

Appendix J: Assessment of each impact

[illegible]

Proposed mitigation:	A dedicated search is to be conducted by a butterfly expert to confirm the presence or absence of Knysna Pale Copper Butterflies in October, November, and/or December or according to the discretion of the expert. Should any butterflies be found, the recommendations and mitigation measures as laid out by the butterfly expert are to supersede what is laid out in this report as it pertains to the butterfly SCC. Prior to construction, the disturbance footprint of the development should be clearly defined and demarcated to prevent unnecessary additional damage. Where necessary, ensure soft landscaping is used as opposed to hard landscaping. Use indigenous plants in the	A dedicated search is to be conducted by a butterfly expert to confirm the presence or absence of Knysna Pale Copper Butterflies in October, November, and/or December or according to the discretion of the expert. Should any butterflies be found, the recommendations and mitigation measures as laid out by the butterfly expert are to supersede what is laid out in this report as it pertains to the butterfly SCC. Prior to construction, the disturbance footprint of the development should be clearly defined and demarcated to prevent unnecessary additional damage. Where necessary, ensure soft landscaping is used as opposed to hard landscaping. Use indigenous plants in the	A dedicated search is to be conducted by a butterfly expert to confirm the presence or absence of Knysna Pale Copper Butterflies in October, November, and/or December or according to the discretion of the expert. Should any butterflies be found, the recommendations and mitigation measures as laid out by the butterfly expert are to supersede what is laid out in this report as it pertains to the butterfly SCC. Prior to construction, the disturbance footprint of the development should be clearly defined and demarcated to prevent unnecessary additional damage. Where necessary, ensure soft landscaping is used as opposed to hard landscaping. Use indigenous plants in the	None	None	None	Not applicable
Residual impacts: Relating to Habitat Loss	Medium	Medium	Low	None	None	None	Not applicable
Cumulative impact post mitigation:	Very Low -	Very Low -	Very Low -	Very Low -	Very Low -	Very Low -	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Moderate Negative (-77)	Moderate Negative (-77)	Moderate Negative (-70)	Low -	Low -	Low -	Negligible Negative (-3)

Potential impact and risk:	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP	Impact of Planning for the Inclusion of a Habitat Corridor Along the Southern Boundary of the Property in the SDP
Nature of impact:	SDP was revised to indicate protected trees that are to be retained.Despite consideration of protected trees, both layouts A & B have a very similar footprint.	SDP was revised to indicate protected trees that are to be retained.Despite consideration of protected trees, both layouts A & B have a very similar footprint.	SDP was revised to indicate protected trees that are to be retained / removed and is considered the preferred "Option C" layout.	Not applicable	Not applicable	Not applicable	No construction and no disturbance
Extent and duration of impact:	Permanent	Permanent	Permanent	Not applicable	Not applicable	Not applicable	Very Limited
Consequence of impact or risk:	the incorporation of protected trees into the layout to conserve the species as well as provide additional ecological habitat areas aims to provide habitat for wildlife movement and dispersal but also creates opportunities for replanting rescued plants during the construction phase. It is recommended that this ecological corridor be incorporated into the planning and final layout.	the incorporation of protected trees into the layout to conserve the species as well as provide additional ecological habitat areas aims to provide habitat for wildlife movement and dispersal but also creates opportunities for replanting rescued plants during the construction phase. It is recommended that this ecological corridor be incorporated into the planning and final layout.	the incorporation of protected trees into the layout to conserve the species as well as provide additional ecological habitat areas aims to provide habitat for wildlife movement and dispersal but also creates opportunities for replanting rescued plants during the construction phase. It is recommended that this ecological corridor be incorporated into the planning and final layout.	Not applicable	Not applicable	Not applicable	Non development of the site entail than the site stay as is. Management of the site and corridor will rely on the local municipality to remove alien weeds and prevent vagrants from establishing illegal squat camps within the site and corridor.
Probability of occurrence:	Certain	Certain	Certain	Not applicable	Not applicable	Not applicable	Highly unlikely
Degree to which the impact may cause irreplaceable loss of resources:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be reversed:	Low	Low	Low	Not applicable	Not applicable	Low	Not applicable
Indirect impacts:	None	None	None	Not applicable	Not applicable	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium +	Medium +	High +	Not applicable	Not applicable	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Moderate Negative (-77)	Moderate Negative (-77)	Minor Negative (-70)	Not applicable	Not applicable	Not applicable	Negligible Negative (-3)
Degree to which the impact can be avoided:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Proposed mitigation:	A dedicated search is to be conducted by a butterfly expert to confirm the presence or absence of Knysna Pale Copper Butterflies in October, November, and/or December or according to the discretion of the expert. Should any butterflies be found, the recommendations and mitigation measures as laid out by the butterfly expert are to supersede what is laid out in this report as it pertains to the butterfly SCC. Prior to construction, the disturbance footprint of the development should be clearly defined and demarcated to prevent unnecessary additional damage. Where necessary, ensure soft landscaping is used as opposed to hard landscaping. Use indigenous plants in the	A dedicated search is to be conducted by a butterfly expert to confirm the presence or absence of Knysna Pale Copper Butterflies in October, November, and/or December or according to the discretion of the expert. Should any butterflies be found, the recommendations and mitigation measures as laid out by the butterfly expert are to supersede what is laid out in this report as it pertains to the butterfly SCC. Prior to construction, the disturbance footprint of the development should be clearly defined and demarcated to prevent unnecessary additional damage. Where necessary, ensure soft landscaping is used as opposed to hard landscaping. Use indigenous plants in the	A dedicated search is to be conducted by a butterfly expert to confirm the presence or absence of Knysna Pale Copper Butterflies in October, November, and/or December or according to the discretion of the expert. Should any butterflies be found, the recommendations and mitigation measures as laid out by the butterfly expert are to supersede what is laid out in this report as it pertains to the butterfly SCC. Prior to construction, the disturbance footprint of the development should be clearly defined and demarcated to prevent unnecessary additional damage. Where necessary, ensure soft landscaping is used as opposed to hard landscaping. Use indigenous plants in the	Not applicable	Not applicable	Not applicable	Non development of the site entail than the site stay as is. Management of the site and corridor will rely on the local municipality to remove alien weeds and prevent vagrants from establishing illegal squat camps within the site and corridor.

Residual impacts: Link to corridor	Low +	Low +	Medium +	Not applicable	Not applicable	Not applicable	Not applicable
Cumulative impact post mitigation:	Medium +	Medium +	High + (include corridor that make provision for species	Not applicable	Not applicable	Not applicable	None
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	N/A - (the corridor is the "with mitigation" scenario in the Layout and Design Phase)	N/A - (the corridor is the "with mitigation" scenario in the Layout and Design Phase)	N/A - (the corridor is the "with mitigation" scenario in the Layout and Design Phase)	Not applicable	Not applicable	Not applicable	Negligible Negative (-3)

Potential impact and risk:	Loss of cultural heritage or paleontological artefacts	Loss of cultural heritage or paleontological artefacts	Loss of cultural heritage or paleontological artefacts	Loss of cultural heritage or paleontological artefacts	Loss of cultural heritage or paleontological artefacts	Loss of cultural heritage or paleontological artefacts	Loss of cultural heritage or paleontological artefacts
Nature of impact:	Loss or destruction of fossil finds or heritage sites	Loss or destruction of fossil finds or heritage sites	Loss or destruction of fossil finds or heritage sites	Not applicable	Not applicable	Not applicable	No construction and no disturbance
Extent and duration of impact:	Permanent	Permanent	Permanent	Not applicable	Not applicable	Not applicable	Status quo
Consequence of impact or risk:	Potential loss of fossil material, or buried archaeological material.	Potential loss of fossil material, or buried archaeological material.	Potential loss of fossil material, or buried archaeological material.	Not applicable	Not applicable	Not applicable	Not applicable
Probability of occurrence:	Low	Low	Low	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Low	Low	Low	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be reversed:	None	None	None	Not applicable	Not applicable	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	Not applicable	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Low	Low	Low	Not applicable	Not applicable	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Low -	Low -	Low -	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Proposed mitigation:	The protocol for finds of bones, the Fossil Finds Procedure (FFP), as included in the Environmental Management Plan (EMP) for the project must be implemented. Basically if fossil shells or bones are uncovered during the Construction Phase, temporarily stop work at the spot and report to Heritage Western Cape.	The protocol for finds of bones, the Fossil Finds Procedure (FFP), as included in the Environmental Management Plan (EMP) for the project must be implemented. Basically if fossil shells or bones are uncovered during the Construction Phase, temporarily stop work at the spot and report to Heritage Western Cape.	The protocol for finds of bones, the Fossil Finds Procedure (FFP), as included in the Environmental Management Plan (EMP) for the project must be implemented. Basically if fossil shells or bones are uncovered during the Construction Phase, temporarily stop work at the spot and report to Heritage Western Cape.	Not applicable	Not applicable	Not applicable	Not applicable
Residual impacts:	None	None	None	Not applicable	Not applicable	Not applicable	Not applicable
Cumulative impact post mitigation:	Low -	Low -	Low -	Not applicable	Not applicable	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Very Low -	Very Low -	Very Low -	Not applicable	Not applicable	Not applicable	Not applicable

Potential impact and risk:	Harm/Death of fauna and soil-dwelling mammal SCC, due to construction related activities such as earthworks.	Harm/Death of fauna and soil-dwelling mammal SCC, due to construction related activities such as earthworks.	Harm/Death of fauna and soil-dwelling mammal SCC, due to construction related activities such as earthworks.	Harm/Death of fauna, particularly soil-dwelling mammal SCC, due to construction related activities such as earthworks.	Harm/Death of fauna, particularly soil-dwelling mammal SCC, due to construction related activities such as earthworks.	Harm/Death of fauna, particularly soil-dwelling mammal SCC, due to construction related activities such as earthworks.	Harm/Death of fauna and soil-dwelling mammal SCC, due to construction related activities such as earthworks.
Nature of impact:	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Not applicable	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Not applicable	No construction and no disturbance
Extent and duration of impact:	Short term	Short term	Short term	Not applicable	Permanent	Not applicable	Status quo
Consequence of impact or risk:	Death of certain SCC species that are ground dwelling	Death of certain SCC species that are ground dwelling	Death of certain SCC species that are ground dwelling	Not applicable	Death of certain SCC species that are ground dwelling	Not applicable	Not applicable
Probability of occurrence:	Almost certain / Highly probable	Almost certain / Highly probable	Almost certain / Highly probable	Not applicable	Certain / definite	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Medium	Medium	Medium	Not applicable	High	Not applicable	Not applicable
Degree to which the impact can be reversed:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	None	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative	Minor negative	Minor negative	Not applicable	Medium -	Not applicable	Not applicable
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Not applicable	Please refer to the attached EMP in Appendix H.	Not applicable	Not applicable
Residual impacts: Loss of Species	Low	Low	Low	Not applicable	None	Not applicable	Not applicable
Cumulative impact post mitigation:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible negative	Negligible negative	Negligible negative	Not applicable	Low -	Not applicable	Not applicable

Potential impact and risk:	Disturbance of Knysna Warbler SCC (<i>Bradypterus sylvaticus</i>) flagged as likely to occur at the site during breeding season.	Disturbance of Knysna Warbler SCC (<i>Bradypterus sylvaticus</i>) flagged as likely to occur at the site during breeding season.	Disturbance of Knysna Warbler SCC (<i>Bradypterus sylvaticus</i>) flagged as likely to occur at the site during breeding season.				Disturbance of Knysna Warbler SCC (<i>Bradypterus sylvaticus</i>) flagged as likely to occur at the site during breeding season.
Nature of impact:	Adult individuals of the SCC are able to disperse and are likely to move to adjacent gardens or further off to other natural areas. Nests and eggs are at risk. Disturbance during the breeding season may have an effect on the local population of the SCC.	Adult individuals of the SCC are able to disperse and are likely to move to adjacent gardens or further off to other natural areas. Nests and eggs are at risk. Disturbance during the breeding season may have an effect on the local population of the SCC.	Adult individuals of the SCC are able to disperse and are likely to move to adjacent gardens or further off to other natural areas. Nests and eggs are at risk. Disturbance during the breeding season may have an effect on the local population of the SCC.	Not applicable	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Not applicable	No construction and no disturbance
Extent and duration of impact:	Short term	Short term	Short term	Not applicable	Permanent	Not applicable	Short term
Consequence of impact or risk:	Construction related noise can result in SCC abandoning nests, eggs, or chicks if breeding has already begun when construction commences	Construction related noise can result in SCC abandoning nests, eggs, or chicks if breeding has already begun when construction commences	Construction related noise can result in SCC abandoning nests, eggs, or chicks if breeding has already begun when construction commences	Not applicable	Death of certain SCC species that are ground dwelling	Not applicable	Not applicable
Probability of occurrence:	Certain / definite	Certain / definite	Certain / definite	Not applicable	Certain / definite	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Medium	Medium	Medium	Not applicable	High	Not applicable	Not applicable
Degree to which the impact can be reversed:	High	High	High	Not applicable	Low	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	None	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Moderate negative	Moderate negative	Moderate negative	Not applicable	Medium -	Not applicable	Not applicable
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Not applicable	Please refer to the attached EMP in Appendix H.	Not applicable	Not applicable
Residual impacts: Loss of Species	Medium	Medium	Medium	Not applicable	None	Not applicable	Not applicable
Cumulative impact post mitigation:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative	Minor negative	Minor negative	Not applicable	Low -	Not applicable	Not applicable

Potential impact and risk:	Loss of habitat for fauna, especially Knysna Pale Copper Butterfly (<i>Aloeides pallida littoralis</i>), within the footprint of the proposed development.	Loss of habitat for fauna, especially Knysna Pale Copper Butterfly (<i>Aloeides pallida littoralis</i>), within the footprint of the proposed development.	Loss of habitat for fauna, especially Knysna Pale Copper Butterfly (<i>Aloeides pallida littoralis</i>), within the footprint of the proposed development.				Loss of habitat for fauna, especially Knysna Pale Copper Butterfly (<i>Aloeides pallida littoralis</i>), within the footprint of the proposed development.
Nature of impact:	The proposed development will result in the complete loss of habitat on the effects on Knysna Pale Copper Butterfly which may not have refugia in the greater landscape due to the lack of suitable Hartenbos Dune Thicket within the typical flight radius of butterflies (up to 5km for some species)	The proposed development will result in the complete loss of habitat on the effects on Knysna Pale Copper Butterfly which may not have refugia in the greater landscape due to the lack of suitable Hartenbos Dune Thicket within the typical flight radius of butterflies (up to 5km for some species)	The proposed development will result in the complete loss of habitat on the effects on Knysna Pale Copper Butterfly which may not have refugia in the greater landscape due to the lack of suitable Hartenbos Dune Thicket within the typical flight radius of butterflies (up to 5km for some species)	Not applicable	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Not applicable	No construction and no disturbance
Extent and duration of impact:	Permanent	Permanent	Permanent	Not applicable	Permanent	Not applicable	Short term
Consequence of impact or risk:	Loss of suitable habitat for fauna to live, forage and breed.	Loss of suitable habitat for fauna to live, forage and breed.	Loss of suitable habitat for fauna to live, forage and breed.	Not applicable	Death of certain SCC species that are ground dwelling	Not applicable	Not applicable
Probability of occurrence:	Almost certain / Highly probable	Almost certain / Highly probable	Almost certain / Highly probable	Not applicable	Certain / definite	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Medium	Medium	Medium	Not applicable	High	Not applicable	Not applicable
Degree to which the impact can be reversed:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	None	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Moderate negative	Moderate negative	Moderate negative	Not applicable	Medium -	Not applicable	Not applicable
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Not applicable	Please refer to the attached EMP in Appendix H.	Not applicable	Not applicable
Residual impacts: Loss of Species	Medium	Medium	Medium	Not applicable	None	Not applicable	Not applicable
Cumulative impact post mitigation:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative	Minor negative	Minor negative	Not applicable	Low -	Not applicable	Not applicable

Potential impact and risk:	Habitat and fauna negatively affected by the management of the construction site (i.e., staff, stockpiles, and equipment)	Habitat and fauna negatively affected by the management of the construction site (i.e., staff, stockpiles, and equipment)	Habitat and fauna negatively affected by the management of the construction site (i.e., staff, stockpiles, and equipment)				Habitat and fauna negatively affected by the management of the construction site (i.e., staff, stockpiles, and equipment)
Nature of impact:	Loss of habitat or harm to fauna outside of designated construction areas and litter to natural environment	Loss of habitat or harm to fauna outside of designated construction areas and litter to natural environment	Loss of habitat or harm to fauna outside of designated construction areas and litter to natural environment	Not applicable	Fauna may occur on site and be killed or seriously harmed during construction related activities.	Not applicable	No construction and no disturbance
Extent and duration of impact:	Short term	Short term	Short term	Not applicable	Permanent	Not applicable	Not applicable
Consequence of impact or risk:	Loss of habitat & pollution	Loss of habitat & pollution	Loss of habitat & pollution	Not applicable	Death of certain SCC species that are ground dwelling	Not applicable	Not applicable
Probability of occurrence:	Almost certain / Highly probable	Almost certain / Highly probable	Almost certain / Highly probable	Not applicable	Certain / definite	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Low	Low	Low	Not applicable	High	Not applicable	Not applicable
Degree to which the impact can be reversed:	Medium	Medium	Medium	Not applicable	Low	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	None	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative	Minor negative	Minor negative	Not applicable	Medium -	Not applicable	Not applicable
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Not applicable	Please refer to the attached EMPr in Appendix H.	Not applicable	Not applicable
Residual impacts: Loss of Habitat	Low	Low	Low	Not applicable	None	Not applicable	Not applicable
Cumulative impact post mitigation:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible negative	Negligible negative	Negligible negative	Not applicable	Low -	Not applicable	Not applicable

Potential impact and risk:	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.	A loss of protected tree species (<i>Sidoxylon inerme inerme</i> & <i>Pittosporum viridiflorum</i>), and the VU SCC <i>Hermannia lavandulifolia</i> due to earthworks and other construction related activities.
Nature of impact:	The proposed development footprint is within Hartenbos Dune Thicket which includes two protected tree species, <i>Sidoxylon inerme</i> (Milkwood) and <i>Pittosporum viridiflorum</i> (Cheesewood). These trees are protected under the National Forests Act (No. 84 of 1998).	The proposed development footprint is within Hartenbos Dune Thicket which includes two protected tree species, <i>Sidoxylon inerme</i> (Milkwood) and <i>Pittosporum viridiflorum</i> (Cheesewood). These trees are protected under the National Forests Act (No. 84 of 1998).	The proposed development footprint is within Hartenbos Dune Thicket which includes two protected tree species, <i>Sidoxylon inerme</i> (Milkwood) and <i>Pittosporum viridiflorum</i> (Cheesewood). These trees are protected under the National Forests Act (No. 84 of 1998).	Not applicable	The proposed development footprint is within Hartenbos Dune Thicket which includes two protected tree species, <i>Sidoxylon inerme</i> (Milkwood) and <i>Pittosporum viridiflorum</i> (Cheesewood). These trees are protected under the National Forests Act (No. 84 of 1998).	Not applicable	No construction and no disturbance
Extent and duration of impact:	Permanent	Permanent	Permanent	Not applicable	Permanent	Not applicable	Status quo
Consequence of impact or risk:	Death of certain SCC species that are around dwelling	Death of certain SCC species that are around dwelling	Death of certain SCC species that are around dwelling	Not applicable	Death of certain SCC species that are around dwelling	Not applicable	Not applicable
Probability of occurrence:	Certain	Certain	Certain	Not applicable	Certain / definite	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Low (Milkwood, Cheesewood, and VU <i>Hermannia lavandulifolia</i> are all widespread species)	Low (Milkwood, Cheesewood, and VU <i>Hermannia lavandulifolia</i> are all widespread species)	Low (Milkwood, Cheesewood, and VU <i>Hermannia lavandulifolia</i> are all widespread species)	Not applicable	High	Not applicable	Not applicable
Degree to which the impact can be reversed:	Medium	Medium	Medium	Not applicable	Low	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	None	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Moderate Negative (-91)	Moderate Negative (-91)	Moderate Negative (-84)	Not applicable	Medium -	Not applicable	Negligible Negative (-3)
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Medium	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Low	Low	Medium	Not applicable	Low	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Not applicable	Please refer to the attached EMPr in Appendix H.	Not applicable	Not applicable
Residual impacts: Loss of Protected Tree Species	Low (Milkwood, Cheesewood, and VU <i>Hermannia lavandulifolia</i> are all widespread species)	Low (Milkwood, Cheesewood, and VU <i>Hermannia lavandulifolia</i> are all widespread species)	Low (Milkwood, Cheesewood, and VU <i>Hermannia lavandulifolia</i> are all widespread species)	Not applicable	None	Not applicable	Negligible Negative (-3)
Cumulative impact post mitigation:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative (-54)	Minor negative (-54)	Minor Negative (-45)	Not applicable	Low -	Not applicable	Not applicable

OPERATIONAL PHASE							
Potential impact and risk:	Conservation conflict between wildlife and residential use of the property	Conservation conflict between wildlife and residential use of the property	Conservation conflict between wildlife and residential use of the property	Conservation conflict between wildlife and residential use of the property	Conservation conflict between wildlife and residential use of the property	Conservation conflict between wildlife and residential use of the property	Conservation conflict between wildlife and residential use of the property
Nature of impact:	Some wild animals are attracted to human developments, usually due to the presence of a resource (most notably food) that has become available within the footprint of the development.	Some wild animals are attracted to human developments, usually due to the presence of a resource (most notably food) that has become available within the footprint of the development.	Some wild animals are attracted to human developments, usually due to the presence of a resource (most notably food) that has become available within the footprint of the development.	Not applicable	Some wild animals are attracted to human developments, usually due to the presence of a resource (most notably food) that has become available within the footprint of the development.	Not applicable	No development and no disturbance
Extent and duration of impact:	Long term	Long term	Long term	Not applicable	Limited	Not applicable	Status quo
Consequence of impact or risk:	Pets causing death/harm to indigenous wildlife and vice versa.Changes in natural foraging and movement patterns of fauna across habitats within the landscape due to the presence of a favourable resource (usually food) near the development.	Pets causing death/harm to indigenous wildlife and vice versa.Changes in natural foraging and movement patterns of fauna across habitats within the landscape due to the presence of a favourable resource (usually food) near the development.	Pets causing death/harm to indigenous wildlife and vice versa.Changes in natural foraging and movement patterns of fauna across habitats within the landscape due to the presence of a favourable resource (usually food) near the development.	Not applicable	Pets causing death/harm to indigenous wildlife and vice versa.Changes in natural foraging and movement patterns of fauna across habitats within the landscape due to the presence of a favourable resource (usually food) near the development.	Not applicable	Not applicable
Probability of occurrence:	Almost certain / Highly probable	Almost certain / Highly probable	Almost certain / Highly probable	Not applicable	Almost certain / Highly probable	Not applicable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be reversed:	Medium	Medium	Medium	Not applicable	Low	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	None	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Medium negative	Medium negative	Medium negative	Not applicable	Low -	Not applicable	Not applicable
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Low	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Medium	Medium	Medium	Not applicable	Low	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Not applicable	Please refer to the attached EMP in Appendix H.	Not applicable	Not applicable
Residual impacts: People Animal Conflicts	Low	Low	Low	Not applicable	None	Not applicable	Not applicable
Cumulative impact post mitigation:	Low	Low	Low	Not applicable	Low	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Negligible negative	Negligible negative	Negligible negative	Not applicable	Very Low -	Not applicable	Not applicable

Potential impact and risk:	Harm/Death to wildlife due to collisions with vehicles	Harm/Death to wildlife due to collisions with vehicles	Harm/Death to wildlife due to collisions with vehicles	Harm/Death to wildlife due to collisions with vehicles	Harm/Death to wildlife due to collisions with vehicles	Harm/Death to wildlife due to collisions with vehicles	Harm/Death to wildlife due to collisions with vehicles
Nature of impact:	All fauna run the risk of being seriously harmed or killed due to collisions with vehicles on road infrastructure.	All fauna run the risk of being seriously harmed or killed due to collisions with vehicles on road infrastructure.	All fauna run the risk of being seriously harmed or killed due to collisions with vehicles on road infrastructure.	All fauna run the risk of being seriously harmed or killed due to collisions with vehicles on road infrastructure.	All fauna run the risk of being seriously harmed or killed due to collisions with vehicles on road infrastructure.	All fauna run the risk of being seriously harmed or killed due to collisions with vehicles on road infrastructure.	No development and no disturbance
Extent and duration of impact:	Permanent	Permanent	Permanent	Limited	Limited	Limited	Status quo
Consequence of impact or risk:	Death/Harm to any animal species (small insects to larger mammals) as a result of collisions with vehicles, particularly animals with limited	Death/Harm to any animal species (small insects to larger mammals) as a result of collisions with vehicles, particularly animals with limited	Death/Harm to any animal species (small insects to larger mammals) as a result of collisions with vehicles, particularly animals with limited	Death/Harm to any animal species (small insects to larger mammals) as a result of collisions with vehicles, particularly animals with limited	Death/Harm to any animal species (small insects to larger mammals) as a result of collisions with vehicles, particularly animals with limited	Death/Harm to any animal species (small insects to larger mammals) as a result of collisions with vehicles, particularly animals with limited	Not applicable
Probability of occurrence:	Probable	Probable	Probable	Probable	Probable	Probable	Not applicable
Degree to which the impact may cause irreplaceable loss of resources:	Medium	Medium	Medium	Medium	Medium	Medium	Not applicable
Degree to which the impact can be reversed:	Medium	Medium	Medium	Medium	Medium	Medium	Not applicable
Indirect impacts:	None	None	None	None	None	None	Not applicable
Cumulative impact prior to mitigation:	Low	Low	Low	Low	Low	Low	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative	Minor negative	Minor negative	Low -	Low -	Low -	Not applicable
Degree to which the impact can be avoided:	Medium	Medium	Medium	Medium	Medium	Medium	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Medium	Medium	Medium	Not applicable
Degree to which the impact can be mitigated:	Medium	Medium	Medium	Medium	Medium	Medium	Not applicable
Proposed mitigation:	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Please refer to the attached EMPr in Appendix H.	Not applicable
Residual impacts: Animal fatality due to collisions	Low	Low	Low	None	None	None	Not applicable
Cumulative impact post mitigation:	Low	Low	Low	Low	Low	Low	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative	Minor negative	Minor negative	Very Low -	Very Low -	Very Low -	Not applicable

Potential impact and risk:	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.	A slow loss of thicket habitat, protected tree species, and plant species biodiversity due to landscaping and maintenance activities required.
Nature of impact:	During the operational phase, the site will undergo long-term transformation through landscaping, gardening vegetation trimming, invasive species control, garden planting, and the upkeep of paths, driveways, and stormwater infrastructure.	During the operational phase, the site will undergo long-term transformation through landscaping, gardening vegetation trimming, invasive species control, garden planting, and the upkeep of paths, driveways, and stormwater infrastructure.	During the operational phase, the site will undergo long-term transformation through landscaping, gardening vegetation trimming, invasive species control, garden planting, and the upkeep of paths, driveways, and stormwater infrastructure.	Not applicable	Not applicable	Not applicable	No development and no disturbance
Extent and duration of impact:	Ongoing	Ongoing	Ongoing	Not applicable	Not applicable	Not applicable	Status quo
Consequence of impact or risk:	The most significant concern is the progressive degradation of remaining Hartenbos Dune Thicket fragments, which are already fragmented, secondary in structure, and under pressure.	The most significant concern is the progressive degradation of remaining Hartenbos Dune Thicket fragments, which are already fragmented, secondary in structure, and under pressure.	The most significant concern is the progressive degradation of remaining Hartenbos Dune Thicket fragments, which are already fragmented, secondary in structure, and under pressure.	Not applicable	Not applicable	Not applicable	Not applicable
Probability of occurrence:	Almost certain	Likely	Likely	Not applicable	Not applicable	Not applicable	Likely
Degree to which the impact may cause irreplaceable loss of resources:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be reversed:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Indirect impacts:	None	None	None	Not applicable	Not applicable	Not applicable	Not applicable
Cumulative impact prior to mitigation:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Significance rating of impact prior to mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative: -72	Minor negative: -72	Minor negative: -66	Not applicable	Not applicable	Not applicable	Minor negative: -35
Degree to which the impact can be avoided:	Low	Low	Low	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be managed:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Degree to which the impact can be mitigated:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Proposed mitigation:	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Please refer to the attached EMP in Appendix H.	Not applicable	Not applicable	Not applicable	Not applicable
Residual impacts: Loss of SSC	Moderate negative	Very Low -	Minor negative	Not applicable	Not applicable	Not applicable	Negligible negative
Cumulative impact post mitigation:	Medium	Medium	Medium	Not applicable	Not applicable	Not applicable	Not applicable
Significance rating of impact after mitigation: (e.g. Low, Medium, Medium-High, High, or Very-High)	Minor negative: -40	Minor negative: -40	Minor negative: -35	Not applicable	Not applicable	Not applicable	Not applicable

[illegible]