

Team Number:	102					
Project Name:	House-hold Irrigaton					
Team Member Names:	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)
	Curiosity Nano	PIC18F57Q43	1.7-5.1V	1	500	500
	DC Motor (Water Pump)	RS-360SH	3-12V	1	1500	1500
	DC Motor (Fertilizer Distrobution)	2941	4-6V	1	550	550
	DC Motor (Fertilizer Stiring)	2941	4-6V	1	550	550
(+)9V Rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
	DC Motor (Water Pump)	RS-360SH	3-12V	1	1500	1500
					Subtotal	1500
					Safety Margin	0.25
					Total Current	1875
SOURCE	Plug-In Wall Supply	B09ZTKTLGW	110V AC	+9V	3000	3000
					Total Remaining	1125
(+)5V Rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)
	DC Motor (Fertilizer Distrobution)	2941	4-6V	1	550	550
	DC Motor (Fertilizer Stiring)	2941	4-6V	1	550	550
	Curiosity Nano	PIC18F57Q43	1.7-5.1V	1	500	500
					Subtotal	1600
					Safety Margin	0.25
					Total Current	2000
SOURCE	+5V Regulator	LM7805	5-35V	1	1500	1500
					Total Remaining	-500
External Power Source 1	Component Name	Part Number	Supply Voltage Range	Output Voltage	Absolute Maximum Current (mA)	Total Current (mA)
Power Source Selection 1	Plug-in Wall Supply	B09ZTKTLGW	110V AC	+9V	3000	3000
Power Rails Connected to External Source 1						
	+5V Regulator	LM7805	5-35V	1	1500	1500
					Total left	1500