





































Applying Lean: Implement a Pull System for Automation								
Tube Count								
Time (hours)	Centrifuge/ Analyze	Centrifuge	Analyze Only	Receive Only	Total Tubes	Hour	Hourly Tubes	
0.1	0	0	24	0	24			
0.2	24		24	0	48			Theoretical Analysis
0.3	24		24	0	96			Theoretical Analysis
0.4	24		48	0	120			Tubes per Hour
0.6	24		48	48	168			
0.7	24		72	48	192			
0.7	48	_	72	48	216			
0.9	48	96	72	48	264	Hour 1	264	
1.1	48		72	96	312			
1.2	48		96	96	336			
1.3	72		96	96	360			
1.4	72		96	96	408			
1.6	72		96	144	456			
1.7	72		120	144	480			Will the Pull System
1.8	96	144	120	144	504			
1.9	96	192	120	144	552	Hour 2	288	model meet Takt Time
2.1	96		120	192	600			model meet Takt Time
2.2	96		144	192	624			
2.3	120		144	192	648			
2.4	120		144	192	696			
2.5	120	=	168	192	720	L		
2.7	120		168	240	768	L		
2.8	120	= : •	192	240	792	I		*Example of automation loading capacity
2.9	144		192	240	816			
3.0	144	288	192	240	864	Hour 3	312	



























