Parts for 317 Greenhouse Pr	roiect											24-Sep-19
Daniel Bujold	-,											
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Part	Description	Supplier	Part #	USS cost	CAD\$ cost	Ouantity	Shipping	Тах	USS subt	CAD\$ subt	Website	Comments
								 				
Soil Moisture Sensor	Resistive moisture sensor	DigiKey	SEN-13322		\$8.53	1	\$8.00	\$1.10		\$17.63	https://www.digikey.ca	1.
								<u> </u>				
Water Solenoid Valve	To dispense water	Sayal Electronics	VMA422		\$16.95	1		\$2.20		\$19.15	https://secure.saval.com	Comes with NPT barbed fittings
								† •				Just an approx. Need to discuss options
5V relay	Turn solenoid on/off	Sayal Electronics	50-530-1		\$3.50	1		\$0.45		\$3.95		with Kristian - possible transistor instead?
M/F wire connectors	Connect sensor/effector to PCB	Sayal Electronics	ACRC-2011A-2		\$1.50	2		\$0.39		\$3.39	https://secure.sayal.com	
GPIO Stacking header	To connect PCB to RPI	Sayal Electronics	?		\$4.75	1		\$0.61		\$5.36		Not online, but they have in store
												Canada.ca per kilometer allowance for
Sayal Electronics pickup	\$0.58 x kilometers					20				\$11.60	https://www.canada.ca	employees/employers
1 litre bottle pump	To simulate garden hose pressure	Princess Auto	8629826		\$14.99	1		\$1.94		\$16.93	https://www.princessau	
Cone spray nozzle	To spray water evenly	Princess Auto	8116626		\$5.97	1		\$0.77	'	\$6.74	https://www.princessau	
1/4" barbed NPT fitting	To connect sprayer to clear tube	Princess Auto	?		\$3.50	1		\$0.45		\$3.95		Need to find exact size of sprayer threads
Princess Auto pickup	\$0.58 x kilometers					0				\$0.00		Included in Sayal pickup (its on the way)
								ļ.,	<u> </u>			
PCB	Source a Canadian company	PCBShopper (eQuote)		\$9		1	\$15	\$1.17	\$25.17			Use prototype lab to save expense?
								1				
Clear acrylic 24" x 12"	For project enclosure		3/16"		\$8.20	.		\$1.06		\$9.26		Phone quote
Acrylic cutting		Prototype Lab				1				\$0		Or cut it myself on table saw
												Has Blos Bill to set our season
Deark and Di 2 Di	Company the many and the CD and	A	DOZDCCODKZ		¢00.00	_	ćo	, ¢0		¢00.00	 	Use Blue Pill to cut expense?
Raspberry Pi 3 B+	Comes with power supply, SD card	Amazon.ca	В07ВСС8РК7		\$98.99	1	\$0	\$0	1	\$98.99	https://www.amazon.ca	(\$12 on Amazon)
Owned Components												
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Acrylic glue	To assemble acrylic panels					1		1		\$0		50 mL bottle
Solder	To solder wires/PCB					1				\$0		Roll
Various resistors	Resistor selection to follow					_				\$0		various resistors from different parts kits
Assorted screws, nuts, bolts										\$0		various hardware collected in my toolbox
Electrical wire										\$0		approx 6' needed
Spade terminal connectors	To connect wires to solenoid valve					2				\$0		
Heatshrink tube 2:1	To cover wires/connections									, \$0		various sizes collected in my toolbox
Clear PVC tube	To plumb water system									\$0		approx 3' needed
Zip ties	Securing wires									\$0		6" zip ties
<u>Totals</u>												
\$US Total	\$25.17 (\$33.37 CAD)											
\$CAD Total	\$196.95											
								1				
\$CAD Grand Total	\$230.32											
								1				
Potential Savings								1				
		prototype lab makes PCB						_				
CAD Consul Total (11)	-\$87	use Blue Pill instead										
\$CAD Grand Total (with	A.a											
savings)	\$109.95							-				