



STELLENBOSCH
STELLENBOSCH • PNIEL • FRANSCHHOEK

MUNICIPALITY • UMASIPALA • MUNISIPALITEIT

Ref: 3/5/3/5/2/2

2014-11-05

MINUTES

ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE MEETING

2014-11-05 AT 15:00

MINUTES
ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE MEETING
2014-11-05

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MINUTES OF THE ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE MEETING HELD IN THE COUNCIL CHAMBER, TOWN HOUSE PLEIN STREET, STELLENBOSCH ON 2014-11-05 AT 15:00

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

PRESENT Councillor V Fernandez (Ms) (Chairperson: Human Settlements)

Councillors DS Arends
N Gcaza (Ms)
JK Hendriks
L Ronoti

Also Present Councillor: C Manuel

Officials Director: Engineering Services
Acting Director: Human Settlements
Manager: Solid Waste Management(S Haider from 15:45)
Manager: Water Services (D van Taak)
Acting Manager: Electrical Services (J Coetzee)
Manager: Development Services (V Harris)
Manager: New Housing (L van Stavel)
Project Coordinator: (J Robyn)
Head: Committee Services
Committee Clerk (B Mgcushe (Ms))
Interpreter

1. APPLICATION FOR LEAVE OF ABSENCE (3/4/3/3)

ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE MEETING: 2014-11-05: ITEM 1

RESOLVED (nem con)

that leave of absence be granted to Alderman DC Botha.

ABSENT

Councillor JA Davids

Councillor XL Mdemka (Ms)

(HEAD: COMMITTEE SERVICES TO ACTION)

2.1 DECLARATION OF INTEREST (3/6/2/2)

None

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

2.2 COMMUNICATION BY THE CHAIRPERSON (3/4/3/6)

None

3. CONFIRMATION OF THE MINUTES

**3.1 CONFIRMATION OF THE MINUTES OF THE ENGINEERING SERVICES
AND HUMAN SETTLEMENTS COMMITTEE MEETING HELD ON
2014-10-01 (3/4/3/5/2/2)**

The above-mentioned minutes were previously distributed.

FOR CONFIRMATION

(HEAD: COMMITTEE SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 3.1**

RESOLVED (nem con)

that the minutes of the meeting of Engineering Services and Human Settlements Committee held on 2014-10-01, be confirmed.

(HEAD: COMMITTEE SERVICES TO ACTION)

**4. REPORT BY THE DIRECTOR(S) RE RESOLUTIONS TAKEN AT THE
MEETING HELD ON 2014-10-01 (3/4/3/5/2/2)**

None

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

5. REPORTS FROM OFFICIALS: HUMAN SETTLEMENTS

5.1 NON-DELEGATED MATTERS

5.1.1 PROPOSED AMENDMENT TO LEASE AGREEMENTS: LA MOTTE HOUSING PROJECT: WRITING-OFF OF OUTSTANDING DEBT

File number : 7/P/5/Management of Stellenbosch Municipality's Immovable Property

Compiled by : Manager: Property Management (P Smit)

Report by : Acting Director: Human Settlements and Property Management (P Smit)

Delegated Authority : Council

Strategic intent of item:

Preferred investment destination	<input type="checkbox"/>
Greenest municipality	<input type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input checked="" type="checkbox"/>
Good Governance	<input type="checkbox"/>

1. PURPOSE OF REPORT

To obtain the necessary approval to amend some of the lease agreements, allowing for the once off writing-off of outstanding debt (lease amounts).

2. BACKGROUND

2.1 Memorandum of Understanding (MOU)

During January 2006, Stellenbosch Municipality and the Trans Caledon Tunnel Authority (TCTA) concluded a M.O.U in terms whereof, *inter alia*:-

- (a) TCTA would build 80 houses in La Motte, to be transferred to the Municipality, free of charge after the construction of the dam;
- (b) The municipality would, in turn, utilise the proceeds for the benefit of the identified communities in the project area; and
- (c) The parties would conclude a written agreement, setting out the terms and conditions of such a transfer."

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

2.2 Transfer Agreement

On 30 July 2008 a number of amendments to the (Draft) Agreement were approved by the Mayco.

On 29 August 2008 a Transfer Agreement was concluded and on 20 April 2010, following the approval of a General Plan, a Deed of Donation was concluded, paving the way for the actual transfer.

2.3 Lease Agreements

Following the signing of the Transfer Agreement in 2008, Stellenbosch Municipality entered into a number of Lease Agreements with identified beneficiaries. In terms hereof Lessees were to pay occupational rent, on a sliding scale (unapproved at the time).

2.4 Cash buyers

During this period (2009-2010) a number of people (9 in total), however, paid the full purchase price in cash. Because no Sales Agreements were concluded at the time, these people also concluded Lease Agreements, in terms whereof they agreed to pay occupational rent. The agreements, however, were silent on the interest earned on the sales price paid up front.

2.5 Final approval of sliding scale: lease amounts and sales price

On 07 June 2010 Council approved a sliding scale in terms whereof the sales price, as well as the occupational rent (equal to 80% of deemed monthly installation at 10% interest per annum) were approved. A copy of the agenda item is attached as **APPENDIX 1**.

2.6 Transfer of land

During December 2012 the property was transferred to Stellenbosch Municipality and during June 2013 the General Plan was registered (Township establishment), paving the way for individual transferrers (to buyers) to take place.

2.7 List of outstanding rentals

Hereto attached as **APPENDIX 2** a list of people who paid their sales price in cash, setting out the interest earned to date.

Hereunder a list of outstanding rentals as at 31 August 2014:

W. Orien	R81 120.00
B. Williams	R108 031.00
P. Jones	R56 880.00

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[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

M.J. Leibrandt	R81 320.00
A.D.J. Boonzaaier	R91 591.47
L.D Johannes	R82 800.00
A. Jacobs	R98 340.00
G.M. Alexander	R127 482.08
H. Daniels	R82 160.00
Total	R809 704.55

From the above it is clear that none of the people, who have paid their sales price upfront, did in fact pay any rentals.

3. DISCUSSION

3.1 Responsibility to pay rentals

This department is of the view that people who have paid their sales price in cash, should not be liable to pay any rentals, on condition that the municipality receive the interest earned on the investment.

This is in fact in the line with the Council resolution, as there is no "*deemed monthly instalment*".

3.2 Delegated Authority: Writing off of outstanding debt

In terms of the approved System of Delegations (See part 3, paragraphs (7)), the Executive Mayor is authorised to write off individual bad debt, not exceeding R500 000, on the recommendation of the Accounting Officer, provided that an individual bad debt written off shall not exceed R1M.

4. INPUTS BY OTHER DEPARTMENTS

4.1 CFO

Finance supports the Item as the buyer cannot pay rent after purchasing the property.

4.2 LEGAL SERVICES

Mr Smit confirmed in a telephonic discussion on 21 October 2014 that the abovementioned cash buyer beneficiaries agreed that the interest earned on the amounts paid be regarded as the occupation rentals until such time that the properties have been transferred.

The item and recommendations are supported.

5. CONCLUSION

From the above it is clear that none of the cash buyers have paid any rent.

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

RECOMMENDED

- (a) that the outstanding debt, as set out in par. 2.7 (*supra*), totalling R809 704.55 as at 30 August 2014, be written off; on condition that the interest earned on the amounts paid up-front be regarded as the occupational rentals until such time as the properties have been transferred to the individuals; and
- (b) that the Sales Agreements be amended to allow for the above.

(ACTING DIRECTOR: HUMAN SETTLEMENTS TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05:ITEM5.1.1**

RECOMMENDED

- (a) that the outstanding debt, as set out in par. 2.7 (*supra*), totalling R809 704.55 as at 30 August 2014, be written off; on condition that the interest earned on the amounts paid up-front be regarded as the occupational rentals until such time as the properties have been transferred to the individuals; and
- (b) that the Sales Agreements be amended to allow for the above.

(ACTING DIRECTOR: HUMAN SETTLEMENTS TO ACTION)

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

5.2 DELEGATED MATTERS

5.2.1 WEMMERSHOEK HOUSING PROJECT

File number : 17/4/4/12/2
Compiled by : Project Manager: F Ngquba
Report by : Acting Director: Human Settlements & Property Management
Delegated Authority : Engineering Services & Human Settlements Committee

Strategic intent of item

Preferred investment destination	<input type="checkbox"/>
Greenest municipality	<input type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE OF REPORT

To give feedback to the Engineering Services and Human Settlements Committee regarding the Wemmershoek housing development.

2. BACKGROUND

The tender for the Wemmershoek housing project was advertised in November 2013 and the tender was awarded in February 2014.

3. DISCUSSION

The Matrix team was appointed to acquire authorisations and approvals for integrated residential development on public land in Wemmershoek.

The Municipal owned land in this area is about 150ha. The study has found that only 12ha is available for housing development mainly due to environmental constraints / wetlands. Most of this land is located on the eastern side of the R301. This will require the creation of a crossing of the R301 and possibly the downgrading of the maximum

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

speed on this road. The northerly position of the developable land as well as a bundle of services along the road will however hamper integration of the new area with the existing urban node. The developable land on the western side of the R301 consists of some smaller infill sites and mixed-use development opportunities on a portion between the saw mill and the R301 the feasibility of the intended housing development is questionable due to the following:

- Limited availability of land for housing
- Problematic location on the other side of R301, removed from the existing settlement.
- High cost of bulk infrastructure required (see attached closing report as **APPENDIX 1** and layout plan as **APPENDIX 2**).

4. LEGAL IMPLICATION

The Item and proposed recommendation is supported.

5. FINANCIAL IMPLICATION

Finance has no input on this item, except that the housing budget needs to be adjusted.

6. COMMENTS FROM OTHER RELEVANT DEPARTMENTS

Engineering Services

This Directorate takes cognisance of the content of the report confirming the proposed site not to be developed due to certain constraints.

Planning and Environment Department

The Directorate supports the recommendation not to develop the site due to environmental sensitivities.

Property Management

This department is in support of the recommendations contained in the report.

7. CONCLUSION

Due to the fact that the big portion of the land is wetlands the housing development is not feasible. It is suggested that the project should not continue.

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

RECOMMENDED

- (a) that due to the environmental constraints of the project remainder Farm 1338 and 1024 of land not be utilised for an integrated mixed use housing project; and
- (b) that the funding provided for the project be verimented within the Department New Housing for other projects.

(ACTING DIRECTOR: HUMAN SETTLEMENTS TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05:ITEM5.2.1**

RESOLVED (nem con)

- (a) that due to the environmental constraints of the project remainder Farm 1338 and 1024 of land not be utilised for an integrated mixed use housing project;
- (b) that the funding provided for the project be verimented within the Department New Housing for other projects; and
- (c) that the Municipal Manger be requested to investigate possible alternative uses of subject property.

**(ACTING DIRECTOR: HUMAN SETTLEMENTS AND MUNICIPAL
MANAGER TO ACTION)**

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

**5.2.2 MONTHLY REPORT OF DIRECTORATE HUMAN SETTLEMENTS AND
PROPERTY MANAGEMENT FOR OCTOBER 2014**

File number : 8/1/4/2/4

Compiled by : Acting Director: Human Settlements & Property
Management

Report by : Acting Director: Human Settlements & Property
Management

Delegated Authority : Engineering Services & Human Settlements
Committee

Strategic intent of item

Preferred investment destination	<input checked="" type="checkbox"/>
Greenest municipality	<input type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE OF REPORT

To inform the Committee of the activities in the Directorate: Human Settlements and Property Management.

2. DISCUSSION

2.1 Management of Public Rental Stock

A Strategy for the Management of Public Rental Stock was approved by Council in June 2014.

A list of TWELVE tenants from Cloetesville and LAP Flats who were found contravening conditions of Lease were handed to the Legal Advisor for eviction.

Repairs /renovation of Phyllaria completed and Aurora has commenced.

Tenders for the appointment of Consultant to do specifications for repairs of lifts closed and is being reviewed.

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

Social compacts with tenants to be initiated in October 2014.

106 top structures- Deeds of Sale have been signed and submitted to the Conveyancing Attorney. Marias Muller attorney received the rates clearance certificate and conveyancing of the properties is in process.

2.2 New tariff Structure for staff rental (pilot project for public rental housing)

Appointment of a project manager will be finalized in September 2014. Outcomes will be:

- database of all occupants;
- Revised policy/approach;
- Revised lease agreements.

2.3 Informal Settlement Management Policy

Severe capacity constraints within the department will impact on its ability to perform within set timeframes. This is of concern given that Informal Settlements is rated as a high risk area for the municipality.

2.4 Review Emergency Housing Policy

Revised policy to be submitted to Council in due course.

2.5 Identify sites for Emergency housing

A workshop was held with all key stakeholders to gain support for the land identified. Report to go to Council.

2.6 Transfer of ownership of 200 houses to beneficiaries

A process action plan was devised in terms of which administrative procedures would be streamlined.

As a first phase, an attorney was appointed to transfer the properties identified at Kayamandi (Thubelitsha houses).

Although 505 Sales Agreements were finalized, only 219 sales agreements together with the requisite supporting documents could be handed over to the attorneys. This was largely due to the fact that beneficiaries no longer resided in Kayamandi or did not respond to requests from the Department to come and sign their documents.

MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

To date 93 Transfer Documents (Power of Attorney) has been signed by the Department.

3. PROVIDE HOUSING OPPORTUNITIES BY WAY OF APPROVED HOUSING PIPELINE

3.1 Jamestown Housing

Tender for the installation of services to sites was advertised. Tender has been evaluated and the BAC Meeting made an appointment on 29 August 2014.

The survey for the backyarders and informal settlements in Jamestown has been completed.

3.2 Kayamandi Housing Project

The optimal use of land and through densification created the opportunity to increase the project from 180 serviced sites to 193 serviced sites. All sites have been serviced and project has been completed

No confirmation of funding for top-structures has been received from Province. The contractor has been appointed in the previous financial year and is busy with preparation of building plans to be approved by the Municipality and the Department of Human Settlements.

3.3 Vlottenburg Housing Project

Funding applications were approved by the Department of Human Settlements for the provision of services to 106 sites and to build 106 houses. The entrance road to the project was ***not*** approved by Provincial Road Engineer at a late stage, and the department is currently investigating new options. A meeting was held with all land-owners on 9 September 2013 to determine an acceptable entrance. The project is surrounded on all fronts by land that is owned privately and robust negotiations will be needed to conclude this last outstanding aspect in order to kick-start the project.

The Department New Housing requested a legal opinion from the Senior Legal advisor (M Williams) regarding the conditions in the Service Level Agreement with the Implementing Agent for non-performance. Await formal legal opinion from the said department. Several meeting have been held with the appointed legal firm to find solutions to the contract.

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

3.4 Housing Project: Erf 10860-11008, Idas Valley

Land Availability Agreement (LAA) was signed with SAM JV. The developer is currently busy with all necessary studies as well as NEMA process. Successful community meeting was held. The site lay-out plan is currently being discussed and scrutinized by the Engineering and Planning department to advise the developers (SAMJV) on technical matters. Information boards are being finalised and erected at the entrance at each development site.

3.5 Housing Project: La Motte

The NEMA application and the NEMA Exemption application for Farm 1653, Farm 1339 and Farm 1158/1, La Motte have been submitted to DEA&DP for consideration.

A meeting was held with the Department of Public Works during June 2014 to obtain the Intend to Develop certificate. CK Rumboll submitted the request on behalf of Stellenbosch municipality and thereafter we will apply for the transfer of the property. Still awaits for confirmation of the Department of Public Works.

3.6 Mega Action Project

The Department of Human Settlements (DoHS) has indicated that, through their Integrated Residential Development Program (IRDP), they will, in future, support large scale mega projects that include various land uses such as business, education, broad spectrum housing typologies, recreation and all other required institutions.

In accordance with the SDF, the following areas will be further investigated for suitability as a site for a mega project:

- (i) Droëdyke
- (ii) Nietvoorbij
- (iii) Stellenbosch Northern Expansion (between Kayamandi and Welgevonden Road)

Department was scheduled to meet with CFO/Planning Dept. during this month to finalise funding sources for the feasibility studies. In lieu of the appointment of the Director: Planning and Economic Development the meeting was postponed to solicit his input in this

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

matter. The meeting will be scheduled in September 2014, and a terms of reference is currently being drafted.

3.7 Repairs to existing Housing project

All certificates were obtained that enabled the department to issue Occupation Certificates. A meeting was held with the Manager: Building Development and his only concern is that the staircases in the units do not adhere to National Building Regulations. Council will, therefore, have to make additional funding available for the necessary work in order to ensure that the building plans are approved. Project is viewed as complete. The New housing Department together with Building Department conducted a site inspection. The building Department advised that grab rails should be installed in all the units in order for the building plans to be approved. There after the occupation certificates will be issued. The New housing Department is in a process of compiling the tender document for this project to be finalized.

3.8 Innovative Housing Technology

The Department has committed itself to the appointment of project manager within 3 months. The specifications for the appointment of a project manager are currently being drafted and will be finalised with SCM section by the end of October 2014.

4. UPGRADING OF INFORMAL SETTLEMENTS BY WAY OF THE ABS PROGRAMME

4.1 Roll out of ABS project

WF Construction was appointed as the contractors to install the communal services in Langrug, Franschoek and Enkanini, Kayamandi. The project is delayed by approximately one month, due to a rain.

4.2 Construction of Bus Route

Designs and specifications completed. Tender period has closed and is under evaluation.

4.3 Submit applications for UISP projects

The FQ for submission of the planning funding application for Enkanini has closed and is currently being evaluated.

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

5. PROMOTE SUSTAINABLE HOUSING/DENSIFICATION

SALGA workshops on restructuring zones were held in September 2014.

6. UPGRADING AND MAINTENANCE OF MUNICIPAL PROPERTIES

6.1 Upgrade of Rhode Street Flats

Tenders closed on 05 September 2014. Tender evaluation report was submitted to SCM

6.2 Complete upgrading to LAP flats

Contractor is on site 55% of the project has already been completed. The project will be completed by December 2014. Tenders for the appointment of consulting Engineers for the design/planning of lifts has been awarded.

6.3 Complete Planning for Multi-purpose centre

Tender specifications/Scope of work for the appointment of a consultant team has been completed and send to SCM for advertising

7. BEST MANAGEMENT OF MUNICIPAL PROPERTIES

7.1 Identification of a number of strategic property transactions in collaboration with CFO

Various properties have been identified but can only be considered once the Draft Policy on the Management of Council –owned property is in place.

7.2 Land Reform Initiative

Compulsory briefing session with prospective service providers (consultants) took place on 21 August 2014. Closing date for quotations was 12 September 2014. A tender evaluation report was compiled and delivered to SCM for the appointment of a consultant. A workshop to develop a policy/strategy will be held at a date still to be determined.

Subsequently, however, Council decided to appoint a working group to write a new policy. The appointment of the Consultant was therefor put on ice.

[Chairperson: Human Settlements: Councillor V Fernandez (Ms)]

RECOMMENDED

that the monthly report for October 2014, be noted

(ACTING DIRECTOR: HUMAN SETTLEMENTS TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05:ITEM5.2.2**

RESOLVED (nem con)

that the monthly report for October 2014, be noted

(ACTING DIRECTOR: HUMAN SETTLEMENTS TO ACTION)

[Chairperson: Engineering Services: Alderman DC Botha]

6. REPORTS FROM OFFICIALS: ENGINEERING SERVICES**6.1 NON-DELEGATED MATTERS****6.1.2 APPROVAL FOR THE PERMANENT STREET CLOSURE OF DENNESIG AND PAUL KRUGER STREETS WITH THE R44**

File number : 8/1 Engineering Services & Integrated
Human Settlements

Compiled by : Manager: Transport, Roads and Stormwater

Report by : Director Engineering Services

Delegated Authority : Council

Strategic intent of item

Preferred investment destination

Greenest municipality

Safest valley

Dignified Living

Good Governance

1. PURPOSE OF REPORT

To consider the application for the approval with regard to the permanent street closure of Dennesig and Paul Kruger Streets with the R44, Stellenbosch.

2. BACKGROUND

An application dated 12 March 2014 (see **APPENDIX 1**) for the permanent street closure of Dennesig and Paul Kruger Streets with the R44 was received from the Dennesig.com, which is a community organisation representing 90% of the property owners of Dennesig-, Paul Kruger-, Molteno- and Hofman Streets, Stellenbosch.

3. DISCUSSION

A meeting was held on the 5 March 2014, discussing the proposed application. The application is based on the rat-running of externally created vehicle and pedestrian movements through their

[Chairperson: Engineering Services: Alderman DC Botha]

neighbourhood, and due to the unpaved sidewalks pedestrians are forced to walk in the street which creates unsafe conditions for both motorists and pedestrians.

Problem description

Pedestrian movement from outside the Dennesig.com area, cause excessive littering and although refuse bins have been provided by the municipality, the refuse never reaches the bin. The residents must take it upon themselves to clean-up the streets. The majority of the pedestrians utilizing these streets are illegally crossing the railway lines close to the Simonsberg cheese factory and by closing the R44 with Dennesig and Paul Kruger Street, these movements will be limited. Provision has been made in respect of a safe brickpaved walkway for pedestrians wanting to cross the railway lines at the R44 and George Blake signalized intersection.

During traffic peak periods; taxis and tow trucks are utilizing Hofman Street as a shortcut between Merriman- and Molteno Street. These vehicles have no respect for their fellow road users and are a great danger to the residents of Dennesig.com.

A Traffic Impact Statement (see **APPENDIX 2**) was done by ICE Boland Consulting Engineering dated 21 November 2013 reference number B035 for Erf 161, on the corner off R44 and Dennesig Street which encompassed the proposed road closures with the R44 (Dennesig and Paul Kruger). It states that "The closing of Dennesig Road and Paul Kruger Road at the R44 will have a low traffic impact on the surrounding road network" and that an "Analysis of the Molteno Road/Hofman Road, Merriman Avenue/Hofman Road, Merriman Avenue/Bird Street and Bird Street/Molteno Road intersection with the closing of Paul Kruger and Dennesig Roads and expected 2014 traffic volumes, including trips generated by the proposed development, indicates that all movements at all intersections will continue to operate at acceptable levels of service".

An e-mail from the Department of Transport and Public Works (Schalk Carstens - see **APPENDIX 3**) in respect of abovementioned requested, recommends the proposed road closure of the R44 with Dennesig and Paul Kruger Streets on the fundamental elements of improved traffic flow and minimizing vehicle conflicting movements. A detail engineering plan with regard to the proposed road closures with the R44 will have to be submitted to the Department of Transport for approval.

[Chairperson: Engineering Services: Alderman DC Botha]

Proposed solutions as per application letter

1. Closure of Dennesig Street and Paul Kruger Street;
2. Creating a one-way along Hofman Street between Paul Kruger- and Molteno Street;
3. Implementation of speed humps along Hofman Street;
4. Visible policing to observe speeding (taxis and tow trucks) and taxis operators who divert from their permit routes.

Evaluation of requests

1. Closure of Dennesig Street and Paul Kruger Street with the R44
 - A Traffic Impact Statement (see **APPENDIX 2**) was done by ICE Boland Consulting Engineering dated 21 November 2013 reference number B035 for Erf 161, on the corner off R44 and Dennesig Street which encompassed the proposed road closures with the R44 (Dennesig and Paul Kruger). It states that "The closing of Dennesig Road and Paul Kruger Road at the R44 will have a low traffic impact on the surrounding road network" and that an "Analysis of the Molteno Road/Hofman Road, Merriman Avenue/Hofman Road, Merriman Avenue/Bird Street and Bird Street/Molteno Road intersection with the closing of Paul Kruger and Dennesig Roads and expected 2014 traffic volumes, including trips generated by the proposed development, indicates that all movements at all intersections will continue to operate at acceptable levels of service".
An e-mail from the Department of Transport and Public Works (Schalk Carstens - see **APPENDIX 3**) in respect of abovementioned requested, recommends the proposed road closure of the R44 with Dennesig and Paul Kruger Streets on the fundamental elements of improved traffic flow and minimizing vehicle conflicting movements. A detail engineering plan with regard to the proposed road closures with the R44 will have to be submitted to the Department of Transport for approval.
 - The road closure application was dealt with in terms of Stellenbosch Municipality's Bylaw on Streets; Article 30 (Closure of streets and public places), all street closure applications must be advertised for 30 days for any objection.
 - The application for the permanent street closure of Dennesig and Paul Kruger Streets with the R44 is supported, as it will minimise the rat-running of vehicles, illegal railway pedestrian crossings and external pedestrian movements in the Dennesig.com area; including the improvement of traffic flow, vehicle queue lengths and minimising vehicle conflict movements on the R44 intersections.

[Chairperson: Engineering Services: Alderman DC Botha]

2. Creating a one-way along Hofman Street between Paul Kruger- and Molteno Street
 - Application not supported due to connectivity functionality of Hofman Street between Merriman- and Molteno Street, and it also serves as an alternative road in case of emergency during a road closure on the R44 or Bird Street.
3. Implementation of speed humps along Hofman Street
 - Speed hump application was evaluated in terms of Stellenbosch Municipality's Traffic Calming Policy, see attached **APPENDIX 6**. Application is not supported as further investigation is needed.
4. Visible policing to observe speeding (taxis and tow trucks) and taxis operators who divert from their permit routes.
 - Stellenbosch Traffic Department has conducted various ad-hoc traffic checkpoint operations, in respect of speeding vehicles and taxi movement operation, which has proven to be successful.

4. LEGAL IMPLICATION

Public Participation

Closure of Dennesig Street and Paul Kruger Street with the R44.

- The road closure application was dealt with in terms of Stellenbosch Municipality's Bylaw on Streets; Article 30 (Closure of streets and public places) which states that all street closure applications must be advertised for 30 days for any objection.
- The notice was advertised in the local newspaper namely; the Gazette and Eikestadnuus on the 29 April 2014 and 1 May 2014 respectively (see **APPENDIX 4**)
- No comments were received at the Municipal Manager office, see attached e-mail for Hannelie Lategan (see **Appendix 5**)

Legal Opinion

In considering the permanent road closure the municipality needs to bear in mind the constitutional and legal framework created by the Constitution, which in brief requires that all conduct and action by both the State and non-State actors conform to the requirements set out in the Constitution.

[Chairperson: Engineering Services: Alderman DC Botha]

The Bill of Rights

“The Constitution is the supreme law of the Republic; law or conduct inconsistent with it is invalid, and the obligations imposed by it must be fulfilled”.

The Bill of Rights is the cornerstone of South African democracy and grants all people in the country fundamental human rights. It underpins the democratic values of human dignity, equality and freedom and regulates relationships between the State and individuals and/ or between individuals.

Legislation must be interpreted to promote the spirit and objectives of the Bill of Rights. Subject to very limited exceptions, the rights in the Bill or Rights are not absolute. Several sections in the Bill of Rights can be applied in this matter, including:

- The right to equality;
- The right to human dignity;
- The right to freedom and security of the person.
- The right to privacy
- Freedom and movement and residence
- Limitation of rights.

The effect and impact of the road closure materially affects issues of urban mobility and functionality, and militates against the original idea of an innovative capital where people ought to move freely, engaging in business, social activity and recreation as part of a collective.

There are various types of access restrictions that could be utilised, including monitoring measures such as guards and guardhouses, traffic calming measures, boom gates and closures etc. The more severe the measure, such as permanently closing of the road, the greater the likelihood of it resulting in the restriction or violation of other people’s rights.

5. FINANCIAL IMPLICATION

Funding needed for the actual closing of the R44 with Dennesig and Paul Kruger Street. Approximate costing = R300 000. The municipality’s small Capital Ward Project allocation for ward 11, will be utilized for the implementation costs and any shortfalls must be covered by Dennesig.com.

[Chairperson: Engineering Services: Alderman DC Botha]

6. COMMENTS FROM OTHER DEPARTMENTS

6.1 Public Safety & Community Services (Manager: Traffic Services – Ms Janine Waldis)

The Department supports recommendations made by Engineering Department with regard to the closure of mentioned streets. Public Transport operations will continue, but speed enforcement was not conducted due to the legal requirements pertaining distance of signage and length of road. The placement of speed bumps will address both problems by forcing taxi's to use the prescribed route and it is a known fact that motorists would choose an alternative route to avoid delays such as speed bumps, therefore reducing thoroughfare in general.

6.2 Finance

Finance supports the Item. Engineering should budget for the Item.

6.3 Strategic and Corporate Services (Legal – Elizabeth Williams)

Given the history of exclusion and separation the municipality must be extremely careful in embarking on an urban design that works against the notion of a united society. The onus must be on the residents of these areas seeking the limitation to make a proper case for limitation. It would have to be shown that the limitation was “reasonable and justifiable in an open and democratic society”.

Litter, crime and violence remain an ongoing concern and visible threat to all the residents and the challenge is how the municipality and the community can work together in fighting this.

6.4 Planning & Local Economic Development

Refer to **APPENDIX 7** for comments

6.5 Municipal Manager

A site visit occurred. The recommendation supports traffic flow on the R44 which is critical for the municipal area as all measures are necessary to alleviate traffic congestion must be taken

RECOMMENDED

- (a) that the application for the permanent street closure of Dennesig- and Paul Kruger Street with the R44 be supported;

[Chairperson: Engineering Services: Alderman DC Botha]

- (b) that creating a one way along Hofman Street between Paul Kruger and Molteno Streets not be supported;
- (c) that the applications for implementation of traffic calming measures in Hofman Street not be supported; and
- (d) that visible Law Enforcement be performed in the areas concerned.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

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RECOMMENDED

- (b) that the application for the permanent street closure of Dennesig and Paul Kruger Street with the R44 be supported;
- (b) that creating a one way along Hofman Street between Paul Kruger and Molteno Streets not be supported;
- (d) that the applications for implementation of traffic calming measures in Hofman Street not be supported; and
- (d) that visible Law Enforcement be performed in the areas concerned.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

[Chairperson: Engineering Services: Alderman DC Botha]

6.1.3 ELECTRICITY SUPPLY TO THE MUNICIPAL AREAS OF STELLENBOSCH

File number : 8/1 Engineering Services
Compiled by : Manager: Electrical Services
Report by : Director: Engineering Services
Delegated Authority : Council

Strategic intent of item

Preferred investment destination	<input checked="" type="checkbox"/>
Greenest municipality	<input type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input checked="" type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE

To provide clarity and update on the supply of electricity in the municipal area of Stellenbosch.

2. BACKGROUND

Since the demarcation in 2000, municipalities are faced with the challenge that they only supply electricity to certain parts of the municipal area (urban areas) while Eskom supplies the rest (rural areas). In Stellenbosch's case, there is even a third supplier namely Drakenstein Municipality, who is supplying Pniel and surrounding areas with electricity.

The most serious challenges that Stellenbosch Municipality encounters are:

- The standard of service delivery differs in the three areas of supply;
- The electricity tariffs differ substantially;
- Stellenbosch Municipality does not receive income from the sales of electricity as is the case in its own supply area; and
- The municipality cannot make use of electricity supply for debt control purposes.

[Chairperson: Engineering Services: Alderman DC Botha]

Since the demarcation, the taking over of these areas by the Municipality has been under discussion.

3. DISCUSSION

The two areas supplied by Eskom and Drakenstein Municipality will be discussed separately:

3.1 **The rural areas outside Stellenbosch town and Franschhoek are supplied with electricity by Eskom and include the smaller towns of Klapmuts, Jamestown, Raithby, Koelenhof, Wemmershoek, La Motte and Kylemore.**

Just about every municipality in the country are encountering similar challenges with Eskom supplying electricity to a portion of the municipal area. SALGA was subsequently requested to investigate the matter. The outcome of the investigation was that it is not feasible for the municipality to take over the Eskom supply areas. It was therefore proposed that municipalities rather enter into an agreement with Eskom to supply electricity on behalf (under control) of the municipality in these areas. The municipality can then negotiate the following benefits amongst others:

- Influence the standard of service delivery;
- Impose a levy on the tariffs to create an income and at the same time equalising the tariffs; and
- Make use of supply of electricity to control debt.

The latest information is that SALGA is negotiating the matter with Eskom at high level. This leaves municipalities in a situation where they have to wait for the outcome of the negotiations.

It should be noted that such an agreement will have to be preceded by a Section 78 investigation.

3.2 **The areas within Stellenbosch municipality where Drakenstein Municipality is supplying electricity are Pniel, Johannesdal and the rural area to the east of Pniel.**

This situation arose as a result of Drakenstein Municipality's supply area that developed into the rural area before Eskom's existence.

Taking over the supply of electricity in Pniel and Johannesdal will need amongst others the following actions:

- Determine the feasibility;
- Negotiations with Drakenstein Municipality; and

[Chairperson: Engineering Services: Alderman DC Botha]

- Involve NERSA who is controlling the electricity supply area licenses.

It should be noted that the whole area have to be considered and not only Pniel. This will increase cost and complicate the matter even more. It will however be difficult to motivate otherwise. There is no detail available about previous investigations regarding this matter although it is clear what the outcome was.

Stellenbosch Municipality will have to take a supply from the Eskom substation in Kylemore and distribute to the concerned area. There are about 4 or 5 lines from Drakenstein crossing over into the Stellenbosch area. These lines will have to be cut on the border and connected to the Stellenbosch supply. The cost can be in the region of R7-8 million. On top of this there will be operational and maintenance costs which will include extra personnel and equipment. The department is planning to conduct a study in order to provide more clarity on the matter. Such study can take up to six (6) months at approximately R200 000.

The possibility should also be considered of the impact if the Boschendal surrounding areas are developed in future. This brings a new dimension to the discussion. Such a development can have the effect that it will not be viable to take a supply from Eskom's Kylemore substation, but that Stellenbosch will have to construct a new 66/11 kV substation near the development. The cost can be in excess of R50 million of which the developer will have to make a pro rata contribution. The possibility of such a development being allowed to proceed, and potential timeframes, can influence a possible way forward on the issue.

4. LEGAL IMPLICATION

The Constitution provide municipalities with the authority to administer and govern electricity reticulation as well as the right of National and Provincial Government to oversee and regulate effective performance by the municipalities.

Sections 156 (1) and (2) assign municipalities executive authority and right to administer local government functions laid out in Schedule 4 Part B which includes electricity reticulation

Section 151(3) vests municipalities with the right to govern those matters on their own initiative, subject to national and provincial legislation, as provided for in the Constitution

[Chairperson: Engineering Services: Alderman DC Botha]

Section 139(1) : *When a municipality cannot or does not fulfil an executive obligation in terms of legislation, the relevant provincial executive may intervene by taking any appropriate steps to ensure fulfilment of that obligation ...*

Section 155(7) *National government... and provincial government have the legislative and executive authority to see to the effective performance by municipalities of their functions in respect of matters listed in Schedules 4 and 5, by regulating the exercise by municipalities of their executive authority*

The **Municipal Systems Act** (2000) defines how a municipality should provide municipal services to residents within its area of jurisdiction. In terms of the Act municipalities can engage or contract external parties such as utilities, agencies and corporations to provide services on their behalf. Aforementioned can only be done through a Service Delivery Agreement between the municipality and a service provider.

Section 78 of the Municipal Systems Act outlines criteria and a process for deciding on institutional mechanisms to provide municipal services. In terms of the item, it appears as if **this process has not been followed** and most municipalities inherited Eskom as a distributor and that NERSA issues a distributor license to Eskom in a given area without a Municipal Council resolution.

Section 78 decision regarding Service Delivery Mechanisms in the municipal area or entering into a Service Delivery Agreement with the municipality. This implies that NERSA seizes the powers of municipal councils of taking Section 78 decisions and disregards the Systems Act criteria and process.

Electricity Regulation Act 28 of 2007 defines electricity reticulation as the "trading or distribution of electricity and includes services associate therewith". Empowers the Minister or regulator to establish norms and standards, KPIs and for municipalities to ringfence their EDI financial statements

The Municipal Fiscal Powers and Functions Act 12 of 2007 defines a "municipal surcharge" as a charge in excess of the municipal base tariff that a municipality may impose on fees for a municipal service provided by or on behalf of a municipality.

Section 76 of the *Systems Act* states that a municipality may provide a municipal service in its area or a part of its area through

An internal mechanism, which may be-

(i) A department or other administrative unit within its administration;

[Chairperson: Engineering Services: Alderman DC Botha]

(ii) Any business unit devised by the municipality, provided it operates within the municipality's administration and under the control of the council in accordance with operational and performance criteria determined by the council; or

An external mechanism by entering into a **Service Delivery Agreement** with-

- (i) A municipal entity;
- (ii) Another municipality;
- (iii) An organ of state, including
- (bb) A **licensed service provider** registered or recognized in terms of national legislation; and
- (iv) A community based organisation or other non-governmental organisation legally competent to enter into such an agreement, or
- (v) Any other institution, entity or person legally competent to operate a business activity

In terms of the relevant Constitutional provisions and the subordinate legislation mentioned above, Service delivery agreement must be entered into between the parties. Aformentioned is however subject to the outcome of the negotiations between SALGA and ESKOM as mentioned in the item.

Item is supported.

5. FINANCIAL IMPLICATION

Finance supports the item

6. CONCLUSION

It will be advisable to wait for the outcome of the negotiations between Eskom and SALGA, but a preliminary investigation should be conducted into the possibility of taking over the electricity supply from Drakenstein Municipality.

RECOMMENDED

- (a) that a preliminary investigation be conducted by the Directorate: Engineering Services (Electrical Services) into the possibility and feasibility of taking over the electricity supply from Drakenstein Municipality; and
- (b) that billing cooperation be implemented between Drakenstein and Stellenbosch Municipality to implement more effective debt collection.

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[Chairperson: Engineering Services: Alderman DC Botha]

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
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RECOMMENDED

- (a) that a preliminary investigation be conducted by the Directorate: Engineering Services (Electrical Services) into the possibility and feasibility of taking over the electricity supply from Drakenstein Municipality;
- (b) that billing cooperation be implemented between Drakenstein and Stellenbosch Municipality to implement more effective debt collection; and
- (c) that SALGA be requested to expedite this process through political intervention.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

[Chairperson: Engineering Services: Alderman DC Botha]

**6.1.4 GREEN CAPE WASTE ECONOMY PROJECT, MUNICIPAL CASE STUDY:
ACHIEVING SIZABLE LANDFILL DIVERSION IN STELLENBOSCH
MUNICIPALITY USING ALTERNATIVE WASTE TREATMENT METHODS**

File number : 8/1 Engineering Services
Compiled by : Manager: Solid Waste Management
Report by : Director: Engineering Services
Delegated Authority : Council

Strategic intent of item

Good Governance	<input checked="" type="checkbox"/>
Preferred investment destination	<input checked="" type="checkbox"/>
Greenest municipality	<input checked="" type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input type="checkbox"/>

1. PURPOSE OF REPORT

To inform Council of the Waste Economy Project by Green Cape, who aims to develop a decision support tool that will guide municipalities in developing a systems-based approach for planning and implementing alternative waste management. Stellenbosch Municipality has been identified as the first municipality to pilot the decision-support tool, on the basis of having developed one of the most comprehensive waste-related databases in the Western Cape, and the fact that it has very limited landfill airspace remaining for traditional waste management.

2. BACKGROUND

The Western Cape has a serious landfill airspace shortage, and this has prompted a response from the Provincial authorities to seriously consider alternative waste management technologies and at the same time seek opportunities in the waste economy sector. One of the problems encountered to date has been the bombardment of various technologies to municipalities by service providers, and for the same municipalities not to be in a position to respond effectively and with the necessary expertise to the proposals tabled by potential service

[Chairperson: Engineering Services: Alderman DC Botha]

providers. The capital and operational investment of alternative waste management technologies are huge, and the risk high.

One of the goals of the Waste Economy project is the development of a decision support tool to assist in the development and implementation of alternative solid waste management practices at municipalities. The tool will assist municipalities in the assessment of the different alternative waste management options at a systems level, taking the complete integrated waste management plans into consideration. As part of the deliverables, the project aims to assist three (case study) municipalities in the 2014-2015 financial year.

A Danish decision support model, EASETECH, is being used as the backbone of the tool, with tailoring to the South African context being an essential part of the process. Stellenbosch Municipality is a very good candidate for an initial case study municipality for development and tailoring of the tool as the municipality is currently under enormous pressure to increase waste diversion so as to extend the life of the only operational landfill in the municipality. Currently most of the waste generated in Stellenbosch Municipality is being landfilled at the Devon Valley Landfill. The landfill airspace is not expected to last more than four years at current disposal rates.

Stellenbosch Municipality holds one of the most comprehensive waste-related databases in the Western Cape Province, which will assist in both the tailoring of the tool as well as modelling of alternative waste management scenarios. Key information with regards to the Stellenbosch municipal solid waste is summarised below:

- (a) Waste generation of ca. 9500-11500t/month;
- (b) Separation at source has been implemented, with recyclables of ca. 60-70t/month being recovered;
- (c) Current disposal charge for general mixed waste is approximately R430/tonne; however 'clean' builders' rubble are accepted for free, and same will be for clean garden refuse once chipper tender has been finalized.
- (d) Estimated airspace remaining is ca. 480,000m³.

In addition, liftloggers have been implemented on the 10 collection vehicles, and a weighbridge has been installed at the Devon Valley landfill site.

[Chairperson: Engineering Services: Alderman DC Botha]

3. DISCUSSION

The purpose of the case study is two-fold. On the part of Stellenbosch Municipality it will assist in determining waste management strategies that will result in the extension of the life of the current landfill site, and secondly guide the planning process for the 3rd generation Integrated Waste Management Plan. From GreenCape's perspective it will provide local information for the development and tailoring of the EASETECH decision support tool, and lead to a beta version of decision support tool by the end of the case study.

Stellenbosch Municipality has identified two main projects which will contribute to reducing the amount of waste currently disposed of to landfill. These projects will tackle builders' rubble and green/garden waste since they contribute significantly to the current volumes of waste being disposed in Stellenbosch:

- (a) Garden refuse – piggyback on the City of Cape Town's tender for chipping and composting (approved by council). The municipality is also keen to explore further opportunities with the part of the waste that cannot be composted such as the production of compressed wood bricks that can replace wood and charcoal in heating and cooking applications (i.e. Bioflame logs);
- (b) Builders' rubble – going out on tender for the crushing of builders' rubble. Furthermore a service provider appointed to run a pilot for the production of compressed earth bricks (CEBs) from the crushed builders' rubble and excavated clay.

In addition, there is thought around the following ideas:

- (c) A Mechanical Biological Treatment (MBT) for the domestic waste since it is still largely collected as mixed waste. Waste beneficiation options would include anaerobic digestion for the organic fraction and Refuse Derived Fuel (RDF) production from the non-organic fraction;
- (d) Establishing a by-law for 'event greening'. This will require measures such as separation at source for all events and recovering recyclables by the service provider appointed;
- (e) The development of the 3rd generation of IWMP for Stellenbosch by March 2015.

Discussions between GreenCape staff and the Manager: Solid Waste Management of Stellenbosch Municipality to frame the case study led to the conclusion that the decision support tool must be used to model a number of scenarios around integrated waste management that will

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inform decision making, and ultimately be presented to the Stellenbosch Municipal Council. The case study will be broken down into the following key areas:

- (a) Status quo assessment of current practice using EASETECH (to determine baseline/benchmark);
- (b) Development of a scenario based on the current Stellenbosch Municipality plans and activities - garden refuse and builders' rubble diversion as described above, and the key input will then be Municipal Solid Waste (MSW) diversion so as to achieve an extended life of the landfill (including an MBT process) from 4 years to 12 years as illustrated in Figure 1 below.
- (c) Development of other potential scenarios for the Stellenbosch Municipality for comparison.

The key criteria for the case study will be:

- (a) Landfill airspace saved;
- (b) Costs of implementation of the different scenarios;
- (c) Implications over the short (e.g. 5 years), medium (10 years) and long term (20 years).

Considerations will be given to the role of scale, and opportunity for regional facilities where possible, and the outcome of the case study will be integrated into the 3rd generation of Stellenbosch's IWMP. In this way, the tool will be used to assess the status quo, and direct the strategic planning of the municipality in the future.

The following table presents the work already completed to date:

	Activity	Timeline
1	Inception meeting between Stellenbosch Municipality and GreenCape	09 July 2014
2	Formalisation of case study scope, goals and vision	25 July 2014
3	Status quo assessment of Stellenbosch and identification of gaps in information	15 August 2014

Stemming from the information gathered thus far, the anticipated timeline for this case study is as follows:

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[Chairperson: Engineering Services: Alderman DC Botha]

4	First pass at alternative waste management scenarios for Stellenbosch municipality	30 September 2014
5	Refinement of model scenarios for Stellenbosch Municipality	31 October 2014
6	Finalisation of case study	30 November 2014
7	Final report on case study	15 December 2014

A Memorandum of Understanding (MOU) was entered into between the GreenCape Sector Development Agency (GreenCape) and Stellenbosch Municipality, in order to realise the objectives outlined above. From Stellenbosch Municipality's side the project will be co-ordinated by the Manager: Solid Waste Management, and from GreenCape's side by Mr Tawanda Sango and Ms Sameera Kissoon, who are both researchers on the Waste Economy Project. GreenCape drafted the MOU, which was entered into by their CEO, and Director: Engineering Services for Stellenbosch Municipality.

4. LEGAL IMPLICATION

The South African Constitution, schedule 5B requires municipalities to provide cleaning, cleansing, waste collection, disposal services and related infrastructure.

The regulatory instruments that define an integrated waste management approach, focus on waste minimisation and service delivery. The report highlights the challenges and contain a number of intended projects and activities to give effect to the strategies to manage and minimise waste to ensure sustainable and affordable service. Cognisance must be taken of the fact that a financial commitment may be required from the municipality in terms of the recommendations from the case study.

It is imperative that the legislative required processes be followed in terms of section 78(3) of the Systems Act.

Item is supported

5. FINANCIAL IMPLICATION

Finance supports the Item. It is noted that no municipal finances are required. SCM regulations and policy should be adhered to.

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[Chairperson: Engineering Services: Alderman DC Botha]

RECOMMENDED

- (a) that the contents of the Green Cape Waste Economy Project methods, be noted; and
- (b) that this pilot project be supported in principle.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 6.1.4**

RECOMMENDED

- (a) that the contents of the Green Cape Waste Economy Project methods, be noted; and
- (b) that this pilot project be supported ,in principle.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING

[Chairperson: Engineering Services: Alderman DC Botha]

6.1.5 BERG RIVER IMPROVEMENT PLAN: DESIGN AND TESTING OF A PILOT PROJECT FOR WASTE WATER AND SOLID WASTE

File number : 8/1 Engineering Services & Integrated Human Settlements

Compiled by : Manager: Transport, Roads and Stormwater

Report by : Director: Engineering Services

Delegated Authority : Council

Strategic intent of item

Preferred investment destination	<input type="checkbox"/>
Greenest municipality	<input checked="" type="checkbox"/>
Safest valley	<input checked="" type="checkbox"/>
Dignified Living	<input checked="" type="checkbox"/>
Good Governance	<input type="checkbox"/>

1. PURPOSE OF REPORT

To introduce the Berg River Improvement Plan to Council and to enter into an agreement with the Western Cape Government to roll out pilot projects in Langrug.

2. BACKGROUND

The Western Cape Government via its Department of Economic Development and Tourism has embarked on a project to improve the water quality of the Berg River. An improvement plan (**APPENDIX 4**) was compiled with various projects that fall within the Stellenbosch Municipal area.

These projects are:

- **110% Green: Genius of Place Project**
- **Franschhoek SuDS Centre**
- **Langrug System for People's Access to a Clean Environment (SPACE)**

[Chairperson: Engineering Services: Alderman DC Botha]

110% Green: Genius of Place Project

Stormwater & Waste Water

This project aim is to collect greywater and treat it with Biofilter pipes, storm water swales, micro wetlands and Arboreal Soil Makers.

Solid Waste

This project entails the collection and transport of waste to an upcycle laboratory. At the upcycle laboratory, community members will utilize the waste to generate income through recycling, vermi compost, black soldier flies, crafts etc.

A building will have to be built on Council property for the laboratory.

Franschhoek Sustainable Drainage System (SuDS) Centre

The proposal is to utilize the Franschhoek WWTW to build a facility where biomimicry principles can be tested. Biomimicry is a new science where solutions to engineering problems are sought in nature. There is a need to build a centre where South African plants and their ability to treat waste water can be tested.

The Franschhoek WWTW is currently being decommissioned and will be available for such a project in future.

Discussions are currently underway with a number of tertiary institutions to solicit their involvement in such a project. The next phase would be to secure funding for this project.

Langrug System for People's Access to a Clean Environment (SPACE)

The site for the Bioremediation project lies on the property of the Groendal Secondary School. This installation will use biomimicry to treat storm water. This will improve environmental and river health.

3. DISCUSSION

Waste management is currently a problem in Langrug. Council is not successful in its endeavors to keep the area clean with the current resources allocated to the function. The result is a dirty and unhealthy neighbourhood reflecting negatively on the dignity of the people residing in the neighbourhood.

[Chairperson: Engineering Services: Alderman DC Botha]

The proposed GOP pilot project seeks to address these problems in an innovative and community driven approach. This approach has not been tested and therefore the pilot project is to test it. The pilot will be monitored by a Joint Steering Committee. At the end of the first year the pilot will be assessed and the way forward will be determined. It is the intention to revisit the business plan at the end of the pilot period and it might be necessary to revisit the Memorandum of Agreement in terms of commitments and deliverables.

The SPACE and SUDS Centre projects are included in the MoA, but needs to be developed further in terms of responsibilities and costs and will be submitted to Council in future for approval.

4. LEGAL IMPLICATION

Refer to 6.7

5. FINANCIAL IMPLICATION

The proposal is that the Western Cape Government will stand in for the costs to construct the services and facilities. The municipality will however be responsible to manage the projects.

The estimated costs are as follows:

Year 1: R410 000

Year 2: To be determined

6. COMMENTS FROM OTHER RELEVANT DEPARTMENTS

6.1 Manager: Transport, Roads and Stormwater

The bioremediation solution proposed is new and has not been tested in an informal housing environment. There is a substantial risk that the technology might fail due to mismanagement by the community. Ongoing training and awareness is vital to the success of the project.

Should the proposal work it will provide a low tech, cost effective, environmentally friendly solution that can be rolled out to other informal areas in the Western Cape.

The concept of community managed infrastructure is also new. It might be a challenge to manage the community and their expectations. Strong political leadership will be required.

[Chairperson: Engineering Services: Alderman DC Botha]

There is risk in the fact that if the pilot fails the community will get upset and demand an alternative service. Council might not be in a position to render an alternative service at that time.

At this stage it is unclear under which department this new function should fall. The following skills are needed:

- Community Management
- Horticulture – maintain plants and trees
- Pipe Repairs
- Cleaning of grids

6.2 Manager: Solid Waste

Item supported

6.3 Manager: Water Services

Project 1: Langrug SPACE (System for People to Access a Clean Environment) project.

The following comments were made on the project proposal and the Water Services Section was not privy to the detailed designs. The major concerns are the high volumes in rainy seasons are not addressed by the Communal Waste System, poor quality of the stormwater, the maintenance and upkeep of the project after the initial year and the health and safety of the community.

Stormwater in informal settlements comprises of grey water, foreign objects, sand, silt, faecal matter, solid waste, fats, oils, grease, blood, hazardous material etc. This can cause diseases (open trenches on a school property) and nuisance factors such as flies, mosquitoes and odours when collected and concentrated in one locality.

Other concerns include saturation of the soil and thus a low soil permeability and ponding around the trees (pathogen breeding ground). The selection of trees will determine the absorption rate of the water and the breakdown of organic matter (if any). The absorption of the soil and or roots will not necessarily lower the pathogen concentration. The possibility of a wetland forming is high, with pioneer vegetation establishing and hindering the stormwater pathway forming blockages and trapping solid waste, creating an even bigger nuisance.

The high volumes of stormwater have to be contained or it will cause erosion of the trenches if not formalised.

[Chairperson: Engineering Services: Alderman DC Botha]

The 50 litre collection basin will be flooded by the high volumes of stormwater and have to be cleaned at least daily and during rainy season hourly. Large objects will clog screen and huge quantities of sand and silt will have to be removed. These 'screenings' will contain pathogens and need to be disposed of correctly. This is the first critical control point in the system.

The maintenance and upkeep of such a new communal waste systems is labour intensive, must be monitored very closely and the Water Services Section does not have the capacity to maintain it. The health and safety of the community and the school children must be first and foremost.

The bioremediation solution proposed is new and has not been tested in an informal housing environment. There is a substantial risk that the technology might fail due to mismanagement by the community. Ongoing training and awareness is vital to the success of the project.

Should the proposal work it will provide a low tech, cost effective, environmentally friendly solution that can be rolled out to other informal areas in the Western Cape.

The concept of community managed infrastructure is also new. It might be a challenge to manage the community and their expectations. Strong political leadership will be required.

There is risk in the fact that if the pilot fails the community will get upset and demand an alternative service. Council might not be in a position to render an alternative service at that time.

At this stage it is unclear under which department this new function should fall. The following skills are needed:

- Community Management
- Horticulture – maintain plants and trees
- Pipe Repairs
- Cleaning of grids

The Water Services Section does not have the necessary skills and capacity for the maintenance and upkeep of the project should it be implemented.

Project 2: Franschhoek Sustainable Drainage Systems (SuDS) Centre.

[Chairperson: Engineering Services: Alderman DC Botha]

The new Wemmershoek Waste Water Treatment works is nearing its completion. On 18 August 2014 all waste water inflow was diverted from the Franschoek WWTW to the Wemmershoek WWTW for the wet commissioning trial period. For the next three (3) months the old Franschoek WWTW will be decommissioned, cleaned and rehabilitated but the existing two Prentec Tanks with SBR process will be kept as emergency backup should any problems occur during the defects liability period. Provision was made in the 2016/2017 Capital budget to relocate these tanks to either the Klapmuts WWTW or Pniel WWTW.

The treated effluent from the new Wemmershoek WWTW will be pumped to some of the existing ponds at Franschoek WWTW. These ponds will (after being cleaned) serve as storage dams for irrigation purposes for registered end users and are not available for Biomimicry. The ponds being converted to storage ponds will be:

1. Effluent pond directly behind the office building; and
2. The two current sludge lagoons on the opposite side of the Stibeuel River adjacent the two Prentec tanks.

A detail plan indicating the spatial layout of the pilot Biomimicry must be submitted for approval.

6.4 Acting Director: Human Settlement & Property Management

This Department supports the recommendations contained in this report

6.5 Directorate: Public Safety & Community Services (Manager: Community Services)

The Department Community Services supports the MOU and all the projects emanating from the US agreement.

6.6 Chief Financial Officer

No budget provision has been made for this project and will be considered during the adjustment budget process.

6.7 Directorate: Strategic & Corporate Services (Legal)

Legislative framework

South Africa's status as a water-scarce country is reflected in the formulation of the legislative framework pertaining to water. This legislation has placed emphasis on water scarcity and the effective management of national resources coupled with the need to rectify

[Chairperson: Engineering Services: Alderman DC Botha]

historical inequities and promote justice and equality in the availability and use of water resources.

The three principal sources of national water legislation are the Constitution of the Republic of South Africa Act 108 of 1996, the National Water Act 36 of 1998 and the Water Services Act 108 of 1997. *The executive power to deliver water and sanitation services falls, in terms of the Constitution, on local government.(my emphasis)*The statutory legislative framework for effective management of local government consists of the Local Government: Municipal Structures Act 117 of 1998, the Local Government: Municipal Systems Act 32 of 2000 and the Local Government: Municipal Finance Management Act 56 of 2003.

Constitutional rights

The founding provisions of the Constitution open with the values on which the state is founded and list the first of these as “human dignity, the achievement of equality and the advancement of human rights and freedoms”

The founding provisions further establish the supremacy of the Constitution over all other South African legislation and require that “the state must respect, protect, promote and fulfil the rights in the Bill of Rights”

Sections 24 and 27 of the Bill of Rights in the Constitution grant specific rights to access to sufficient water, an environment not harmful to health and well-being and the protection of the environment from degradation. The right to basic sanitation is not an explicit constitutional right. However, the right to sanitation could be derived from the right to a clean environment read together with the right of access to clean water. Many other constitutional rights in the Bill of Rights overlap with and support rights to water and sanitation. These include the right to equality, the right to dignity and rights of access to information and just administrative action

The Constitution provides for three spheres of government and sets out the functions of these three distinctive, interdependent and interrelated spheres. The principles of cooperative governance provide that all interactions between the three spheres of government must play out in a coordinated and cooperative manner.

The National Water Act

The National Water Act (NWA) reaffirms the role of the state by confirming in Section 3 that “as the public trustee of the nation’s water resources the National Government, acting through the

[Chairperson: Engineering Services: Alderman DC Botha]

Minister, must ensure that water is protected, used, developed, conserved, managed and controlled in a sustainable and equitable manner, for the benefit of all persons and in accordance with its constitutional mandate.” The NWA provides the legal framework for the management of water resources, which includes the allocation of water for beneficial use and the redistribution of water.

The Water Services Act

The NWA is required to be read with the Water Services Act (WSA), which is “the primary legal instrument relating to the accessibility and provision of water services (which include drinking water and sanitation services)”. In terms of the WSA, the responsibility for ensuring access to water services lies with water services authorities (municipalities). It is the responsibility of water services authorities (through water services providers) to ensure access to both water supply services and sanitation services.

The Local Government: Municipal Structures Act

The Local Government: Municipal Structures Act (Structures Act) provides for the establishment of municipalities and the divisions of functions and powers between categories of municipalities. Categorised into metropolitan, local or district, each municipality is required to review the needs of the community, its priorities to meet these needs, processes for involving the community, organisational and delivery mechanisms for meeting the needs and its overall performance in achieving the objectives.

The Local Government: Municipal Systems Act

The Local Government: Municipal Systems Act (Systems Act) provides for the core principles, framework and procedures to enable municipalities to uplift their communities socially and economically and guarantee affordable universal access to basic services. The Systems Act refers to the provision of basic municipal services, which mean municipal service that is necessary to ensure an acceptable and reasonable quality of life and without which public health or environmental safety would be at risk.

The National Environmental Management Act

The National Environmental Management Act (Nema) provides an overarching framework for the regulation and sustainable use of natural resources in South Africa. The Nema is crucial in terms of implementing the constitutional provisions on cooperative governance in environmental matters. It creates the institutional set-up for the development of norms and standards for the

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implementation of the environmental legislation and provides for generic monitoring and enforcement provisions. Among these are the duty of care provisions and obligations to control and remedy pollution generally. In conjunction with the NWA, the Nema provides an avenue to regulate and control water pollution and promote the fulfilment of the right to an environment not harmful to health or well-being. Importantly, it also creates a specialised enforcement unit of environmental management inspectors charged specifically with the enforcement of environmental management legislation

Cognisance must be taken of Section 80(e) of the NWA which advises the promotion of community “participation in the protection, use, development, conservation, management and control of the water resources in its water management area”.

Though it is not an exhaustive list, it is important that due consideration be given to the abovementioned legislative framework.

The item is supported. There is a myriad of legislation which governs the intention behind the River improvement plan. The economic-social upliftment and job creation opportunities which may flow from this agreement is noteworthy. It is important that the agreement be monitored to ensure the success especially bearing in mind that the Provincial government will bear the costs thereof. The municipality act reasonably to ensure that water services are provided in a manner that is efficient, equitable and sustainable; and strive to provide such services for subsistence and sustainable economic activity.

RECOMMENDED

- (a) that the Genius of Place pilot project in Langrug, be supported;
- (b) that budget provision be made for the project;
- (c) that provision be made on the Staff Establishment of Council for the staff and new function;
- (d) that a report be submitted at the end of the pilot period to determine the long term commitment of Council; and
- (e) that the Municipal Manager be authorised to conclude a Memorandum of Agreement in this regard.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Engineering Services: Alderman DC Botha]

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 6.1.5**

RECOMMENDED

- (a) that the Genius of Place pilot project in Langrug, be supported;
- (b) that budget provision be made for the project;
- (c) that provision be made on the Staff Establishment of Council for the staff and new function;
- (d) that a report be submitted at the end of the pilot period to determine the long term commitment of Council; and
- (e) that the Municipal Manager be authorised to conclude a Memorandum of Agreement in this regard.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE MEETING 2014-11-05

[Chairperson: Engineering Services: Alderman DC Botha]

6.2 DELEGATED MATTERS

6.2.1 AMEU CONFERENCE

File number : 8/1/Engineering
Compiled by : Acting Manager: Electrical Services
Report by : Director: Engineering Services
Delegated Authority : Engineering Services and Human Settlements Committee

Strategic intent of item

Preferred investment destination	<input type="checkbox"/>
Greenest municipality	<input type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE OF REPORT

To inform the Committee of the conference of the Association of Municipal Energy Undertakings (AMEU) held at Gallagher Estate Midrand from 6-8 October 2014.

2. BACKGROUND

Stellenbosch Municipality is a member of the AMEU and the conference is attended annually by staff members of the Electrical Department to keep abreast with the latest technological developments.

3. DISCUSSION

The conference was hosted by City Power Johannesburg in Gallagher convention centre Midrand.

The disappointment of the event was that no one of the two ministers, Minister of Energy Joemat- Pettersson, the first day and Minister of Public Enterprises Lynne Brown, second day, turned up to deliver their respective Keynote addresses.

[Chairperson: Engineering Services: Alderman DC Botha]

The new president of the AMEU Mr Sicelo Xulu from City Power Johannesburg was inaugurated at the start of the proceeding.

(a) Theft

A round table discussion between different role-players took place regarding the enormous theft problem. In the past few years, infrastructure and component theft of electricity has grown to become a crippling act that shuts down economic activity. Last year alone the country spent over R300 million on the replacement of cable theft and electrical infrastructure. Hundreds of businesses are being forced to close shop, shedding jobs in the process. Investors are scaling down on much needed investments due to criminally motivated power supply interruptions.

A strong message will also be sent to Government to do whatever possible to address this problem.

(b) Smart Grid

“Smart grid” was an important topic and was focused mainly on smart meters, a meter that among others can receive commands and transmit data back to the central controller. Landis+Gyr, one of the main sponsors of the event also did the launch of their first smart prepay meter for both single and three phase. Amongst many other features the meter can also do “time of use” metering, something that was not available before.

(c) Tariffs

Discussions on tariffs referred to the policy of NERSA to implement Inclined Block tariffs (IBT). It was agreed by the speakers that this is not the best option available and that Municipalities should rather opt to implement time of use tariffs for domestic consumers. NERSA was also present and it is hoped that they will reconsider their policies based on the input by the industry.

(d) Embedded generation

Generation of electricity by consumers for own use as well as to feedback into the grid was a favourite topic. It was mentioned that PV panels (generation of electricity from the sun) are still falling in price and that it took over from wind energy in 2013 as the leading alternative energy supplier. The effect it can have on the income of Municipalities is a worrying factor for all and a suggestion was made that consumers should be restricted to only

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generate 25% max of their normal demand. Stellenbosch is currently doing the financial impact study and will consider these inputs.

(e) LED Lights

Compared to a year ago where hardly any reference was made to LED streetlights, it was a surprise to see that this year only LED streetlights were displayed in the exhibition Hall. The prices of the light fittings are now competitive and the saving on power consumption is in the region of 40%-50%. All municipalities including Stellenbosch are therefore changing over to the installation of LED streetlights. Stellenbosch installed energy efficient lighting two years ago and look forward to further improvement of efficiencies by switching to LED over time.

(f) Network planning and Management

Papers on this topic emphasize that networks should be planned and managed to be stable and effective and at the same time keep losses to the minimum. Some of the most important factors to consider are the long-term performance of networks and the maintenance costs.

(g) Safety

The new OHS act construction regulations were discussed and Municipalities were encouraged to make sure that they do adhere to these new regulations.

An accident was discussed where an Electrician was killed and his assistant severely burnt. This happened after an 11kV switching operation, when the electrician attempted to test whether the cable he switched off was dead and safe to work on. A severe flash was triggered which literally burnt him to death. It was established afterwards that in spite of safety procedures four actions went wrong for this incident to happen. These safety issues will be discussed in the Engineering Services Management Team to determine how best to improve internal systems.

4. CONCLUSION

This was a well-planned conference where all the important topics were discussed. The exhibition of equipment and material was the biggest ever where new and improved equipment used in the electrical industry were showcased. Various lessons learnt will be brought into the management framework in Stellenbosch.

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Engineering Services: Alderman DC Botha]

RECOMMENDED

that the report from the Acting Manager: Electrical Services on the AMEU Conference, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 6.2.1**

RESOLVED (nem con)

that the report from the Acting Manager: Electrical Services on the AMEU Conference, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Engineering Services: Alderman DC Botha]

**6.2.2 INVITATION TO NORWAY: WASTEWATER, BIOGAS & SLUDGE
MANAGEMENT STUDY TOUR**

File number : 8/1 Engineering Services
Compiled by : Head Water & Waste Water Treatment
Report by : Director: Engineering Services
Delegated Authority : Engineering Portfolio Committee

Strategic intent of item

Preferred investment destination	<input checked="" type="checkbox"/>
Greenest municipality	<input checked="" type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input checked="" type="checkbox"/>
Good Governance	<input type="checkbox"/>

1. PURPOSE OF REPORT

To report back on the visit to NORWAY: Wastewater, Biogas & Sludge Management Study Tour, Oslo - August 2014.

2. BACKGROUND

During the 4th WISA Conference for Drinking Water Quality in Mbombelo, June 2014 the Water and Waste Water Expo was visited and the Cambi technology was identified as a possible solution for future sludge treatment in Stellenbosch as the Innovation Capital of South Africa, specifically with Klappmuts as Green Hub in mind. This world-leading technology is used to convert sludge and bio-waste to biogas, using a unique pre-treatment method, the Thermal Hydrolysis Process (THP).

Cambi as part of Innovation Norway initiated a study tour. Innovation Norway, the Commercial Section of the Royal Norwegian Embassy and Vannklyngen (The Water Cluster) then invited participants from South Africa to attend a workshop at the Oslo Municipality and site visits of some of the major plants in Norway dealing with wastewater, biogas and sludge management and also meeting companies in Norway involved in this sector.

[Chairperson: Engineering Services: Alderman DC Botha]

The Oslo, Norway study tour commenced on Monday, 25 August 2014 and lasted until Friday, 29 August 2014. Ten South Africans took part in this very informative study tour.



City Hall, Oslo



Workshop

The following companies were visited:

- Factory visit to HIAS Sewage Treatment Plant, Hamar
- Factory visit to Romerike Biogassanlegg
- Factory visit to Bekkelgat Sewerage Plant
- Factory Visit to Raufoss Industripark

3. DISCUSSION

(a) Factory visit to HIAS Sewage Treatment Plant, Hamar

The HIAS Sewage Treatment Plant serves the city of Hamar with 90 000 people and has successfully operated a Cambi installation since 1995 to treat 3 600 tons of sludge. Due to the popularity of the process and the stable end product HIAS has been starting to import sludge from neighboring counties and selling the digested sludge back to the agriculture sector.



HIAS Sewage Treatment Plant



Truck delivery sludge

[Chairperson: Engineering Services: Alderman DC Botha]

The Cambi application or Thermal Hydrolysis Process (THP), “turbo-charges” both existing and new biogas plants by using steam generated from gas harvested at landfill sites or waste water treatment works to pressure-cook materials before anaerobic digestion. Some of the advantages of THP include:

- (i) Reducing digester volume and construction cost, as well as saving space or increasing existing capacity.
- (ii) Increased biogas production. The biogas produced is clean and carbon-neutral, resulting in no additional CO₂ emissions and virtually no other emissions to air when used in a gas engine/turbine to produce renewable electricity.
- (iii) A pathogen-free and stabilized end product (Class A cake). The end product can either be applied as bio-fertilizer or dried, to be used as bio-fuel.
- (iv) Significantly improved sludge dewaterability, saving both transport and energy costs, whether using the final product for agriculture or for drying/incineration.
- (v) Significantly reduced carbon footprint.
- (vi) Most of the Cambi THP plants produce electricity from biogas in cogeneration plants. Only a small fraction of the produced electricity is consumed by the THP plant itself. The boosted cogeneration covers a significant part of the electricity need in the wastewater treatment plant, with surplus sold as renewable electricity.
- (vii) More than double the digester loading with shorter retention time.

The Bucher Unipektin filter was very impressive. It is a belt press originally designed to make fruit juice but adapted to treat digested sludge to an odorless, a soil like end product.

[Chairperson: Engineering Services: Alderman DC Botha]



Bucher Unipektin belt press



Soil like end product

(b) Factory visit to Romerike Biogassanlegg

The Romerike Biogassanlegg also uses the Cambi THP process to treat 50 000 tons of food waste per annum to produce:

1. 27 000 tons of bio fertilizer for 100 medium sized farmers
2. Biogas fuel (replacing diesel) for 135 City buses

This turnkey biogas plant was commissioned in 2011 and constructed costing \$ 65 million. Food waste are collected and source separated in special green plastic bags by residents and collected by refuse removal companies before delivering it to Romerike.



Romerike biogassanlegg



Biogas collection tank

[Chairperson: Engineering Services: Alderman DC Botha]



Food waste in green bags



Cambi process

(c) Factory visit to Bekkelgat Sewerage Plant

The Bekkelgat Sewage Plant has a design flow of 125 million liters a day and serves 350 000 people. It was built in 2000 for \$60 million. The whole treatment plant is built in rock with the exception of the administration building. This was done to limit disturbance to the environment and residents.



Bekkelgat Sewerage Plant



Inline testing and auto sampling

(d) Factory Visit to Raufoss Industripark

[Chairperson: Engineering Services: Alderman DC Botha]

Raufoss Water & Gas AS is Europe's leading supplier of water pipe couplings. The brand is called "isiflo". The factory and administration is located at Raufoss. The factory is located in an industry park with almost 150 years of exciting history and is entitled as one of the Norwegian Centers of Expertise (NCE).

One adapter for ALL kinds of pipes has the following advantages:

1. Quick and easy to install
2. New dimension of flexibility
3. Low installation force
4. No special tools
5. For all kind of pipes, easy reducing to smaller sizes
6. To be mounted on all kinds of ISIFLO brass couplings
7. Made from very durable composite material (same as space rockets)
8. Composite has no second hand/ re-sale value, making it the ideal material for South African situation



Fittings made of composite material



Reducers made of composite material

The technology seen during the study tour can be considered at Klapmuts and Pniel WWTW where Stellenbosch Municipality needs to upgrade in the next three years, subject to a cost benefit analysis. These technologies experienced, fit very nicely into the planned Green Hub in Klapmuts where additional sludge from Wemmershoek WWTW and Pniel WWTW can be imported to generate biogas for further use and cogeneration with other recycled material and food waste. The by product can be used as compost and or direct land application by farmers. The technologies will not form part of the existing contract for the extension of the Stellenbosch Wastewater Treatment Works.

It will be useful to investigate the feasibility of the technologies for consideration for future upgrades because although its very high

[Chairperson: Engineering Services: Alderman DC Botha]

capital outlay, running and maintenance cost and high skills level needed for operation and maintenance, these types of technology have a very small footprint, re-use opportunities are vast, income can be generated and ultimately the environment can be protected.

RECOMMENDED

that the feedback report on the visit to Oslo by the Head: Water & Wastewater Treatment, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 6.2.2**

RESOLVED (nem con)

that the feedback report on the visit to Oslo by the Head: Water & Wastewater Treatment, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Engineering Services: Alderman DC Botha]

6.2.3 YOUTH IN WASTE

File number : 8/1 Engineering Services
Compiled by : Manager: Solid Waste Management
Report by : Director: Engineering Services
Delegated Authority : Engineering Services & Human Settlements
 Portfolio Committee

Strategic intent of item

Preferred investment destination	<input type="checkbox"/>
Greenest municipality	<input checked="" type="checkbox"/>
Safest valley	<input type="checkbox"/>
Dignified Living	<input type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE OF REPORT

To inform this Committee of the project to be implemented in the Western Cape that will grant unemployed youth in the local community an opportunity in waste management activities.

2. BACKGROUND

The Department of Environmental Affairs (DEA), through its Environmental Protection and Infrastructure Programmes (EPIP) and Expanded Public Works Programme (EPWP) commenced with a national project that would employ youth to assist municipalities in waste management in the following areas:

- (a) Landfill site operations
- (b) Waste collection administration
- (c) Environmental education & awareness campaigns
- (d) General duties

The commencement date of the project was 12 February 2014 (Phase 1) and ends on 30 September 2015. In the Western Cape this project is rolled out to 24 local municipalities, and Tedcor has been appointed as the project implementer on behalf of DEA. A total of 471 workers will be employed, of which 55% must be women, 100% youths

[Chairperson: Engineering Services: Alderman DC Botha]

between the ages of 18-35 years of age, 2% disabled and 90% must be from the local community. Tedcor plans to roll out the Western Cape programme effective 1 September 2014.

3. DISCUSSION

Stellenbosch Municipality has been granted 22 workers, of which 2 would be assisting the landfill site supervisor, 4 would be deployed in waste collection administration, 8 in environmental awareness campaigns, and 8 would be general workers.

Remuneration would be from the project implementer, and R140/day would be paid to the skilled workers, and R82/day to the general workers. These rates were determined by DEA. At the time of compiling this report, Tedcor was in the process of advertising and recruiting skilled workers from the community. Advertisements were placed in the local libraries and notice-boards.

Tedcor wants to commence with the Western Cape roll-out phase of the project by 1 September 2014. The additional staff will be employed where there will not only be a skills transfer to the youth, but the municipality's capacity constraint burden can be alleviated over this 12 month period for improved cleaning and waste management in the municipality. The general workers will be allocated mainly to the informal areas to boost the cleaning capacity, the environmental awareness group will be utilised in event greening and promotion of waste minimisation, the administrative staff would be used at the Beltana facility and the two landfill staff will be based at the Devon Valley landfill site.

4. LEGAL IMPLICATION

The report is legally compliant.

5. FINANCIAL IMPLICATION

Finance supports the Item as it has no financial implication on Council as a third party recruit, employ and manage the temporary staff. No employment expectation by the Municipality should be created.

6. COMMENTS FROM OTHER RELEVANT DEPARTMENTS

6.1 Planning & Local Economic Development

The Planning Department of Stellenbosch Municipality is also involved through the Local Economic Development (LED) office and the EPWP office.

[Chairperson: Engineering Services: Alderman DC Botha]

6.2 Directorate: Strategic & Corporate Services

6.2.1 Human Resources

Youth workers have already been appointed by Province and operate independently. There are no human resources obligation. This project is supported by the Manager: Human Resources.

RECOMMENDED

- (a) that the contents of the Youth in Waste report, be noted; and
- (b) that Stellenbosch Municipality actively participates in the project.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 6.2.3**

RESOLVED (nem con)

- (a) that the contents of the Youth in Waste report, be noted; and
- (b) that Stellenbosch Municipality actively participates in the project.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Engineering Services: Alderman DC Botha]

6.2.4 MONTHLY REPORT SEPTEMBER 2014 – ENGINEERING SERVICES

File number : 8/1/Engineering Services
Compiled by : Senior Administrative Officer – Office Management
Report by : Director: Engineering Services
Delegated Authority : Engineering Portfolio Committee

Strategic intent of item

Preferred investment destination	<input checked="" type="checkbox"/>
Greenest municipality	<input checked="" type="checkbox"/>
Safest valley	<input checked="" type="checkbox"/>
Dignified Living	<input checked="" type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE

To inform this Committee of monthly activities in the Directorate: Engineering Services. The report on the monthly review in respect of SEPTEMBER 2014 is attached as **APPENDIX 1A-1F**.

**2.1 OFFICE OF THE DIRECTOR
Innovation and Infrastructure Committee (IIC)**

The Directorate: Engineering Services participates in the IIC meetings and reports to the Engineering Portfolio Committee on the activities and progress of the ICC on a regular basis, in terms of the Terms of Reference of the Committee.

The aim of the IIC is to ensure that an integrated and sustainable Strategic Infrastructure Plan (SIP) is developed for Stellenbosch that addresses the infrastructure backlogs of the Greater Stellenbosch area. The SIP needs to be linked to a sustainable Financial Plan (FP) to ensure delivery of services. This, however, can only be achieved if green economy-oriented innovations and inventive solutions away from “business as usual” are given the uppermost priority. This process innovation to formulate an SIP and FP has to combine knowledge and capacity from the Administration; the University; and Business.

[Chairperson: Engineering Services: Alderman DC Botha]

The solutions considered by the IIC will have a marked emphasis on innovation, in recognition for the ever changing technological environment, and moving away from “business-as-usual”.

As reported last month, the IIC in its recent sessions focused on producing some strategic guidance for the municipality in terms of finding spatial solutions which could, via the SDF, provide direction for development in Stellenbosch over the next 30 years. In this regard the IIC integrates with the Shaping Stellenbosch project as well as through the feasibility study for the Transit Orientated Development project.

The IIC has as reported last month, finalized its Quo Vadis document, the report having been submitted to this Committee under separate cover, at its previous meeting.

The parallel focus of the IIC is to undertake studies into critical issues, via a mechanism of utilizing Working Groups. The updated Terms of Reference of the majority of Working Groups has been finalized. Typical studies by the technical Working Groups will include the study to determine the financial impact on Council of the proposed alternate energy source policy. It has also been agreed to initiate an ICT Working Group. An industry specialist will be invited to address the meeting in this regard, to provide guidance.

2014/15 Strategic Projects and Initiatives

Standard Operating Procedures (SOP) Project

The following have been implemented in the Engineering Services Directorate to contribute to the clean audit action plan: Updating of departmental S.O.P.'s. Engineering Services actively took part in the SOP compilation specifications, advertisement of a tender, technical evaluation and the awarding of the tender. The tender was awarded (SOP TENDER BSM24/14) for a professional service provider (Ignite) to review current SOP's in place and to compile new SOP's for the whole of the Stellenbosch Municipality. 100 SOPs were identified from the 276 suggested SOPs received (the contract only allows for the drafting of 100 SOPs by the consultant). Training took place during February 2014. The final SOP product has been returned to the Municipality for approval by the Municipal Manager and Directors and subsequent implementation.

**MINUTES ENGINEERING SERVICES AND HUMAN SETTLEMENTS 2014-11-05
COMMITTEE MEETING**

[Chairperson: Engineering Services: Alderman DC Botha]

Vacancies

The Office Assistant position has been advertised, shortlist has been compiled and interviews will follow soon.

2.2 ELECTRICAL SERVICES

Operations

As an essential service, electrical supply and service delivery is the main priority for Electrical Services. No serious power outages were experienced.

Capital Projects

Capital Expenditure progress is reflected in the Section 71 report attached as **Annexure G**.

PROJECT DESCRIPTION	STATUS	CHALLENGES
Electricity Demand Side Management (Geysers Control)	Implementation completed. Test runs will start in October 2014.	
Electricity Demandside Management (More effective street lights)	DOE funding used to replace streetlights with LED lights	

2014/15 Strategic Projects and Initiatives

Reduce Electrical losses:

The Department is continuously auditing electricity meters to stop electricity theft and rectify faulty meters. The Department is also replacing all common base pre-payment meters with the “split” pre-payment meter to prevent theft of electricity.

Alternative energy:

The policy on selfgeneration of electricity is completed. The University of Stellenbosch is in consultation with the Municipality collaborating to determine the financial impact this will have on the Stellenbosch Municipality and to prepare a report in this regard.

[Chairperson: Engineering Services: Alderman DC Botha]

Challenges/areas where department is not adhering to legislation

Illegal connections not disconnected regularly due to insufficient staff capacity as well as safety of personnel. Access to properties are restricted and dangerous. Cable theft and substation vandalism were experienced and alarm systems are being installed. Thefts were reported to SAPS.

Reporting on Events/Programmes/ Projects

None

Human Resources

Mr Johannes Coetzee, Acting Manager: Electrical Services' contract has been extended until 9 November 2014. Adverts were placed for the following vacant posts placed except for the Clerk position.

Vacancies: 6

Electrician x 2 (Ex H Rix and Ex G Abrahams)
Operator x 1 (Ex C Isaacs)
Support Assistant x 1
General Worker x 1 (Ex S Waka)
Clerk x 1 (Ex E Booyesen)

Occupational Health and Safety

No OHS meeting took place during September 2014.

Incidents:

None

Training

None

Risks identified and corrective measures

Risk: Electrical Department staff are sometimes threatened and prevented from performing their work. Smartie Town, Cloetesville has been identified as one of the problematic area.

Corrective Measures: The assistance of Law Enforcement are called in but it is not a long term solution.

Risk: Scarcity of electricity.

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Corrective Measures: Demand Side Management projects to encourage consumers to use less energy. Promoting energy efficiency and saving within the community.

Risk: Shortage of technical staff – The Department is experiencing a critical shortage of technical staff and service delivery is hampered. The public are getting annoyed and are dissatisfied with the service because customer complaints are not addressed effectively. In an attempt to address all the complaints as effectively as possible, employees are requested to work overtime and permissible maximum overtime are exceeded. Employees are also performing standby duties for longer than the approved 14 days allowed for standby.

Corrective Measure: The shortage of staff must be addressed as a matter of urgency.

Risk: Vandalism/Theft - Vandalism and theft of metal were experienced.

Corrective measures: Alarm systems are being installed. Incidents were reported to SAPS.

2.3 WATER SERVICES

Operations

Water is the most fundamental and indispensable of natural resources – fundamental to life, the environment, food production and hygiene. Poverty reduction and improved water management are inextricably linked. Regular site inspections, routine repairs and maintenance are done on a daily basis to ensure that the water network operates effectively. With various vacant positions, the Department makes every effort to supply an efficient service to the public. The Department: Water Services is currently preparing for the Blue and Green Drop evaluations.

Capital Projects

Most of the Capital Projects are in line with the Service Delivery Budget Implementation Plans (SDBIP) of the Department.

Flagship Projects

PROJECT DESCRIPTION	STATUS	CHALLENGES
Upgrade Waste Water Treatment Works (Franschoek/Wemmershoek) Phase 3	Project completed. Busy with commissioning and	None

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	testing of new WWTW	
Extension of Waste Water Treatment Works: Stellenbosch	<p>Refurbishment project 100% completed.</p> <p>Emergency phase of extended refurbishment contract for the Stellenbosch WWTW is in progress and 70% complete.</p> <p>Mechanical and Electrical tender for the Extension of the Stellenbosch WWTW was advertised on 27/10/2014 with closing date 20/11/2014 and the tender for the Civil Works on 24/10/2014 with closing date of 01/12/2014.</p>	Rain delays
Water Pipe Replacement	<p>Construction work 100% completed.</p> <p>In process to appoint new consultant for next phase.</p>	None
Bulk Water Supply Pipe Cloetesville / Idas Valley	Project in progress and 45% completed.	None

2014/15 Strategic Projects and Initiatives

Waste Water Reduction:

Re-use of waste water reduction initiatives are currently under investigation and addressed with the upgrading of the Stellenbosch Waste Water Works and the **Wemmershoek WWTW**.

Risks identified and corrective measures:

Risk: Urgent need for security services at all Water & Waste Water Treatment works

Corrective Measure: Public Safety & Community Services will be approached to assist with the implementation of security services at the plants.

Risk: Possible scarcity of water during summer months

Corrective measures: Water restriction plan in place. Promoting water conservation techniques in the community. Water conservation demand management plan to be implemented. Upgrade of various Reservoirs and Works are in process (Capital Projects).

[Chairperson: Engineering Services: Alderman DC Botha]

Vandalism/Theft

None

Challenges/areas where department is not adhering to legislation

Hydraulic and organic load on waste water systems due to the exceeding of the currently design capacity of the waste water works

Reporting on Events/Programmes/ Projects

None

Human Resources:

A total of 58 positions are vacant and are in the process of being advertised:

Water Reticulation – 36 Positions

33 x General Workers

- 1 x Principle Technician (Advertised)
- 1 x Superintendent: Sewerage Network
- 1 x Artisan
- 1 x Leading

Waste Water Treatment Works – 22 Positions

- 1 x Process Controllers Class V
- 1 x Clerk
- 1 x Senior Clerk
- 1x Superintendent : Rural
- 10 x Shift workers
- 4 x General Workers
- 1 x Handyman
- 1 x Pollution Control Officer
- 1 x Water Quality Officer
- 1 x Process Controller Class IV

LED/EPWP WORKERS

Operational

Contracts of 8 EPWP workers that asissts with the refurbishment and general maintenance at Waste Water Treatment Works were extended for two months from 13 October 2014 until 13 December 2014.

Training

None

Occupational Health and Safety

Meeting held on 30 September 2014

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Incidents: 2 – Back injuries (D Oktober and W Van Kerwel)

2.4 TRANSPORT, ROADS & STORMWATER

Operations

Operational teams continue to clear and repair stormwater infrastructure as well as maintaining road surfaces by undertaking patch repairs.

Stormwater Management Programme

This department still awaits the approval for works to be carried out on the Stiebeuel River. Approval for the works to be carried out on river banks, is still required from the Department of Water Affairs.

Pedestrian and cycle paths

No new sidewalks were built.

NMT Upgrades (Provincial funding for R44 NMT Facility to Jamestown)

This department still awaits approval for funding for which an application was submitted to the Department Transport & Public Works in October 2013 to complete the rest of the facility in Jamestown.

Pavement (Roads) Management Programme

Consultants have been appointed, and planning and assessments are underway for the implementation of the Municipality's 2014 – 2015 road rehabilitation programme.

It had come to light, that a contractor appointed by the Municipality to implement part of its 2013 - 2014 road rehabilitation programme, had been falsifying test results. This has been admitted by the contractor who undertook to provide their full co-operation during the subsequent investigations. On conclusion of the investigation, and in terms of our standard contractual procedures, reduced payment were affected on certain rehabilitated roadways and in other cases, sections of rehabilitated roadways were rejected, with no payment. Generally the life cycle of rehabilitated roadways are between 10 and 20 years, however certain roads rehabilitated during the 2013-2014 financial year might have a reduced life cycle. The contractors payment has been reduced and in some instances no payment was made to reduce the risk to the Municipality.

[Chairperson: Engineering Services: Alderman DC Botha]

Capital Projects

Consultants appointment are in process, for certain capital projects, consultant appointment have been concluded, and planning and assessment works are currently being undertaken.

2014/15 Strategic Projects and Initiatives

Transit Oriented Development (Transport)

As part of the plan to address the traffic congestion problem in Stellenbosch this department has embarked on the process to investigate the feasibility of a Transit Orientated Development. A TOD is a development concept that focuses on land use planning to support transport initiatives. It will entail the densification of areas and the direction of development along transport corridors. This study needs to investigate the following:

- North South mobility through Stellenbosch
- Utilisation of the rail system
- Development potential and land use around this precinct
- Parking
- NMT
- Transport integration
- Modal interchange, etc

The outcome will be a feasibility study on a proposed land use and transport model. This document will guide the Municipality in terms of land use planning and transport initiatives. This project has the potential to integrate communities by breaking down barriers like the R44 and the railway line.

A concept development plan has been compiled and is currently being discussed internally. This scenario-based approach will be reported to Council with the submission of a feasibility report.

Traffic congestion mitigation

The Manager TRS attended an IPC (Integrated Modal Planning Committee meeting) at the City of Cape Town. The purpose of the meeting was to discuss all regional transport matters between the neighboring municipalities. At the meeting the Transport for Cape Town CITP was presented as well as their Integrated Public Transport Network Plan (IPTN). The concept of a TOD is also being investigated

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for the City of Cape Town. The need to combine efforts in the development of the concept and the future workings of the TOD was acknowledged. A TOD workshop is planned for October to discuss the TOD concept with external roleplayers. The Manager TRS will present to the City of Cape Town officials what the Stellenbosch TOD entails.

Human Resources

The positions of Bricklayer and Workers was advertised and is currently in the selection process.

Vacancies:

Bricklayer x 1

Workers x 2

Occupational Health and Safety

Monthly OHS meeting was held on 22 September 2014.

Incidents: No serious incidents were reported at the meeting held on 22 September 2014.

Training

No training occurred in the month of September 2014.

Reporting on Events/Programmes/ Projects

This department has no events and programmes to report on. All projects are registered and monitored on IMQS.

Challenges/areas where department is not adhering to legislation

1. Acquiring relevant legislative approval to carry out works associated to Stormwater Management within river courses. Legislation is being interpreted in a manner that, allows for unsafe conditions to exist within communities and prohibits the Municipality from carrying out its responsibilities with regard to duty of care.
2. Stormwater courses on private property in not being maintained by relevant owner(s). Municipality does not have authority to instruct owners to carry out maintenance on stormwater courses.

Risks identified and corrective measures

1. Ineffective use of vacuum street sweeper for the cleaning of stormwater channels results in extra work for the stormwater catchpit cleansing teams and contributes to localized flooding.

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2. Staff carrying out work on stormwater infrastructure in Kayamandi are threatened with violence.

Corrective Measures:

1. Vacuum street sweeper is now being utilized more effectively under the supervision of Stormwater staff which ensures better co-ordination of municipal resources. The responsibilities in terms of street sweeping still needs to be clarified with the relevant department.
2. Roads and stormwater staff approached the residents and relevant Councillor. All parties agreed that area is safe for Municipal official to carry out their duties. Situation in Kayamandi will continue to be monitored, staff had been instructed to withdraw immediately should there be any threats of violence.

Vandalism/Theft

In Klapmuts, the theft of stone from gabion structures continues. Theft of these stone could result in flooding and damage to property.

The department is experiencing a continuous theft of manhole covers and grids and it is difficult to keep up with the replacement of stolen manhole covers and grids due to the unusual volume of theft and vandalism.

2.5 SOLID WASTE MANAGEMENT

Operations

A tender process will follow to address the potential of beneficiating processing of the clay and rubble on the landfill site.

Capital Projects

Jan Palm Consulting Engineering is busy with the draft design for rehabilitation capping. The soil for potential capping material was tested but unfortunately failed for suitable capping material. Due to capacity constraints in the Supply Chain Management and Solid Waste Management, Capital Projects are not in line with the Service Delivery Budget Implementation Plans of the Department. All projects are registered and monitored on the IMQS. Aurecon has been appointed for the rehabilitation and capping of cell one and two.

[Chairperson: Engineering Services: Alderman DC Botha]

Flagship Projects

PROJECT DESCRIPTION	STATUS	CHALLENGES
None		Due to capacity constraints in the Solid Waste Management, Capital Projects are not in line with the Service Delivery Budget Implementation Plans of the Department. Remedial steps were taken to ensure optimal expenditure.

2014/15 Strategic Projects and Initiatives

- **Mini MRF Pilot project**
Formal quotation has been advertised and site meeting held. Awaits a BEC and BAC date.
- **Recycling pilot project. (Seperation at source)**
Attached statistics (**APPENDIX 1E**) reflect the activities for September 2014.

Risks identified and corrective measures

Risk: Appropriate resources to execute tasks and service delivery options must seriously be addressed in order to prevent service delivery caesura.

Corrective measures: Recommended candidate to be appointed.

Vandalism/Theft

None

Reporting on Events/Programmes/ Projects:

This department had no events and programmes during September 2014 to report on.

Challenges/areas where department is not adhering to legislation:

Due to lack of monitoring of stormwater and leachate quality, not all permit conditions are being adhered to. Samples will be analysed by an accredited laboratory for leachate and stormwater quality. The analysis must be completed by 15 January 2015 in order to comply with the permit conditions.

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Human Resources

The two vacant operator positions were advertised and is in the selection process. Two workers and Supervisor at the Landfill site resigned the end of September 2014.

LED/EPWP Workers

Operational

Solid Waste Management x 24 Contract workers

7x EPWP workers

Contract workers' contracts in the Solid Waste Management Department expired at the end of June 2014. The contracts were extended until September 2014.

Vacancies

Operators x 2

Training

No training occurred during the month of September 2014.

Occupational Health and Safety

Monthly OHS meeting was held on 23 September 2014. All staff that are exposed to chemical and hazardous material went for medical assessments and a detailed report will be submitted to the Human Resources Department.

Incidents: No major incident was reported at the meeting held on 23 September 2014.

2.6 DEVELOPMENT SERVICES

Operations

The Manager: Development Services comments on behalf of the Directorate: Engineering Services on all land-use applications, submitted to Council in terms of the Land-use Planning Ordinance of 1985. Land-use applications include land-use changes such as rezonings, subdivisions, consent uses, increase in bulk and departures and mostly lead to further development of a property.

The approval of a proposed land-use change will be evaluated in terms of the availability of bulk services. Should Council be in a position to supply such services, an application can be supported. If not, then an application for a land-use change will not be supported by the

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Directorate: Engineering Services.

Capital Projects

Most of the Capital Projects are in line with the Service Delivery Budget Implementation Plans (SDBIP) of the Department.

Flagship Projects

PROJECT DESCRIPTION	STATUS	CHALLENGES
Bulk water supply pipe Klapmuts	Construction is in progress and work will be completed as planned.	None
New 5 ML Reservoir – Klapmuts	Construction is in progress and work will be completed as planned.	None

Risks identified and corrective measures

No risks to Council identified

Vandalism/Theft

No incidents were reported.

Challenges/areas where department is not adhering to legislation

This department adheres to all relevant legislation.

Reporting on Events/Programmes/ Projects:

All projects are registered and monitored on a software programme, IMQS.

Human Resources

The primary function of the Department Development Services is to facilitate development from an engineering perspective. This entails input on all land-use applications (rezonings, subdivisions, departures, consent uses), input on building plans, input on engineering services plans, issuing of wayleaves and liaison with relevant role-players to ensure the availability of bulk services.

The Department Development Services consists of 5 personnel members i.e. Manager, Head, Principal Technician, Technician and a

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Support Assistant.

Vacancies

None

Training

Personnel from the Department Development Services stay up to date with latest technologies and best practice by attending regular training workshops, seminars and conferences.

Occupational Health and Safety

Monthly OHS meetings are being held and no incidents were reported for September 2014.

RECOMMENDED

that the monthly report of Engineering Services for September 2014, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

**ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE
MEETING: 2014-11-05: ITEM 6.2.4**

RESOLVED (nem con)

that the monthly report of Engineering Services for September 2014, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

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[Chairperson: Engineering Services: Alderman DC Botha]

6.2.5 PROPOSED IMPROVEMENTS TO THE R44 BETWEEN SOMERSET WEST AND STELLENBOSCH: (DEA&DP REF. NO.: 16/3/1/1/B4//45/1005/13): COMMENTS ON PROPOSED IMPROVEMENTS OF THE R44 BETWEEN SOMERSET WEST AND STELLENBOSCH

File number : 8/1 Engineering Services & Integrated Human Settlements

Compiled by : Manager: Transport, Roads and Stormwater

Report by : Director: Engineering Services

Delegated Authority : Engineering Services & Human Settlements Committee

Strategic intent of item

Preferred investment destination	<input checked="" type="checkbox"/>
Greenest municipality	<input type="checkbox"/>
Safest valley	<input checked="" type="checkbox"/>
Dignified Living	<input checked="" type="checkbox"/>
Good Governance	<input checked="" type="checkbox"/>

1. PURPOSE OF REPORT

To take note of the technical input that was provided by the Municipality on the R44 environmental process.

2. BACKGROUND

The PAWC has embarked on an environmental process to upgrade the R44 between Stellenbosch and Somerset West. The project entails the construction of grade separated circles in order to eliminate the existing unsafe mediam crossings. The proposal is considered very controversial by the public.

The proposed project will have a significant impact on the municipality and its people and therefore necessitated a response from the municipality.

A task group was formed consisting of officials and councillors to prepare a response.

[Chairperson: Engineering Services: Alderman DC Botha]

3. DISCUSSION

The Task Group's response is attached in **APPENDIX 1**.

The Task team consisted of officials from the Engineering, Planning and Finance department.

The current high traffic volume along the R44 is not disputed. Nor is the risk imposed by conflict between local traffic, commuter traffic, pedestrians and cyclists.

What is disputed however is the view that the R44 (and other provincial roads such as the R304) forms the backbone of a regional transport network necessitating the investment on drastic interventions such as are proposed in the report. It is this authority's view that such a decision cannot be made as it will be interpreted as a piecemeal approach to transport planning unless a comprehensive study is undertaken to distinguish between local roads serving the rural community and regional roads aiming at providing a high level of mobility. Such a study has not been undertaken yet and would be well worth the while to consider.

It is also argued that the proposed grade separated roundabouts is an inappropriate intervention that will have a detrimental impact on the scenic quality of the area and cultural landscape ultimately hurting the local economy significantly.

The Task Group also holds the view that a significant investment in public transport and NMT is not only a more sustainable alternative but is actually the official policy of the Provincial Administration, which was seemingly not fully considered.

Stellenbosch Municipality, in its capacity as Planning Authority, partner in managing the road networks, major provincial destination and tourism capital, objects to the proposals on the grounds of the inappropriate scale of the proposals and the potential negative impacts on a wide range of functions.

The view is held that a comprehensive solution regarding transport issues, within the terms of reference of the Provincial and Local IDPs and sector plans, and in terms of exemplary co-operative governance, should be found.

4. FINANCIAL IMPLICATION

Finance notes the item. No Financial Implication.

[Chairperson: Engineering Services: Alderman DC Botha]

5. COMMENTS FROM OTHER DIRECTORATES

5.1 Planning and Economic Development

The Directorate: Planning and Local Economic Development has no comment on the item – and prefer to participate directly in the environmental authorisation process.

5.2 Strategic and Corporate Services (Legal)

Legal has no comment, however due regard must be given to the view expressed by the Task Team.

RECOMMENDED

that Council take note of the view expressed by the Task Team.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

ENGINEERING SERVICES AND HUMAN SETTLEMENTS COMMITTEE MEETING: 2014-11-05: ITEM 6.2.5

RESOLVED (nem con)

that the comments on proposed improvements of the R44 between Somerset West and Stellenbosch expressed by the Task Team, be noted.

(DIRECTOR: ENGINEERING SERVICES TO ACTION)

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7. REPORTS SUBMITTED BY THE MUNICIPAL MANAGER

NONE

**8. NOTICES OF MOTIONS AND NOTICES OF QUESTIONS RECEIVED BY
THE MUNICIPAL MANAGER**

NONE

9. CONSIDERATION OF MOTIONS OF EXIGENCY

NONE

10. MATTERS TO BE CONSIDERED IN COMMITTEE

NONE

Meeting adjourned at 16:30.

CONFIRMED

CHAIRPERSON

(Signature & date)
