



City of Belmont

Attachments

Standing Committee (Environmental) Meeting

**Held
21 March 2016**





Standing Committee (Environmental)

Item 10.1 refers

Attachment 1

**Environment Plan Progress
November 2015-February 2016**

Ongoing Environment Plan Actions

Chapter	Action	Progress
1. WATER MANAGEMENT		
1a)	Hold regular meetings of the Groundwater Use Strategic and Operational Teams to manage the City's groundwater resources.	<ul style="list-style-type: none"> Officers attended a site tour of the Shire of Kalamunda's Managed Aquifer Recharge Project at Hartfield Park on 10 November. Strategic Groundwater Use meetings held 7 November and 18 & 25 February. The revised Operating Strategy for the City's Groundwater Licence was submitted with the licence renewal.
1b)	Conduct an annual water reinventory for scheme water in Council buildings and facilities and Investigate changes in annual water use of >15% for each facility.	A significant scheme water leak (1L/ min) was identified and repaired at Goodwood Boat Ramp/ Toilets in November, associated with a redundant pipe.
1c)	Implement regular stormwater monitoring of nutrient and contaminant levels.	Stormwater sampling undertaken on 10 November & 2 February.
1d)	Continue to participate in the Waterwise Council Program by reporting annually to the Water Corporation on water actions implemented.	Report submitted to Dept Water in November for 2015/16 Waterwise Councils re-endorsement.
2. AIR QUALITY & NOISE		
3. THE BUILT ENVIRONMENT		
3a)	Refer relevant development applications to the Environment Section for comment, and set conditions and/or include footnotes to minimise environmental impacts of development.	<ul style="list-style-type: none"> Comments provided on Belmont Forum redevelopment, regarding use of tree cells in carparks and provision of bike parking facilities. Previous fauna surveys undertaken within the City provided to Terrestrial Ecosystems for the Perth and Peel Green Growth Plan- fauna assessment review. Officer to attend information session on the draft Plan, which is open for public comment until April.
3b)	Ensure use and management of the Belmont foreshore and development interface with the Parks & Recreation Reserve is consistent with the adopted Belmont Foreshore Precinct Plan.	Meeting held 9 December with Town of Bassendean, Dept Parks & Wildlife, Dept Transport and Dept Planning to discuss future use of the river area between Garvey Park and Ashfield. Discussion included causes of erosion, future intent for Ron Courtney Island, potential closure of the channel to motorised vessels and potential location of a jetty and upgrade/ extension of the slalom course.
4. NATURAL ENVIRONMENT		
4a)	Implement management actions for natural areas, as per the Environmental Maintenance Plan and reserve management plans.	<ul style="list-style-type: none"> Inspection of fall arrest gear completed 19 November. Signs at Signal Hill were repainted in December. Fire hazard inspections of natural areas and hazard reduction completed prior to 30 November. Dept Parks & Wildlife permits approved for: <ul style="list-style-type: none"> Extension for temporary Global Synthetic Containers installed adjacent Ascot Racecourse. Pruning and tree removal required for fire access adjacent the foreshore path Clearing permit approval from Dept Environment Regulation is pending for latter (tree removal along foreshore path). Quotes sought for fuel loading assessments for the City's natural areas.

Chapter	Action	Progress
4b)	Continue partnerships with SERCUL, Perth Airport and environmental volunteers, including ongoing attendance at relevant meetings.	<ul style="list-style-type: none"> Mulch installed on foreshore embankment below Balneum Apartments swimming pool on 25 & 26 February. Officers attended Riverpark Forum on 25 November. Fishing line bin Memorandum of Understanding signed, and \$2000 contribution for 2015/16 provided to Dept Parks & Wildlife. A new fishing line bin is proposed for the jetty near Sandringham Hotel. Officer attended the Perth Airport Bird and Animal Hazard Management Advisory Committee meeting on 24 December. Officer attended the re-named Perth Airport Consultative Environmental Reference (ACER) Group meeting held on 9 February.
4c)	Progression of the objectives and key actions of the Urban Forest Strategy.	<ul style="list-style-type: none"> Environmental Officer presented on the City's Urban Forest Strategy at the 202020V Perth Urban Forest Strategy Workshop on 2 December. Josh Byrne and Associates engaged to undertake the internal and external consultation for the drafting of the Canopy Plan.
5. CLIMATE CHANGE		
5a)	Conduct an annual re-inventory of greenhouse gas emissions arising from Council operations.	"Emissions report card" produced by EMRC summarising past five years of emissions data obtained through participation in the Greensense Platform.
5b)	Investigate new energy efficient technology when replacing assets such as park and decorative lighting, internal lighting, HVAC systems and pumps.	The City commissioned an energy audit of the Belmont Sports & Recreation Club, by Norman Disney & Young. The audit identified various recommendations however found that the Club's energy use (per square metre) compares well to other similar facilities.
5c)	Monitor performance of solar PV systems at Ruth Faulkner Public Library and hot water technology at Belmont Oasis Leisure Centre	Monitoring system established in January 2016 for new solar PV system at Harman Park Community Centre. They system is generating about 50- 60 kW (units) daily so far, with highest production between 8am - 2pm.
6. WASTE MANAGEMENT		
7. COMMUNITY AWARENESS		
7a)	Participate in the 'switch your thinking!' programme to promote benefits of energy reduction to the community	<ul style="list-style-type: none"> Participation in the e-bike trial through <i>switch your thinking!</i> about to commence. Article submitted for publication in March Belmont Bulletin promoting Rewards for Residents program and discounts offered on solar PV systems.
7b)	Improve environmental practices of small- medium sized enterprises through participation in the Business Environmental Assessment Project.	<p>December total= 13</p> <ul style="list-style-type: none"> 5 assessments (2 breach, 1 compliant, 1 high risk, 1 minor recommendations only) 6 follow up assessments (1 compliant, 3 high risk, 2 minor recommendations only) 2 premises visits (1 no assessment required, 1 requires assessment) <p>January total= 32</p> <ul style="list-style-type: none"> 19 assessments (15 compliant, 2 high risk, 2 minor recommendations only) 1 follow up assessment (1 high risk) 12 premises visits (1 high risk, 3 no assessment required, 8 requires assessment) <p>February total= 17</p> <ul style="list-style-type: none"> 8 assessments (4 compliant, 4 high risk) 4 follow up assessment (2 breach, 1 compliant, 1 high risk) 5 premises visits (1 compliant, 1 high risk, 1 no assessment required & 2 requires

Chapter	Action	Progress (assessment)
7c)	Organise environmental events to promote values of the natural environment and increase volunteer involvement in natural area activities.	<ul style="list-style-type: none"> Composting workshop held as part of the 'Celebrate Seafood with Josh Catalano' event on 19 November, with 12 attendees. The City hosted the South East Regional Centre for Urban Landcare meeting, held at Ascot Kayak Club on 11 February. EOI submitted for a Living Smart course facilitator, to be run over seven weeks in Term 3 (July – September 2016). Numerous sites (8 in most recent search) have been organised in the City for Clean Up Australia Day on the 6 March. For a full list search by Postcode: 6103/ 6014/ 6105 at http://www.cleaupaustraliaday.org.au/join/
7d)	Provide regular updates in the City's newsletters; Belmont Business Talk and Belmont Bulletin to promote environmental and sustainability programmes, initiatives and events.	Article submitted for publication in March Belmont Bulletin on solar PV systems and discounts provided through the Rewards for Residents Program.
8. CORPORATE PHILOSOPHY		
8a)	Raise Councillor and staff awareness of environmental issues and initiatives.	<ul style="list-style-type: none"> Officer attended Safety & Environment Team meeting on 3 February, which included discussion of the revision to the Herbicide Use & Handling Work Instruction and sampling required in the wash bay sump. Information uploaded on the Councillor portal on The POWER Breakfast - energy revolution in property - Perth – to be held 4 March 2016. Screening of Catalyst episode on solar PV & battery storage organised prior to 21 March SC (Environmental) meeting.
8b)	Conduct an annual internal audit of the Environmental Management System.	<ul style="list-style-type: none"> Officers attended training on contract management and the new ISO 14001: 2015 standard for Environmental Management Systems & 9001: 2015 standard for Quality. Internal audit conducted November- December 2015, with reports completed February. Notification received that the following EMRC funding applications involving work in the City of Belmont were successful: <ul style="list-style-type: none"> Dept Environment: Round 4 Green Army team to work between the City of Swan, City of Belmont and Town of Bassendean from July- December 2016. Steaming to Success: \$10,000 received from the State NRM Office to provide training and pilot steam weeder. Training for local government staff in April.
8c)	Apply for grant funding to facilitate implementation of environmental capital works and other activities.	<ul style="list-style-type: none"> Mid-term report submitted for Riverbank Project P15BM01: Garvey Park Section 3 implementation (\$300,000 funding), requesting additional \$77,000 towards dewatering and environmental monitoring costs. Final Riverbank Reports & acquittals submitted in February for: <ul style="list-style-type: none"> Ascot Racecourse Foreshore Restoration Location D (Riverbank Project P14BM01): \$200,000 funding Garvey Park Section 3 (Riverbank Project P13BM01): \$53,816.76 funding.
8d)	Maintain the ISO 14001 certification of the City of Belmont's Environmental Management System.	<ul style="list-style-type: none"> Officer attended ISO 9001 training on 5 February regarding new requirements of the 2015 standard and a subsequent discussion meeting on transition to the new standard. Officer attended Business Improvement Team meeting on 25 February.

9 New Environment Plan Actions (2015 Revision)

Note: Actions listed include those with a due date of 2015/16 or 2015/16 and beyond.

Action number	Action	Responsible Officer	Progress
1.1	Conduct an overall review of recommendations arising from previous scheme water audits of high consuming sites.	Environmental Officer	A draft 2014/15 Water Report Card and Water Audit Review summary have been received. A template is currently under development to assist City staff in undertaking future water audits.
1.2	Investigate options for securing a long term irrigation water source for Ascot Waters, based on outcomes of the contamination investigation into Lot 5 (Ascot Waters Compensation Basin).	Manager- Parks & Environment	The only viable option for a new source of water is the construction of an irrigation lake on 'The Trust Land'. The City is keen to progress the Strategic Plan for the Trust land for which a number of elements will require Supreme Court sanction. A process is being followed but has some way to go, including public consultation, before consideration by the Supreme Court. Urbis Consulting are currently preparing expert advice for the City to assist with this endeavour.
1.3	Obtain 'as constructed' digital designs for stormwater drainage upon completion of the Tonkin Highway upgrade, and incorporate into the City's Intramaps system.	Manager- Design & Assets	No action possible 2015/16. Gateway WA as cons will be available late 2017 upon completion of all works and will subsequently be transferred to Intramaps.
1.4	Review the Groundwater Use Strategy 2012.	Environmental Officer	Review discussed at the Groundwater Use Management- Strategic Team meeting held 7 November. Rather than develop a separate document, it was decided that revised actions from the Groundwater Use Strategy would form part of the new groundwater licence Operating Strategy and Water Efficiency Action Plan. The latter is a requirement of 2016 Waterwise Council Program accreditation and will be a section within the new Environment and Sustainability Strategy 2016-2021. (Refer Item 10.3).
1.5	Using the 5 year review of Belmont stormwater quality monitoring results, revise objectives of the sample program and revise sampling at a catchment level.	Environmental Officer	To be completed following final sampling event for 2015/16 (in March 2016).
1.6	Review progress against Corporate and Community scheme water consumption goals set for 2014-15.	Environmental Officer	Outcomes will be summarised in the Water Efficiency Action Plan/ Environment and Sustainability Strategy 2016-2021. (Refer Item 10.3).
3.1	Undertake a review of the City of Belmont Acid Sulfate Soils (ASS) Checklist and process for the identification and management of ASS for City projects.	Environmental Officer	Completed February 2016, with existing "Identification, Investigation & Management of Acid Sulfate Soils" Work Instruction and Check Sheet reviewed and new Process Map developed.
3.2	Participate in the Swan River Trust's recently-announced Light Industry project for 2015-16 and 2016-17.	Environmental Officer – Light Industry	Joint Dept Environment Regulation – City of Belmont visits of businesses undertaken in Kewdale one day per week November- January, then one day per month from February.
4.1	Implement foreshore stabilisation works at Garvey Park, Ascot Racecourse foreshore and other priority sites for erosion control.	Coordinator- Environment	<ul style="list-style-type: none"> Stage 1 - <i>The Esplanade Foreshore Upgrade</i>: \$40,000 contribution received from GHD towards implementation of remediation works. One quote received for implementation, awaiting 2nd quote. Quote obtained for engineering supervision of works. Permit application

Action number	Action	Responsible Officer	Progress
			<ul style="list-style-type: none"> submitted to Dept Parks & Wildlife, approval pending. Plant orders submitted. <u>Garvey Park Section 3:</u> Works commenced on 23 November with anticipated completion April. Works completed include brush mattrassing (rock toe, gravel channels & lower bank revegetation), rock nodes, installation of new viewing deck (footings, steel, balustrade & FRP mini mesh) and new path west of viewing deck. Installation of new beach, beach gabion walls, 2 x beach access ramps and path east of viewing deck are still to be completed. <u>Garvey Park Section 2:</u> Presentation by Ascot Kayak Club slalom group held 22 February regarding potential upgrade of the slalom course at Garvey Park. <u>Hill 60:</u> No formal response has been received regarding future intentions for Lot 809. <u>Faulteroy:</u> No further progress by Dept Parks & Wildlife, regarding WAPC's request for a letter outlining the issues raised and options suggested regarding zoning of the Faulteroy Ave foreshore and SPPN.2.10. <u>Ascot Foreshore Location D:</u> Guardrail installed adjacent racecourse foreshore path in November, completing the project for 2015/16.
4.2	Implement the Signal Hill bushland restoration plan.	Environmental Supervisor	Completed for 2015-16, with 900 tubestock planted on 31 July. Seed collection undertaken at Signal Hill bushland by Tranen Revegetation Systems on 7 December. Seed transferred to Men of the Trees for use in 2016 winter plant order.
5.1	Utilise the "energy fund" to install solar PV systems on Council buildings, as per recommendations of the business case developed.	Coordinator Environment	10 kW (40 panel) Solar PV system installed by Solar Gain at Harman Park Community Centre on 16 & 17 December. Monitoring system and online web information available from mid-January.
5.2	Participate in the EMRC's 'Understanding and Managing Flood Risk in Perth's Eastern Region: Stage 1' project.	Coordinator Environment	EMRC presentation scheduled for 31 March on the completed catchment hydrology assessment. A webpage has been created to provide information about the project, project drivers and latest updates. Refer: http://www.emrc.org.au/understanding-and-managing-flood-risk.html
7.1	Consider participation in the 'Switched on Business' programme or equivalent, to encourage water and energy efficiency of local businesses.	Coordinator Environment	<i>Switch your thinking!</i> 's Business Plan includes provisions for creating a sustainability assessment tool for small to medium scale Council civic projects, which could be made available to businesses to consider sustainability in project planning and implementation. The existing 'Switched on School' initiative could potentially be adapted for businesses. Refer Item 10.4.
7.2	Implement an education and engagement programme for residents of 'The Springs' regarding environmental and sustainability issues.	Coordinator Environment, TravelSmart Officer	EOI submitted for a Living Smart course facilitator, to be run over seven weeks in Term 3 (July – September 2016). Knowledge of sustainability issues for those living in apartments has been included as a requirement in the EOI.

Action number	Action	Responsible Officer	Progress
8.1	Incorporate ecologically sensitive design (ESD) features into the new Faulkner Park multipurpose community facility.	Manager Building Services	<p>The concept plans for the Community Centre have considered ESD in that:</p> <ul style="list-style-type: none"> The orientation and layout of the building will allow for North and South natural light, natural ventilation from prevailing breezes and installation of solar panels. The layout allows for the retention of significant trees and as such benefit from their natural cooling effect. End of trip facilities have been allowed for in the basement carpark. <p>Detailed considerations on ESD will be part of the next stage of the project, following the appointment of an Architect to develop the design and document for construction.</p> <p>At the OCM 15 December Council resolved to appoint a Green Star Accredited Professional to the project and that 5 Star Green Star registration utilising the Design and As Built rating tool would be sought.</p> <p>In progress.</p>
8.2	Conduct a review of existing council policies and identify potential incorporation of environmental considerations.	Coordinator Environment	
8.3	Develop a new Environment Plan for 2016-2021.	Coordinator Environment	Refer Items 10.2 & 10.3.
8.4	Review the requirements of the new version ISO14001:2015 standard and conduct a gap analysis against the City's current management systems for transition purposes.	Coordinator Environment	<ul style="list-style-type: none"> Officers attended training on the new ISO 14001: 20015 standard on 27 November. Responses to 2015 Internal Audit provided information relevant to the gap analysis, which is currently underway.
8.5	Investigate alternative energy and water reporting platforms for potential transition following discontinuation of the WALGA Emissions Reporting Platform.	Coordinator Environment	Meeting held with EMRC on 9 December to discuss transition to Planet Footprint energy & water monitoring platform. Review completed of gas, electricity and scheme water accounts. EMRC to organise City of Belmont staff training session for February.
8.6	Review environmental induction process for new employees and Contractors.	Coordinator Environment	No further update.

Outstanding Environment Plan Actions (2014 Revision)

Note: An update on actions due on 30 June 2015, which were uncompleted as of the June meeting agenda deadline are summarised below.

Action number	Action	Responsible Officer	Progress
1.6	Conduct a performance review of water actions implemented between 2010 and 2015 and report to ICLEI.	Environmental Officer	Refer notes against Action 1.1 in table above.



Standing Committee (Environmental)

Item 10.1 refers

Attachment 2

**Progress of TravelSmart Plan
Implementation
December 2015-February 2016**



A10 TRAVELSMART REPORT – Enviro Committee December 2015 – February 2016

Action No.	Action	Responsible Officer	Deadline	Progress
1.	Attendance at a stall during the Autumn River Festival and Avon Descent community event days to provide information and education to the public.	TS, EV	Annually April/Aug	Planned for an Electric Bike Conversion demonstration to be undertaken at Autumn River Festival.
2.	Hold a bike to work breakfast during Bike Week to encourage commuter cycling.	TS, ENV, SMPHU	Annually March	Received \$1000 grant for the Belmont Bike to Work Breakfast. Event will be held on Friday 18 th of March 2016 6:30 – 8:30am Goodwood Parade Boat Ramp Rivervale.
3.	Promotion of Bike Week and Walk Over October.	TS, LAC, MARK	Annually March/ Oct	Have arranged National Ride to School Day healthy breakfast grants for four schools for 4 March 2016. St Augustine, Kewdale, Redcliffe and Cloverdale Primary.
4.	Assist with Walk Over October activities as required and provide TravelsSmart information.	TS, LAC	Annually Oct	No new information at this time.
5.	Develop community bicycle workshops to develop cycling skills of women, Culturally and Linguistically Diverse (CALD), and special needs groups.	TS, CL, SMPHU	March 2013	No new information at this time.
6.	Conduct a Bicycle User Group (BUG) meeting bi-monthly.	TS	1 st Wed of every second month	Formal BUG meetings have been suspended for the time being due to lack of interest. Any future meetings will be conducted ad hoc where relevant and necessary.
7.	Update the TravelsSmart information on the City of Belmont website and improve its accessibility.	TS, IT	April 2012	No new information at this time.
8.	Promotion of TravelsSmart options in advertising for major community events.	TS, MARK, IT, EV	As required	TravelsSmart travel to Autumn River Festival is suggested in relevant upcoming Belmont Bulletin.
9.	Conduct Transperth 'Magical Mystery' public transport tours for seniors, CALD and special needs groups.	TS, PTA, CS	Nov 2012	No new information at this time.
10.	Insert TravelsSmart information in new resident starter packs.	TS, MARK	Ongoing	Ongoing. No new information at this time.
11.	Investigate the potential for a 'Going Places' travel incentive initiative or similar. See http://www.goingplaces.darebin.vic.gov.au/ .	TS	January 2013	Will monitor the 'Free Wheeler' App trial in Fremantle. Trial due to formally commence in February 2016.
12.	Implement the TravelsSmart to Schools program with participating primary schools.	TS, DOT	Ongoing	No new information at this time.
13.	Promote Walk Over October and Bike Week to schools.	TS, DOT	Annually March/Oct	No new information at this time.
14.	Offer breakfast grants for Cycle and Walk to School Days.	TS	Annually March/Oct	See comment for action 3.
15.	Develop the City of Belmont TravelsSmart Workplace program for external businesses.	TS, PROP	March 2012	No new information at this time.
16.	Implement the Dept. Of Transport and Belmont TravelsSmart Workplace programs.	TS, DOT	Commence program in	Ongoing as required.

Action No.	Action	Responsible Officer	Deadline	Progress
17.	Businesses proposing development of end of trip facilities at DCG meetings to be invited to participate in the TravelSmart Workplace program.	TS, PLAN	April 2012	Attend DCG wherever possible and provide relevant information where required.
18.	Work with Belmont Forum to develop a TravelSmart access plan.	TS, DOT, PROP	November 2012	Some discussions undertaken with the Belmont Forum in December of 2015.
19.	Promote the Belmont Business Environmental Awards to local businesses.	TS, ENV	Annually	No new information at this time.
20.	Coordinate and implement the Active Travel - Be Rewarded Program.	TS	Annually Sept - Dec	No new information at this time..
21.	Facilitate the Department of Transport's online Corporate Walking Challenge.	TS	Annually Sept	Believe this challenge no longer exists.
22.	Facilitate the Department of Transport's online Bike to Work Challenge.	TS	Annually Sept	Believe this challenge no longer exists.
23.	Maintain, update and promote car pool register on Belnet and in the staff lunchroom.	TS, IT	Quarterly	Updated the carpool register sheet in the lunchroom.
24.	Investigate a TravelSmart subsidy for staff.	TS,FIN, HR	July 2012	No new information at this time.
25.	Annual staff travel survey to determine changes in travel patterns.	TS,ENV	Annually Sept	No new information at this time.
26.	Update and maintain TravelSmart page on Belnet.	TS, IT	Feb/Aug Annually	Information updated February.
27.	Submit TravelSmart articles for the Team Brief.	TS	Ongoing	No new information at this time.
28.	Conduct TravelSmart commute planning sessions with all new staff.	TS, HR	Ongoing	Ongoing where required.
29.	Participate in the coordination of Staff Safety and Wellbeing Month.	TS, OH&S, LAC	Annually Sept/Oct	No new information at this time.
30.	Investigate the provision of 'TravelSmart time' for staff (15 minutes less work time each day if walking, cycling, car pooling or catching public transport to work).	TS, HR	January 2013	Relates to action 24. No new information at this time.
31.	Maintenance of TravelSmart related facilities (fleet bikes, lockers, bike shelter, and staff SmartRiders).	TS, BUILD	Ongoing	Ongoing where required.
32.	Promotion of TravelSmart facilities to staff.	TS	Quarterly	Promoted as part of Active Travel Be Rewarded program.
34.	Adoption of the revised City of Belmont Bike Plan.	TS, DES	February 2012	Submitted a PBN (Perth Bike Network) Grant application for 2016/17 and 2017/18 for 50:50 funding to commence the update of the Belmont Local Bike Plan.
35.	Assist City East Alliance, Eastern Metropolitan Regional Council and Gateway WA with relevant projects.	TS, DES	Ongoing	Represented the City at the EMRC with Regional TravelSmart Working Group and EMRC consultation session on update of the Regional Integrated Transport Strategy.
36.	Lobby the Public Transport Authority for more bus services to the Mixed Business Area and Kewdale	TS, PROP	April 2013	No new information at this time. To be incorporated with action 38.

Action No.	Action	Responsible Officer	Deadline	Progress
37.	Update and distribute the City of Belmont TravelSmart Industrial Area Guide.	TS, DOT, MARK	April 2012 and 2014	Ongoing where required.
38.	Undertake an investigation into the feasibility of a co-funded bus service to improve public transport access to the City's business and industrial areas	TS, DOT, ENV, PLAN, PROP, PTA	July 2013	Reported on the performance of the BUSLink service at SMG meeting on 11 February 2016. It was agreed that the service will continue to run until end of June 2016. After that, the future of the service depends on whether funding support/sponsorship can be attained from the Belmont Forum.

Responsible Officers:

TS	TravelSmart Officer
LAC	Co-ordinator Leisure, Art & Culture
HR	Human Resources
ENV	Co-ordinator Environment
PROP	Manager Property and Economic Development
IT	Information Technology Officer
FIN	Manager Finance
FLEET	Co-ordinator Fleet
BUILD	Co-ordinator Building Operations
OH&S	Co-ordinator Occupational Health and Safety
SMPHU	South Metro Public Health Unit
DES	Engineering Design Surveyor
MARK	Media and Communications Officer
EV	Events Officer
PLAN	Manager Planning Services
CS	Co-ordinator Community Services
DOT	Department of Transport



Standing Committee (Environmental)

Item 12 refers

Attachment 3

**Memo - Provision of Additional Information
16 November 2015
Standing Committee (Environment)
Meeting**



Memorandum

To All Councillors

CC: Senior Management Group
Manager Governance, Principal Governance and Compliance Advisor
Senior Governance Officer, Governance Officer
Warren Stephens
Crawford Connell
James Pol
Kevin Davidson

From Ric Lutey, Director- Technical Services

Subject Provision of additional information- 16 November 2015 Standing Committee (Environmental) meeting

Date Friday, 20 November 2015

Dear Councillors

Please find attached additional information as requested at the 16 November 2015 - Standing Committee (Environmental) meeting.

Regards



RIC LUTEY
DIRECTOR TECHNICAL SERVICES



Item 10.1: Progress of Environment Plan and Travel Smart Plan Implementation-September 2015-October 2015

Action	Response
<p>Provide Councillors with a list of what has been spent on stabilisation at Hill 60 and break down the costs between the City, the Department of Planning and the Swan River Trust</p>	<p>A breakdown of funding contributions at Lot 809 (Hill 60) is shown in Table 1 below.</p> <p>The total contributions were:</p> <ul style="list-style-type: none"> • City of Belmont = \$75,461 • Swan River Trust = \$41,462 • Department of Planning = \$5,161 • TOTAL= \$122,084 <p>The City also funded general maintenance (weed control, rubbish removal) on the slope from May 2012-October 2015, however this has now ceased and Department of Planning has been advised. The total City of Belmont expenditure on maintenance was \$27,299.</p>
<p>Provide Councillors with information on the ratio of recycling bins to general waste bins currently at the Civic Centre</p>	<p>The ratio for bins at the Civic Centre is:</p> <p>1 : 9 : 17</p> <ul style="list-style-type: none"> • 1 x 3 cubic metre, general waste blue skip bin • 9 x 240 litre general waste bins • 17 x 240 litre yellow top recycling bins <p>There are also 5 cartridge toner recycling bins.</p>
<p>Provide Councillors with information on the potential use of a heat-reducing film for the solar PV system to be installed at Harman Park Community Centre, to improve panel efficiency at high temperatures</p>	<p>The heat-reducing film suggested is currently at prototype stage and is not available commercially.</p> <p>A journal article was recently published on a study undertaken on use of a transparent overlay to improve solar panel efficiency at higher temperatures.</p> <p>Testing undertaken on solar panels on Stanford University's rooftop found that a transparent overlay of patterned silica can cool the panel temperature by 6 degrees Celsius, increasing efficiency by 1%.</p> <p>Should this technology become available commercially in future, it will be considered for use for the City's solar PV systems.</p> <p>For further details please refer to the journal article from the <i>Proceedings of the National Academy of Sciences of the United States of America</i>:</p> <p style="padding-left: 40px;">Linxiao Zhu, Aaswath P. Raman, and Shanhui Fan</p> <p style="padding-left: 40px;">Radiative cooling of solar absorbers using a visibly transparent photonic crystal thermal blackbody</p> <p style="padding-left: 40px;">PNAS 2015 112: 12282-12287.</p> <p>The panels to be installed at Harman Park Community Centre are ReneSola 250W polycrystalline panels.</p> <p>Renesola panels have a low temperature coefficient, meaning that in high-temperature conditions their loss of performance is less than other brands.</p>

Action	Response
Investigate (in consultation with Cleanaway/EMRC) producing stickers for recycling bins stating – ‘No Plastic Bags’	Cleanaway advise that they will be constructing a new Materials Recovery Facility in the next approximately 12 months and this will incorporate new bag splitting technology, enabling plastic bags to be removed from the recyclables. It is not considered desirable to install stickers which will provide information that will be out-of-date within a relatively short period of time. In the meantime, Cleanaway will continue present education initiatives.
Investigate providing a light in the Civic Centre bike shed	<p>In 2011 the issue of lighting the bike cage was investigated by Building Services. It was found that power could not be supplied directly into the bike shed unless a line was cut across the bitumen from the nearest connection.</p> <p>Given the limited number of visitors to the Civic Centre after dark, the cost of providing this connection was not justified. Subsequently, a flood light and security camera were positioned in the car park pointing directly at the bike shed, which provides ample light and security to this immediate area.</p> <p>Councillors attending evening meetings are welcome to bring their bicycle inside and store it under the stairs to the Councillors lounge area.</p>

Item 10.3: Update on Review of Environmental Management System and Associated Documents

Action	Response
Provide Councillors with the dates that climate change modelling patterns extend to	The City’s Climate Change Adaptation Action Plan was based on climate predictions for 2030 and 2070.
Ensure that dual plumbing is considered in design of the new Faulkner Civic Precinct Community Building	<p>The Faulkner Civic Precinct Community Building will be designed to achieve 5 Star “Green Star – Design & As Built” certification, a level representing Australian Excellence in sustainability performance.</p> <p>To achieve this rating, a certain number of points must be obtained relating to various aspects, of which “water” is one category representing 11% of the total available points.</p> <p>The potential for rainwater tanks and greywater systems (and dual plumbing) will be considered along with other ecologically sensitive design (ESD) features, once an Architect is appointed to undertake design works.</p> <p>The ultimate selection of ESD features will be dependent on:</p> <ul style="list-style-type: none"> • feasibility • costs; both capital and ongoing maintenance/asset replacement (lifecycle) • return on investment; both environmental (i.e. water savings) and financial (cost savings due to reduced water consumption).

Table 1. Funding contribution towards stabilisation at Hill 60 (Lot 809)

Financial Year	Activity	Funding contribution (GST exclusive)		
		City of Belmont	Swan River Trust	Department of Planning
2011/12	Installation of natural logs, coir logs, jute matting and planting by the City's Environment Crew.	\$3,985		
	Engagement of a geotechnical engineer (Douglas Partners) to conduct geotechnical sampling and provide advice on the causes of the slip and recommendations.	\$9,728		
	Engagement of consultant (Syrinx Env) to conduct site investigation and provide recommendations for temporary stabilisation of the land slip area.	\$6,210		
2012/13	Engagement of a contractor (Syrinx Env) to undertake temporary stabilisation works.		\$41,489	
	Engagement of a consultant (Syrinx Env) to develop concept and detailed designs, technical specifications and pre-tender cost estimate for long term stabilisation of Lot 809.	\$30,789		
	Revegetation of palisades within land slip area by the City's Environment Crew.	\$1,649		
2013/14	Engagement of a consultant (Galt Geotechnics) to undertake a global slope stability assessment of Lot 809 and review long term stabilisation plans.	\$23,100		
2014/15	Engagement of a consultant (Galt Geotechnics) to undertake design of the remediation works involving grout injection.			\$5,161
TOTAL TOWARDS STABILISATION		\$75,461	\$41,489	\$5,161
2011/12-2015/16	Maintenance undertaken monthly by the City's natural area maintenance contractors from May 2012-October 2015.	\$27,299		
TOTAL TOWARDS GENERAL MAINTENANCE		\$27,299	0	0

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