Team Number:	102						
Project Name:	House-hold Irrigaton						
Team Member Names:	David Cannon, Austin Gonzalez, Terry Williams, Jacob Dirks						
Version:	1						
All Major Components	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)	Units
	Curiosity Nano	PIC18F57Q43	1.7-5.1V	1	500	500	mA
	Galvanized Nail Reisistor system	N/A	1.8-5.1V	1	20	20	mA
	DC Motor	711	4.5-9V	1	40	40	mA
			Supply		Absolute		
(+)9V Rail	Component Name	Part Number	Voltage Range	#	Maximum Current (mA)	Total Current (mA)	Units
(+)9V Rail	Component Name DC Motor		Voltage	# 1	Maximum	(mA)	Units
(+)9V Rail	· ·		Voltage Range		Maximum Current (mA)	(mA)	
(+)9V Rail	· ·		Voltage Range		Maximum Current (mA)	(mA)	mA
(+)9V Rail	· ·		Voltage Range		Maximum Current (mA) 40 Subtotal	(mA) 40 40 25%	mA
	· ·		Voltage Range		Maximum Current (mA) 40 Subtotal Safety Margin	(mA) 40 40 25%	mA mA
	DC Motor	711	Voltage Range 4.5-9V	1	Maximum Current (mA) 40 Subtotal Safety Margin Total Current 3000 - Amount Taken By	(mA) 40 40 25% 50	mA mA mA
	DC Motor	711	Voltage Range 4.5-9V	1	Maximum Current (mA) 40 Subtotal Safety Margin Total Current 3000 - Amount Taken By Regulators Total	(mA) 40 40 25% 50	mA mA mA
(+)9V Rail	DC Motor	711	Voltage Range 4.5-9V	1	Maximum Current (mA) 40 Subtotal Safety Margin Total Current 3000 - Amount Taken By Regulators Total	(mA) 40 40 25% 50	mA mA mA

(+)5V Rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)	Units
	Galvanized Nail Reisistor system	N/A	1.7-5.1V	1	20	20	mA
	Curiosity Nano	PIC18F57Q43	1.7-5.1V	1	500	500	mA
					Subtotal	520	mA
					Safety Margin	25%	
					Total Current	650	
SOURCE	+5V Regulator	LM7805	5-35V	1	1500	1500	mA
					Total Remaining	850	mA
External Power Source	Component Name	Part Number	Supply Voltage Range	Output Voltage	Absolute Maximum Current (mA)	Total Current (mA)	Units
Power Source Selection 1	Plug-in Wall Supply	B09ZTKTLGW	110V AC	+9V	3000	3000	mA
Power Rails Connected to External Source 1	+5V Regulator	LM7805	5-35V	1	1500	1500	mA
	J				Total Remaining	1500	mA