana Grobler Blue Science
"I think it's a D", Toni. The water balance was addressed when the reserve was determined.	Ms Toni Belcher Project team member
Mr Grobler provided an overview of the steps and what is to be achieved with classification.	Mr Grobler
Mr Grobler used the map to indicate the relationship between the catchments in the upper Verlorenvlei area.	Mr Grobler
Mr Grobler responded that he agrees with the statement and the classification for the Olifants Doorn focuses very much on the ecology as a departure point. The purpose of classification is to see the interaction between the three elements of ecology, economy and the social implications.	Mr Grobler
Constant discharge pumping tests need to be conducted on boreholes and the length of the tests depends on the objective of the borehole.	Mr Julian Conrad and Ms Candice Lasher
The borehole must be registered if the use > 10m ³ /d, but they can use the water as Schedule One is a listed activity.	Mr Julian Conrad and Ms Candice Lasher

<p>We need to ensure water quality for the various users groups</p>	<p>Mr Dana Grobler</p>
<p>Toni Belcher: This is a guideline that we can give to the Public. These are the scenarios that we are working on.</p>	<p>Ms Toni Belcher</p>
<p>Prof Kleynhans indicated that the way to answer this question is to look at economic multipliers. The data is not available to determine the multipliers but it could be substantial. The agricultural sector use 95% of the water in the catchment.</p>	<p>Prof Kleynhans</p>
<p>Mr Dana Grobler indicated that it will be carefully considered and the information will be provided.</p>	<p>Mr Dana Grobler</p>

The sequence of the process to be determined and decisions needs to be taken if the class template will also include the Reserve template.	Ms Shane Naidoo
The meeting appreciated the clarity provide by Mr Van Heerden	All members attending the meeting
Mr Dana Grobler indicated that is the purpose of classification to propose options and to provide the implications of the options.	Mr Dana Grobler
The question is referred to Mr Julian Conrad and will be addressed during the group discussion with him.	Mr Dana Grobler Blue Science
The meeting appreciated the clarity provide by Mr Van Zyl	All members attending the meeting
Comment accepted by the meeting.	All members attending the meeting
The meeting agreed with Mr Pieter Viljoen	The members of the meeting
Shane Naidoo: The FEPA maps are currently with the Minster for approval.	Ms Shane Naidoo

Only after the Public Meeting we will know which scenarios will be implemented, and can be recommended to the Minister for approval. There is a study under way to determine if more will become available from the Dam	Mr Dana Grobler
Dana Grobler: The classification team is not determining the RQO's and did not therefore consider all the users groups needs.	Mr Dana Grobler
South Africa is dry, using less water must be the norm and South Africa is not there yet.	Mr Dana Grobler Blue Science
Comment well received.	Mr Tony Barbour Project team member
Daar is min data hieroor in die area. Die koste is te hoog om analyses te doen. Ons kyk op 'n breë vlak na water kwaliteit as deel van klassifikasie.	Ms Toni Belcher Project team member
This waste water may go back into the cooling system. Ms Wilna Kloppers stated that there are regulations with regard to water quality and re-use of that water. The person discharging the water is responsible for the monitoring and a report needs to be submitted to DWA. In sensitive areas then DWA can go out themselves and they will do the monitoring.	Mr Julian Conrad and Ms Candice Lasher
Mr Mashudu Murovhi responded and indicated it depends on where in the catchment you are using water. The way in which the projects area structure. Some of these Projects made connection to Municipal supply 1ha, 2ha or 3ha etc. The objective is to how best to use water and to assist emerging farmers. In some cases it is not feasible to establish water use. Mr Mashudu indicated that he will arrange a meeting with the group of emerging farmers.	Mr Mashudu Murovhi

<p>Mr Johan Matthee (LORWUA) responded and indicated that R1 million was used to purchase water from emerging farmers and 1.8 ha was made available for the use by emerging farmers. 280 emerging farmer (small farmers) is currently supplied by the LORWUA. Mr Joost Engelbrecht of the Noordelike Sandveld indicated that it is not true to say that emerging farmers are not part of the WUA. Emerging farmers are part of the WUAs. Mr S du Toit: Currently WUA is obligated to accommodate emerging famers. There are 5 – 7 Farmers Association subcommittees with 5 – 10 members each. The WUA does make provision for emerging farmers. Mr. Mashudu said that he would assist with the establishment of the substructures and that there will be DWA representation.</p>	<p>Mr Matthee, Mr Engelbrecht and Mr S du Toit</p>
<p>Groundwater is considered in the classification in so far as our current knowledge goes and in so far as our understanding goes for the contribution of groundwater to base flow in the rivers. The classification process will not undertake detailed studies on groundwater movement but in general it can be stated that at least at a local level that there is often links between groundwater and as such water and use of groundwater can influence surface water availability and use.</p>	<p>Mr Dana Grobler</p>
<p>Water resources should both be viewed and managed in isolation. The compliance with a class also implies that management of both volumes and quality must take place concurrently to achieve compliance with the class.</p>	<p>Mr Dana Grobler</p>
<p>Once the classes has been determined and accepted by DWA a catchment management plan which should include a monitoring programme should be put into place to monitor and report on the compliance with the classes. This process should allow the revision of the monitoring programme.</p>	<p>Mr Dana Grobler</p>

Classification will consider the resource and if more water is available in the rivers then it can be used and empowerment project scan be considered. If water is overused however it would imply the need for a possible reduction in use which will then not allow new water to be allocated.	Mr Dana Grobler
The catchment management charges that are paid by all users should be used for the management of the catchment and could potentially be used for specific projects as decided by DWA and the CMA.	Mr Dana Grobler
Mr Jantjies should refer to the undertaking of Mr Mashudu Murovhi of DWA Western Cape who will arrange meetings with the groups as discussed at length in Public meeting 2 and 3.	Mr Dana Grobler
Ms Meintjies should refer to the undertaking of Mr Mashudu Murovhi of DWA Western Cape who will arrange meetings with the groups as discussed at length in Public meeting 2 and 3	Mr Dana Grobler
Mr Fortuin should refer to the undertaking of Mr Mashudu Murovhi of DWA Western Cape who will arrange meetings with the groups as discussed at length in Public meeting 2 and 3	Mr Dana Grobler