2. IDENTIFICATION, ASSESSMENT AND RANKING OF IMPACTS TO REACH THE PROPOSED ALTERNATIVES INCLUDING THE <u>PREFERRED ALTERNATIVE</u> WITHIN THE SITE

Note: In this section the focus is on the identified issues, impacts and risks that influenced the identification of the alternatives. This includes how aspects of the receiving environment have influenced the selection.

(a) List the identified impacts and risks for each alternative.

| Alternative 1: | Lattice Mast - Preferred Alternative: Visual (Medium - Low negative); Socio-economic (Low positive) | |
|--------------------|---|--|
| Alternative 2: | Tree Mast: Visual (High – Medium negative); Socio-economic (Low positive) | |
| Alternative 3: | Monopole Mast: Visual (High – Medium negative); Socio-economic (Low positive) | |
| No-go Alternative: | Socio-economic (Low-negative) | |

(b) Describe the impacts and risks identified for each alternative, including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts can be reversed; may cause irreplaceable loss of resources; and can be avoided, managed or mitigated.

The following table serves as a guide for summarising each alternative. The table should be repeated for each alternative to ensure a comparative assessment. (The EAP has to select the relevant impacts identified in blue in the table below for each alternative and repeat the table for each impact and risk).

| Alternative 1: | Proposed 25m high Lattice Mast – (Preferred) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Noise Low-negative |
| Nature of impact: | Noise impact from machinery on the property and neighbouring residential properties during construction. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Localised noise disturbance on the site |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Negligible |
| Degree to which the impact can be reversed: | Definite |
| Indirect impacts: | Slight increase in localised ambient noise levels (negligible) |
| Cumulative impact prior to mitigation: | Low-negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - Low negative |
| Degree to which the impact can be avoided: | Medium |
| Degree to which the impact can be managed: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low - negative |
| Significance rating of impact after mitigation | Low - negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) OPERATIONAL PHASE | - |
| Potential impact and risk: | The activity is not expected to have any noise impacts during the operational phase. |
| Nature of impact: | , , , , , , , , , , , , , , , , , , , |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |

| Degree to which the impact may cause irreplaceable loss of resources: | |
|---|--|
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| | |
| Degree to which the impact can be reversed: | |
| Degree to which the impact can be reversed: Indirect impacts: | |
| Indirect impacts: Cumulative impact prior to mitigation: | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: | |
| Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: | |

| Alternative 1: | Proposed 25m high Lattice Mast – (Preferred) |
|---|---|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Visual impact: Medium-negative. The development of the mast will have a visual impact because of the height of the mast (25m in height) and is located within an agricultural area of Dal Josafat, Paarl. |
| Nature of impact: | Unsightly views due to construction site |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Localised visual disturbance on site |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | Negligible |
| Degree to which the impact can be reversed: | Low |
| Indirect impacts: | Low |
| Cumulative impact prior to mitigation: | Low-Medium negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - negative |
| Degree to which the impact can be avoided: | Medium |
| Degree to which the impact can be managed: | Visual impact mitigation measures will be dealt with in the Environmental Management Programme ("EMPr"). The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. |

| Degree to which the impact can be mitigated: Proposed mitigation: | The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take place during normal working hours. Implementation of the EMPr. Probable The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. |
|---|---|
| | Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Residual impacts: | · |
| | Very Low-negative |
| Cumulative impact post mitigation: Significance rating of impact after mitigation | Low - negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - negative |
| OPERATIONAL PHASE | |
| Potential impact and risk: | Visual impact: Medium-negative |
| Nature of impact: | The development of the mast will most probably have a visual impact because of the height of the mast (25m in height) located within an agricultural area of Dal Josafat, Paarl. |
| Extent and duration of impact: | Local, Permanent |
| Consequence of impact or risk: | Low-Medium negative |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | Low - negative |
| Degree to which the impact can be reversed: | Very Likely |
| Indirect impacts: | Negligible (Possibly during the harvesting season and holiday season). |
| Cumulative impact prior to mitigation: | Medium - negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - negative |
| Degree to which the impact can be avoided: | Highly Unlikely (Low) |
| Degree to which the impact can be managed: | Medium |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | Restrict the height of the mast to only 25m; Construct a lattice mast; and Implementation of the EMPr. |
| Residual impacts: | Very Low - negative |
| Cumulative impact post mitigation: | Very Low - negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - negative |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation | |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |

| Proposed mitigation: | |
|--|--|
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 1: | Proposed 25m high Lattice Mast – (Preferred) | |
|---|--|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | | |
| Potential impact and risk: | Socio-Economic (Low - Positive) | |
| Nature of impact: | Temporary jobs will be created in the construction industry during the construction phase. | |
| Extent and duration of impact: | Local, Duration of construction phase | |
| Consequence of impact or risk: | Low - Positive (temporary job creation) | |
| Probability of occurrence: | Definite | |
| Degree to which the impact may cause irreplaceable loss of resources: | N/A. This is a positive impact | |
| Degree to which the impact can be reversed: | N/A. This is a positive impact | |
| Indirect impacts: | Very - Low - Positive (contribute to temporary construction jobs). | |
| Cumulative impact prior to mitigation: | Low - Positive | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive | |
| Degree to which the impact can be avoided: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. | |
| Degree to which the impact can be managed: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. | |
| Degree to which the impact can be mitigated: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. | |
| Proposed mitigation: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. | |
| Residual impacts: | Low – Positive (Temporary jobs to be created during the construction phase). | |
| Cumulative impact post mitigation: | Low – Positive | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low – Positive | |
| OPERATIONAL PHASE | T | |
| Potential impact and risk: | Socio-economic aspect (Medium – Positive) | |
| Nature of impact: | The proposed activity will increase the coverage of telecommunications services, including providing a more reliable and wider coverage. The proposed mast will have a positive impact on the socio-economics of the surrounding area as it will provide communication users with the option of faster internet coverage, cheaper cellular rates and available, stable network coverage which could be critical in the case of an emergency. | |
| Extent and duration of impact: | Regional, Long-term | |
| Consequence of impact or risk: | Please see above. The activity will increase the cellular network coverage within the area. Medium – Positive | |
| Probability of occurrence: | Highly Probable | |
| Degree to which the impact may cause irreplaceable loss of resources: | N/A. Unlikely to cause any loss of resources. This is a positive impact. | |
| Degree to which the impact can be reversed: | N/A. This is a positive impact. | |
| Indirect impacts: | Low – Positive indirect impacts associated with the activity. Improved mobile network coverage within the surrounding area. | |
| Cumulative impact prior to mitigation: | Medium - Positive | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive | |
| Degree to which the impact can be avoided: | N/A. This is a positive impact that will improve the cellular network coverage within the surrounding area. | |
| Degree to which the impact can be managed: | N/A. This is a positive impact. | |
| Degree to which the impact can be mitigated: | N/A. This is positive impact. | |
| Proposed mitigation: | N/A. This is a positive impact. No mitigation measures required. | |
| Residual impacts: | Low - Positive | |
| Cumulative impact post mitigation: | Low - Positive | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive | |
| DECOMMISSIONING AND CLOSURE PHASE | | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. | |
| Nature of impact: | | |
| Extent and duration of impact: | | |

| Consequence of impact or risk: | |
|---|--|
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| (e.g. Low, Medium, Medium-High, High, or Very-High) | |
|---|---|
| Alternative 1: | Proposed 25m high Lattice Mast — (Preferred) |
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have an impact on heritage and cultural-historic aspects. |
| Nature of impact: | The loss of heritage, cultural or historic aspects during construction. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Medium - negative |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Medium |
| Degree to which the impact can be reversed: | Medium |
| Indirect impacts: | Very - Low Negative |
| Cumulative impact prior to mitigation: | Low - Negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - Negative |
| Degree to which the impact can be avoided: | Medium (Likely) |
| Degree to which the impact can be managed: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium (Likely) |
| Proposed mitigation: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Residual impacts: | Negligible |

| Cumulative impact post mitigation: | Low - Negative |
|--|---|
| Significance rating of impact after mitigation | Low- Negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) OPERATIONAL PHASE | |
| Potential impact and risk: | Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have an impact on heritage and |
| Nature of impact: | cultural-historic aspects. The loss of heritage, cultural or historic aspects during the operational phase |
| Extent and duration of impact: | Local, Duration the operational phase |
| Consequence of impact or risk: | Medium - Negative |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Low |
| Degree to which the impact can be reversed: | Medium |
| Indirect impacts: | Very – Low Negative |
| Cumulative impact prior to mitigation: | Low - Negative |
| Significance rating of impact prior to mitigation | Medium - Negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: | Medium (Likely) |
| Degree to which the impact can be managed: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium (Likely) |
| Proposed mitigation: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low – Negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE | Low – Negative |
| | The project as proposed does not require 'decommissioning' or 'closure', |
| Potential impact and risk: Nature of impact: | as such the potential impacts thereof is considered irrelevant. |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Degree to which the impact can be avoided: | |
|--|--|
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| expected to have any impacts on ecological or biodiversity pares ("CBA") proposed alle is not located within a Critical Biodiversity Area ("CBA") Ecological Support Area ("ESA") and is totally transformed from its natus state due to past development activities on the property. The site control some patches of kilknyu gras and is tocated adjacent to a sports field. Local, Duralition of construction phase Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Degree to which the impact prior to miligation: Degree to which the impact can be avoided: Degree to which the impact prior to miligation with the impact can be avoided: Degree to which the impact can be avoided: Degree to which the impact can be managed: | Alternative 1: | Proposed 25m high Lattice Mast – (Preferred) |
|--|--|--|
| Due to the site location and nature of the activity. It is expected to have any impacts no ecological or byte not is totally transformed from its natural state and duration of impact: Extent and duration of impact: Local Duration of construction phase Consequence of impact or risk: Probability of occurrence: Begree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Degree to which the impact can be reversed: Degree to which the impact can be enabled: Degree t | PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Due to the site location and nature of the activity. It is expected to have any impacts no ecological or blood/vestily aspects. In proposed site is not located within a Critical Biodiversity Area ("CBA") Ecological Support Area ("CBA") and is totally transported from its naturated due to past development activities on the property. The site contains any patches of kilkyury grass and is located adjacent to a sports field. Extent and duration of impact: Extent and duration of impact or risk: Probability of occurrence: Begine to which the impact can be reversed: Indirect impact professory and impact professory in the property of the professory of the p | Potential impact and risk: | Ecological aspect |
| Extent and duration of impact: Local, Duration of construction phase | | Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects. The proposed site is not located within a Critical Biodiversity Area ("CBA") or Ecological Support Area ("ESA") and is totally transformed from its natural state due to past development activities on the property. The site contains |
| Consequence of impact or risk: Negligible | Extent and duration of impact: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Definite Indirect impacts: Significance rating of impact prior to mitigation: Negligible Negligible Negligible Negligible Low, Medium, Medium-High, High, or Yery-High) Degree to which the impact can be avoided: The EMPr must be enforced and monitored by the Environmental Control office ("ECO"). The following measures should be implemented among others: The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction activities to be clearly manner and must not damage natural vegetation. Degree to which the impact can be managed: Degree to which the impact can be mitigated: Medium The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleane to the satisfaction of the ECO. Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take place during normal working hours. Implementation of the EMPr. Medium The EMPr must be enforced and monitored by the Environmental Control office ("ECO"). The following measures should be implemented among others: "The contractor shall res | Consequence of impact or risk: | |
| Loss for resources: Inginy Unlikely | Probability of occurrence: | Highly Unlikely |
| Insignificant Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be avoided: Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Medium Degree to which the impact can be mitigated: Medium Degree to which the impact can be mitigated: Medium The EMPr must be enforced and manifored by the Environmental Controller: Degree to which the impact can be mitigated: Medium The EMPr must be enforced and manifored by the Environmental Controller: The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction activities to be clearly restricted to demarcated construction material must be stored in areas designated by | | Highly Unlikely |
| Cumulative impact prior to mitigation: Negligible | Degree to which the impact can be reversed: | Definite |
| Significance rating of impact prior to militigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Indirect impacts: | Insignificant |
| Degree to which the impact can be avoided: Low (Highly Likely) | Cumulative impact prior to mitigation: | Negligible |
| Degree to which the impact can be avoided: Degree to which the impact can be avoided: Low (Highly Likely) The EMPr must be enforced and monitored by the Environmental Conto Officer ("ECO"). The following measures should be implemented among others: | | Negligible |
| The EMPr must be enforced and monitored by the Environmental Confofficer ("ECO"). The following measures should be implemented among others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleane to the satisfaction of the ECO. • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular afterition to its appearance relative to the general landscape. • Construction only to take place during normal working hours. • Implementation of the EMPr. Degree to which the impact can be mitigated: Medium The EMPr must be enforced and monitored by the Environmental Confofficer ("ECO"). The following measures should be implemented among others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction area. • Construction material must be stored in areas designated by | | |
| Officer ("ECO"). The following measures should be implemented among others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has beer completed. The construction site must be cleared and cleane to the salisfaction of the ECO. • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. • Construction only to take place during normal working hours. Implementation of the EMPr. Degree to which the impact can be mitigated: Medium The EMPr must be enforced and monitored by the Environmental Cont Officer ("ECO"). The following measures should be implemented among others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction area. • Construction area. • Construction material must be stored in areas designated by | Degree to which the impact can be avoided: | . • |
| The EMPr must be enforced and monitored by the Environmental Cont Officer ("ECO"). The following measures should be implemented among others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by | Degree to which the impact can be managed: | Officer ("ECO"). The following measures should be implemented amongst others: The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take place during normal working hours. |
| Officer ("ECO"). The following measures should be implemented among others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by | Degree to which the impact can be mitigated: | |
| damage natural vegetation. • The contractor must ensure that all structures, equipment, | Proposed mitigation: | Officer ("ECO"). The following measures should be implemented amongst others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. |

| | construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take during normal working hours. Implementation of the EMPr. |
|---|---|
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Negligible |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) OPERATIONAL PHASE | Negligible |
| OPERATIONAL PHASE | Due to the site location and nature of the activity, the activity is not |
| Potential impact and risk: | expected to have any impacts on ecological or biodiversity aspects during the operational phase. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 2: | Tree Mast (25m in height) |
|--|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Noise Low-negative |
| Nature of impact: | Noise impact from machinery on the property and neighbouring residential properties during construction. |

| L Extent and duration of impacts | Local Duration of construction phase |
|---|--|
| Extent and duration of impact: | Local, Duration of construction phase Localised noise disturbance on site |
| Consequence of impact or risk: Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable | |
| loss of resources: | Negligible |
| Degree to which the impact can be reversed: | Definite |
| Indirect impacts: | Slight increase in localised ambient noise levels (negligible) |
| Cumulative impact prior to mitigation: | Lo-negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium – Low negative |
| Degree to which the impact can be avoided: | Medium |
| Degree to which the impact can be managed: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low - negative |
| Significance rating of impact after mitigation | Low - negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - negative |
| OPERATIONAL PHASE | |
| | The matter to make a manager of the former and the former and the former of the former |
| Potential impact and risk: | The activity is not expected to have any noise impacts during the operational phase. |
| Nature of impact: | |
| Nature of impact: Extent and duration of impact: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be managed: Degree to which the impact can be mitigated: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE | operational phase. The project as proposed does not require 'decommissioning' or 'closure', |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE Potential impact and risk: Nature of impact: Extent and duration of impact: | operational phase. The project as proposed does not require 'decommissioning' or 'closure', |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE Potential impact and risk: Nature of impact: Extent and duration of impact: Consequence of impact or risk: | operational phase. The project as proposed does not require 'decommissioning' or 'closure', |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE Potential impact and risk: Nature of impact: Extent and duration of impact: | operational phase. The project as proposed does not require 'decommissioning' or 'closure', |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE Potential impact and risk: Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable | operational phase. The project as proposed does not require 'decommissioning' or 'closure', |
| Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE Potential impact and risk: Nature of impact: Extent and duration of impact: Consequence of impact or risk: Probability of occurrence: Degree to which the impact may cause irreplaceable loss of resources: | operational phase. The project as proposed does not require 'decommissioning' or 'closure', |

| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
|---|--|
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 2: | Tree Mast (25m in height) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | <u> </u> |
| Potential impact and risk: | Visual impact: High-Medium negative. The development of the mast will have a visual impact because of the height of the mast (25m in height), and is located within an agricultural area of Dal Josafat, Paarl. |
| Nature of impact: | Unsightly views due to construction site |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Localised visual disturbance on site |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | Negligible |
| Degree to which the impact can be reversed: | Low |
| Indirect impacts: | Low |
| Cumulative impact prior to mitigation: | Low-Medium negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | High - Medium - negative |
| Degree to which the impact can be avoided: | Medium |
| Degree to which the impact can be managed: | Visual impact mitigation measures will be dealt with in the Environmental Management Programme ("EMPr"). The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. • Construction only to take place during normal working hours. • Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Probable |
| Proposed mitigation: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Residual impacts: | Very Low-negative |
| Cumulative impact post mitigation: | Low - negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium-Low negative |
| OPERATIONAL PHASE | Visual important AA alium na arakina |
| Potential impact and risk: | Visual impact: Medium-negative |

| Nature of impact: | The development of the mast will most probably have a visual impact because of the height of the mast (25m in height) located within an agricultural area of Dal Josafat, Paarl. |
|---|--|
| Extent and duration of impact: | Local, Permanent |
| Consequence of impact or risk: | Low-Medium negative |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | Low - negative |
| Degree to which the impact can be reversed: | Very Likely |
| Indirect impacts: | Negligible (Possibly during the harvesting season and holiday season). |
| Cumulative impact prior to mitigation: | Medium - negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - negative |
| Degree to which the impact can be avoided: | Highly Unlikely (Low) |
| Degree to which the impact can be managed: | Medium |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | Restrict the height of the mast to only 25m; Construct a lattice mast; and Implementation of the EMPr. |
| Residual impacts: | Very Low - negative |
| Cumulative impact post mitigation: | Very Low - negative |
| Significance rating of impact after mitigation | Low - negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| DECOMMISSIONING AND CLOSURE PHASE | The project as proposed does not require 'decommissioning' or 'closure', |
| Potential impact and risk: | as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 2: | Tree Mast (25m in height) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Socio-Economic (Low - Positive) |
| Nature of impact: | Temporary jobs will be created in the construction industry during the construction phase. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Low - Positive (temporary job creation) |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | N/A. This is a positive impact |
| Degree to which the impact can be reversed: | N/A. This is a positive impact |
| Indirect impacts: | Very - Low - Positive (contribute to temporary construction jobs). |
| Cumulative impact prior to mitigation: | Low - Positive |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive |
| Degree to which the impact can be avoided: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. |
| Degree to which the impact can be managed: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. |

| Degree to which the impact can be mitigated: | N/A. This is a positive impact. Temporary jobs will be created during the |
|---|--|
| | construction phase. No mitigation measures required. N/A. This is a positive impact. Temporary jobs will be created during the |
| Proposed mitigation: | construction phase. No mitigation measures required. |
| Residual impacts: | Low – Positive (Temporary jobs to be created during the construction phase). |
| Cumulative impact post mitigation: | Low – Positive |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive |
| OPERATIONAL PHASE | |
| Potential impact and risk: | Socio-economic aspect (Medium – Positive) |
| Nature of impact: | The proposed activity will increase the coverage of telecommunications services, including providing a more reliable and wider coverage. The proposed mast will have a positive impact on the socio-economics of the surrounding area as it will provide communication users with the option of faster internet coverage, cheaper cellular rates and available, stable network coverage which could be critical in the case of an emergency. |
| Extent and duration of impact: | Regional, Long-term |
| Consequence of impact or risk: | Please see above. The activity will increase the cellular network coverage within the area. Medium – Positive |
| Probability of occurrence: | Highly Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | N/A. Unlikely to cause any loss of resources. This is a positive impact. |
| Degree to which the impact can be reversed: | N/A. This is a positive impact. |
| Indirect impacts: | Low – Positive indirect impacts associated with the activity. Improved mobile network coverage within the surrounding area. |
| Cumulative impact prior to mitigation: | Medium - Positive |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive |
| Degree to which the impact can be avoided: | N/A. This is a positive impact that will improve the cellular network coverage within the surrounding area. |
| Degree to which the impact can be managed: | N/A. This is a positive impact. |
| Degree to which the impact can be mitigated: | N/A. This is positive impact. |
| Proposed mitigation: | N/A. This is a positive impact. No mitigation measures required. |
| Residual impacts: | Low - Positive |
| Cumulative impact post mitigation: | Low - Positive |
| Significance rating of impact after mitigation | Low - Positive |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | row - rosilive |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 2: | Tree Mast (25m in height) |
|--|---|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have an impact on heritage and cultural-historic aspects. |
| Nature of impact: | The loss of heritage, cultural or historic aspects during construction. |

| Extent and duration of impact: | Local, Duration of construction phase |
|---|---|
| Consequence of impact or risk: | Medium - Negative |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Low |
| Degree to which the impact can be reversed: | Medium |
| Indirect impacts: | Very – Low Negative |
| Cumulative impact prior to mitigation: | Low - Negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - Negative |
| Degree to which the impact can be avoided: | Medium (Likely) |
| Degree to which the impact can be managed: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| | • |
| Degree to which the impact can be mitigated: Proposed mitigation: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low - Negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Negative |
| OPERATIONAL PHASE | I., |
| Potential impact and risk: | Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have an impact on heritage and cultural-historic aspects. |
| Nature of impact: | The loss of heritage, cultural or historic aspects during the operational phase |
| Extent and duration of impact: | Local, Duration the operational phase |
| Consequence of impact or risk: | Medium - Negative |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Low |
| Degree to which the impact can be reversed: | Medium |
| Indirect impacts: | Very – Low Negative |
| Cumulative impact prior to mitigation: | Low - Negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - Negative |
| Degree to which the impact can be avoided: | Medium (Likely) |
| Degree to which the impact can be managed: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must |

| | immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
|---|---|
| Degree to which the impact can be mitigated: | Medium (Likely) |
| Proposed mitigation: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low – Negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low – Negative |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Residual Impacis. | |
| Cumulative impact post mitigation: Significance rating of impact after mitigation | |

| Alternative 2: | Tree Mast (25m in height) |
|---|---|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Ecological aspect |
| Nature of impact: | Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects. The proposed site is not located within a Critical Biodiversity Area ("CBA") or Ecological Support Area ("ESA") and is totally transformed from its natural state due to past development activities on the property. The site contains some patches of kikuyu grass and is located adjacent a sports field. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Negligible |
| Probability of occurrence: | Highly Unlikely |
| Degree to which the impact may cause irreplaceable loss of resources: | Highly Unlikely |
| Degree to which the impact can be reversed: | Definite |

| Indirect impacts: | Insignificant |
|---|---|
| Cumulative impact prior to mitigation: | Negligible |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Negligible |
| Degree to which the impact can be avoided: | Low (Highly Likely) |
| Degree to which the impact can be managed: | The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. • Construction only to take place during normal working hours. • Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | Officer ("ECO"). The following measures should be implemented amongst others: The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take during normal working hours. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Negligible |
| Significance rating of impact after mitigation | |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | Negligible |
| Potential impact and risk: | Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects during the operational phase. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |

| Indirect impacts: | | |
|---|--|--|
| • | | |
| Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation | | |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | | |
| Degree to which the impact can be avoided: | | |
| Degree to which the impact can be managed: | | |
| Degree to which the impact can be mitigated: | | |
| Proposed mitigation: | | |
| Residual impacts: | | |
| Cumulative impact post mitigation: | | |
| Significance rating of impact after mitigation | | |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | | |
| DECOMMISSIONING AND CLOSURE PHASE | | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. | |
| Nature of impact: | | |
| Extent and duration of impact: | | |
| Consequence of impact or risk: | | |
| Probability of occurrence: | | |
| Degree to which the impact may cause irreplaceable loss of resources: | | |
| Degree to which the impact can be reversed: | | |
| Indirect impacts: | | |
| Cumulative impact prior to mitigation: | | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | | |
| Degree to which the impact can be avoided: | | |
| Degree to which the impact can be managed: | | |
| Degree to which the impact can be mitigated: | | |
| Proposed mitigation: | | |
| Residual impacts: | | |
| Cumulative impact post mitigation: | | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | | |

| Alternative 3: | Monopole Mast (25m in height) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Noise Low-negative |
| Nature of impact: | Noise impact from machinery on the property and neighbouring residential properties during construction. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Localised noise disturbance on the site |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Negligible |
| Degree to which the impact can be reversed: | Definite |
| Indirect impacts: | Slight increase in localised ambient noise levels (negligible) |
| Cumulative impact prior to mitigation: | Low-negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - Low negative |
| Degree to which the impact can be avoided: | Medium |
| Degree to which the impact can be managed: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | The following measures should be implemented amongst others: • The Contractor shall endeavour to keep noise generating activities to a minimum. |

| | Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
|---|---|
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low - negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - negative |
| OPERATIONAL PHASE | |
| Potential impact and risk: | The activity is not expected to have any noise impacts during the operational phase. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable | |
| loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 3: | Monopole Mast (25m in height) |
|---------------------------------------|---|
| PLANNING, DESIGN AND DEVELOPMENT PHAS | SE |
| Potential impact and risk: | Visual impact: High-Medium negative. The development of the mast will have a visual impact because of the height of the mast (25m in height), and is located within an agricultural area of Dal Josafat, Paarl. |
| Nature of impact: | Unsightly views due to construction site |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Localised visual disturbance on site |
| Probability of occurrence: | Definite |

| Degree to which the impact may cause irreplaceable loss of resources: | Negligible |
|---|--|
| Degree to which the impact can be reversed: | Low |
| Indirect impacts: | Low |
| Cumulative impact prior to mitigation: | Low-Medium negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | High-Medium negative |
| Degree to which the impact can be avoided: | Medium |
| Degree to which the impact can be managed: | Visual impact mitigation measures will be dealt with in the Environmental Management Programme ("EMPr"). The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. • Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. • Construction only to take place during normal working hours. • Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Probable |
| Proposed mitigation: | The following measures should be implemented amongst others: The Contractor shall endeavour to keep noise generating activities to a minimum. Construction only to take place during normal working hours. No construction on Sundays. Compliance with the appropriate legislation with respect to noise shall be mandatory. Implementation of the EMPr. |
| Residual impacts: | Very Low-negative |
| Cumulative impact post mitigation: | Medium - Low negative |
| Significance rating of impact after mitigation | Medioni - Low negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) OPERATIONAL PHASE | Low - negative |
| Potential impact and risk: | Visual impact: Medium-negative |
| Nature of impact: | The development of the mast will most probably have a visual impact because of the height of the mast (25m in height) located within an agricultural area of Dal Josafat, Paarl. |
| Extent and duration of impact: | Local, Permanent |
| Consequence of impact or risk: | Low-Medium negative |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | Low - negative |
| Degree to which the impact can be reversed: | Very Likely |
| Indirect impacts: | Negligible (Possibly during the harvesting season and holiday season). |
| Cumulative impact prior to mitigation: | Medium - negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - negative |
| Degree to which the impact can be avoided: | Highly Unlikely (Low) |
| Degree to which the impact can be managed: | Medium |
| Degree to which the impact can be mitigated: | Medium |
| Proposed mitigation: | Restrict the height of the mast to only 25m; Construct a lattice mast; and Implementation of the EMPr. |
| Residual impacts: | Very Low - negative |
| Cumulative impact post mitigation: | Very Low - negative |
| Significance rating of impact after mitigation | |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - negative |

| DECOMMISSIONING AND CLOSURE PHASE | |
|---|--|
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 3: | Monopole Mast (25m in height) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Socio-Economic (Low - Positive) |
| Nature of impact: | Temporary jobs will be created in the construction industry during the construction phase. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Low - Positive (temporary job creation) |
| Probability of occurrence: | Definite |
| Degree to which the impact may cause irreplaceable loss of resources: | N/A. This is a positive impact |
| Degree to which the impact can be reversed: | N/A. This is a positive impact |
| Indirect impacts: | Very - Low - Positive (contribute to temporary construction jobs). |
| Cumulative impact prior to mitigation: | Low - Positive |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low – Positive |
| Degree to which the impact can be avoided: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. |
| Degree to which the impact can be managed: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. |
| Degree to which the impact can be mitigated: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. |
| Proposed mitigation: | N/A. This is a positive impact. Temporary jobs will be created during the construction phase. No mitigation measures required. |
| Residual impacts: | Low – Positive (Temporary jobs to be created during the construction phase). |
| Cumulative impact post mitigation: | Low - Positive |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low – Positive |
| OPERATIONAL PHASE | |
| Potential impact and risk: | Socio-economic aspect (Medium – Positive) |
| Nature of impact: | The proposed activity will increase the coverage of telecommunications services, including providing a more reliable and wider coverage. The proposed mast will have a positive impact on the socio-economics of the surrounding area as it will provide communication users with the option of faster internet coverage, cheaper cellular rates and available, stable network coverage which could be critical in the case of an emergency. |
| Extent and duration of impact: | Regional, Long-term |
| Consequence of impact or risk: | Please see above. The activity will increase the cellular network coverage within the area. Medium – Positive |
| Probability of occurrence: | Highly Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | N/A. Unlikely to cause any loss of resources. This is a positive impact. |
| Degree to which the impact can be reversed: | N/A. This is a positive impact. |

| Indirect impacts: | Low – Positive indirect impacts associated with the activity. Improved mobile network coverage within the surrounding area. |
|---|--|
| Cumulative impact prior to mitigation: | Medium - Positive |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive |
| Degree to which the impact can be avoided: | N/A. This is a positive impact that will improve the cellular network coverage within the surrounding area. |
| Degree to which the impact can be managed: | N/A. This is a positive impact. |
| Degree to which the impact can be mitigated: | N/A. This is positive impact. |
| Proposed mitigation: | N/A. This is a positive impact. No mitigation measures required. |
| Residual impacts: | Low - Positive |
| Cumulative impact post mitigation: | Low - Positive |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low - Positive |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 3: | Monopole Mast (25m in height) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have an impact on heritage and cultural-historic aspects. |
| Nature of impact: | The loss of heritage, cultural or historic aspects during the operational phase |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Medium - Negative |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Low |
| Degree to which the impact can be reversed: | Medium |
| Indirect impacts: | Very – Low Negative |
| Cumulative impact prior to mitigation: | Low - Negative |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Medium - Negative |
| Degree to which the impact can be avoided: | Medium (Likely) |
| Degree to which the impact can be managed: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage |

| | Resources Agency and HWC. The ECO and Engineer are also to be informed. |
|---|---|
| Degree to which the impact can be mitigated. | Implementation of the EMPr. Adadium (Litable) |
| Degree to which the impact can be mitigated: Proposed mitigation: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low - Negative |
| Significance rating of impact after mitigation | <u> </u> |
| (e.g. Low, Medium, Medium-High, High, or Very-High) | Low – Negative |
| OPERATIONAL PHASE | |
| Potential impact and risk: | Heritage and Cultural-Historic Aspects – Due to the site location and nature of the activity, the activity is expected to have an impact on heritage and cultural-historic aspects. The loss of heritage, cultural or historic aspects during the operational |
| Nature of impact: | phase |
| Extent and duration of impact: | Local, Duration the operational phase |
| Consequence of impact or risk: | Medium - Negative |
| Probability of occurrence: | Probable |
| Degree to which the impact may cause irreplaceable loss of resources: | Low |
| Degree to which the impact can be reversed: | Medium |
| Indirect impacts: | Very – Low Negative |
| Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (a.g., Low, Modium, Modium, High, High, or Von High) | Low - Negative Medium - Negative |
| (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: | Medium (Likely) |
| Degree to which the impact can be managed: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. Implementation of the EMPr. |
| Degree to which the impact can be mitigated: | Medium (Likely) |
| Proposed mitigation: | If any archaeological remains (including but not limited to fossil bones and fossil shells, coins, indigenous and/or colonial ceramics, any articles of value or antiquity, stone artefacts and bone remains, structures and other built features, rock art and rock engravings) are discovered during construction they must immediately be reported to Heritage Western Cape (HWC) and must not be disturbed further until the necessary approval has been obtained from HWC. Should any human remains/burial or archaeological material be disturbed, exposed or uncovered during construction, these should immediately be reported to the South African Heritage Resources Agency and HWC. The ECO and Engineer are also to be informed. |

| | Implementation of the EMPr. |
|---|--|
| Residual impacts: | Negligible |
| Cumulative impact post mitigation: | Low – Negative |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Low – Negative |
| DECOMMISSIONING AND CLOSURE PHASE | |
| Potential impact and risk: | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact can be reversed: | |
| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |

| Alternative 3: | Monopole Mast (25m in height) |
|---|--|
| PLANNING, DESIGN AND DEVELOPMENT PHASE | |
| Potential impact and risk: | Ecological aspect |
| Nature of impact: | Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects. The proposed site is not located within a Critical Biodiversity Area ("CBA") or Ecological Support Area ("ESA") and is totally transformed from its natural state due to past development activities on the property. The site contains some patches of kikuyu grass and is located adjacent a sports field. |
| Extent and duration of impact: | Local, Duration of construction phase |
| Consequence of impact or risk: | Negligible |
| Probability of occurrence: | Highly Unlikely |
| Degree to which the impact may cause irreplaceable loss of resources: | Highly Unlikely |
| Degree to which the impact can be reversed: | Definite |
| Indirect impacts: | Insignificant |
| Cumulative impact prior to mitigation: | Negligible |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | Negligible |
| Degree to which the impact can be avoided: | Low (Highly Likely) |
| Degree to which the impact can be managed: | The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: • The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. • No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. • Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. • The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. |

| Degree to which the impact can be mitigated: Proposed mitigation: | Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take place during normal working hours. Implementation of the EMPr. Medium The EMPr must be enforced and monitored by the Environmental Control Officer ("ECO"). The following measures should be implemented amongst others: The contractor shall restrict all his activities, materials, equipment and personnel to within the area specified/demarcated. No further encroachment onto the degraded ESA on site, construction activities to be clearly restricted to demarcated construction area. Construction material must be stored in areas designated by the site agent and in a neat and orderly manner and must not damage natural vegetation. The contractor must ensure that all structures, equipment, materials and facilities used or created on site for or during construction activities are removed once the project has been completed. The construction site must be cleared and cleaned to the satisfaction of the ECO. Immediately after the demolishing of the campsite, the contractor shall restore the site to its original state, paying particular attention to its appearance relative to the general landscape. Construction only to take during normal working hours. Implementation of the EMPr. |
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| Residual impacts: | Negligible |
| Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) OPERATIONAL PHASE | Negligible Negligible |
| Potential impact and risk: | Due to the site location and nature of the activity, the activity is not expected to have any impacts on ecological or biodiversity aspects during the operational phase. |
| Nature of impact: | |
| Extent and duration of impact: | |
| Consequence of impact or risk: | |
| Probability of occurrence: | |
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| Degree to which the impact may cause irreplaceable | |
| Degree to which the impact may cause irreplaceable loss of resources: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation | |
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| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: | |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: | |
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| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
| Degree to which the impact may cause irreplaceable loss of resources: Degree to which the impact can be reversed: Indirect impacts: Cumulative impact prior to mitigation: Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) Degree to which the impact can be avoided: Degree to which the impact can be managed: Degree to which the impact can be mitigated: Proposed mitigation: Residual impacts: Cumulative impact post mitigation: Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) DECOMMISSIONING AND CLOSURE PHASE | The project as proposed does not require 'decommissioning' or 'closure', as such the potential impacts thereof is considered irrelevant. |
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| Degree to which the impact can be reversed: | |
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| Indirect impacts: | |
| Cumulative impact prior to mitigation: | |
| Significance rating of impact prior to mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |
| Degree to which the impact can be avoided: | |
| Degree to which the impact can be managed: | |
| Degree to which the impact can be mitigated: | |
| Proposed mitigation: | |
| Residual impacts: | |
| Cumulative impact post mitigation: | |
| Significance rating of impact after mitigation (e.g. Low, Medium, Medium-High, High, or Very-High) | |