

VanDusen Visitors Centre

Living Building Challenge Certification

PARK BOARD COMMITTEE MEETING
July 11, 2016



Presented by Facilities Planning + Development



VanDusen Design Goals



EDUCATION

- Teach/educate botanical and ecological excellence
- Offer formal/informal and active/passive learning experiences
- Offer continuing education that appeals to all ages/experiences

DEMONSTRATION

- Implement best practices around conservation and sustainability
- Move toward urban self-sufficiency for food





VanDusen Design Goals



PERFORMANCE

- Reach a natural balance whereby VanDusen is self-sufficient
- Explore the relationships between buildings and ecological systems

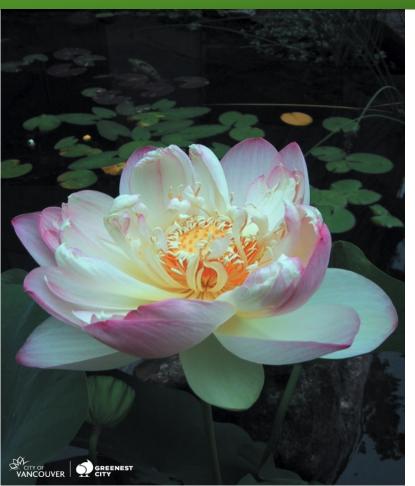
IDENTITY

- Make VanDusen one of the foremost visitor sites in Vancouver
- Create an image/sense of VanDusen as being part of public realm
- Increase number of visitors annually
- Visits increased 50% exceeded expectations



Living Building Challenge





FLOWER AS METAPHOR

- Rooted in place and yet...
- harvests all its own energy + water
- is adapted to climate + site
- operates pollution free
- promotes health + well-being
- comprised of integrated systems
- is beautiful

Site Water Indoor Quality Materials
Energy
Beauty + Inspiration

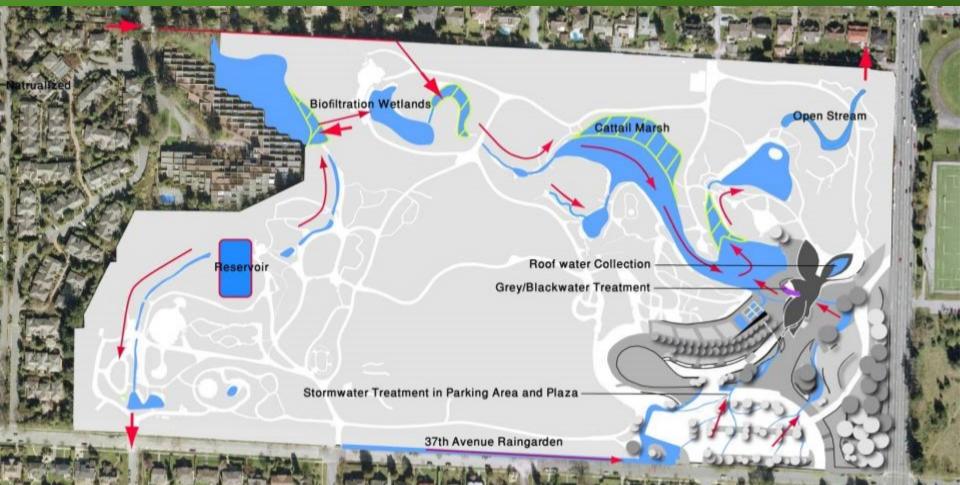
SITE - Natural Systems Integrated with the Building Systems





WATER – Interconnected Water Systems within the Site





INDOOR QUALITY - Air, Light, Comfort, Healthy Building





MATERIALS – no "red list" materials, 96%waste recycled



136.2

11,022

31,738

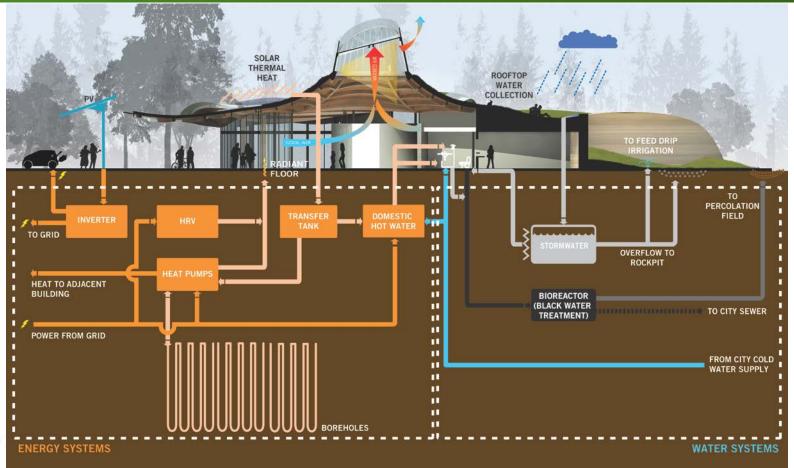


Raynaud's phenomenon

MORKING TO MAKE & DIPPERSHEE										
Table 1	Occupational Disease Data by Type of Disease, by Five-year Period; 1987-2011									
Type of disease	Number	Number	Number	Number	Number	Number	Days	Cost of	Days	Thousands
	of claims	of claims	of claims	of claims	of claims	of claims	lost	claims	lost per	of \$ per
	1987	1992-	1997-	2002-	2007-	1987-2011	1987-2011	1987-2011	claim	claim
	1991	1996	2001	2006	2011			(\$000)	1987-2011	1987-2011
Reaction to HIV treatment	0	33	724	300	283	1,339	21,350	2,953	16	2.2
Needlestick injury - see note	74	108	112	98	93	486	6,576	543	14	1.1
Allergic reaction	55	230	95	66	66	512	7,131	2,981	14	5.8
Cancer: asbestos	72	102	143	182	225	724	169,341	123,918	234	178.1
Cancer: other	20	21	33	37	47	158	25,032	37,991	158	240.5
Chemical burns	2,714	2,379	1,921	1,605	1,380	9,998	83,491	13,156	8	1.8
Conjunctivitis	69	50	175	98	79	472	3,220	328	7	0.7
Dermatitis	1,158	1,060	1,040	711	475	4,444	115,046	21,198	26	4.8
Hearing loss	4,186	3,433	2,760	1,982	1,924	14,285	24,533	81,598	2	5.7
Infected blister	41	27	59	32	30	189	2,881	258	15	1.4
Hepatitis	19	13	12	12	8	64	15,022	1,792	235	75.1
Norwalk	0	1	5	709	1,642	2,357	7,974	880	3	0.4
Sars - including quarantine	0	0	0	2	0	2	1,870	700	935	349.9
Other infectious disease	347	353	316	214	168	1,397	32,470	7,240	23	5.2
Bursitis: repetitive motion	1,667	2,527	3,082	2,:93	1,489	10,957	945,744	135,524	86	12.5
Tendinitis: repetitive motion	5,845	7,679	7,772	5,606	3,218	30,121	1,919,562	259,618	64	8.6
Carpal tunnel syndrome	1,516	2,565	2,344	1,755	900	9,081	1,032,293	149,784	114	16.5
Asbestosis	66	107	107	:15	73	468	16,313	79,732	35	170.4
Silicosis	45	40	16	4	5	110	5,210	29,623	47	269.5
Other pneumoconiosis	2	3.	3	3	1	12	580	3,806	48	317.2
Scleroderma	0	0	7	2	2	11	2,036	5,587	185	598.9
Poisoning	696	500	686	522	613	3,018	37,841	17,952	1.3	5.9
Arc flash and related	1,806	1,301	1,116	613	414	5,250	14,513	3,135	3	0.6
Other radiation effect	35	28	9	1	6	79	527	1,130	7	14.3
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ENERGY – Goal is Net Zero Energy and Self Sustainment

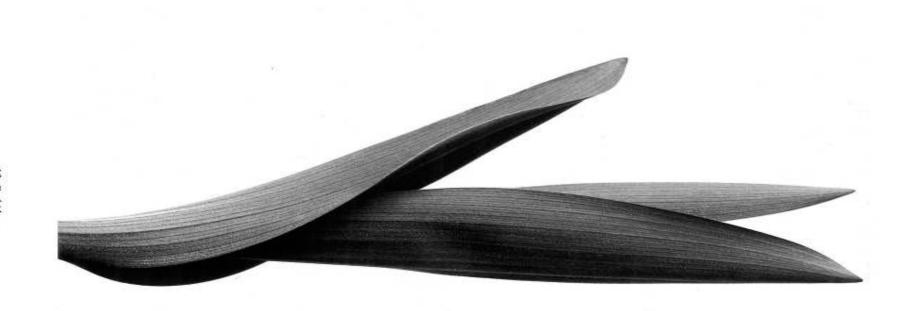




BEAUTY + INSPIRATION – Inspired by Orchid







VISION + LEADERSHIP + COMMITMENT





