

Figure 1

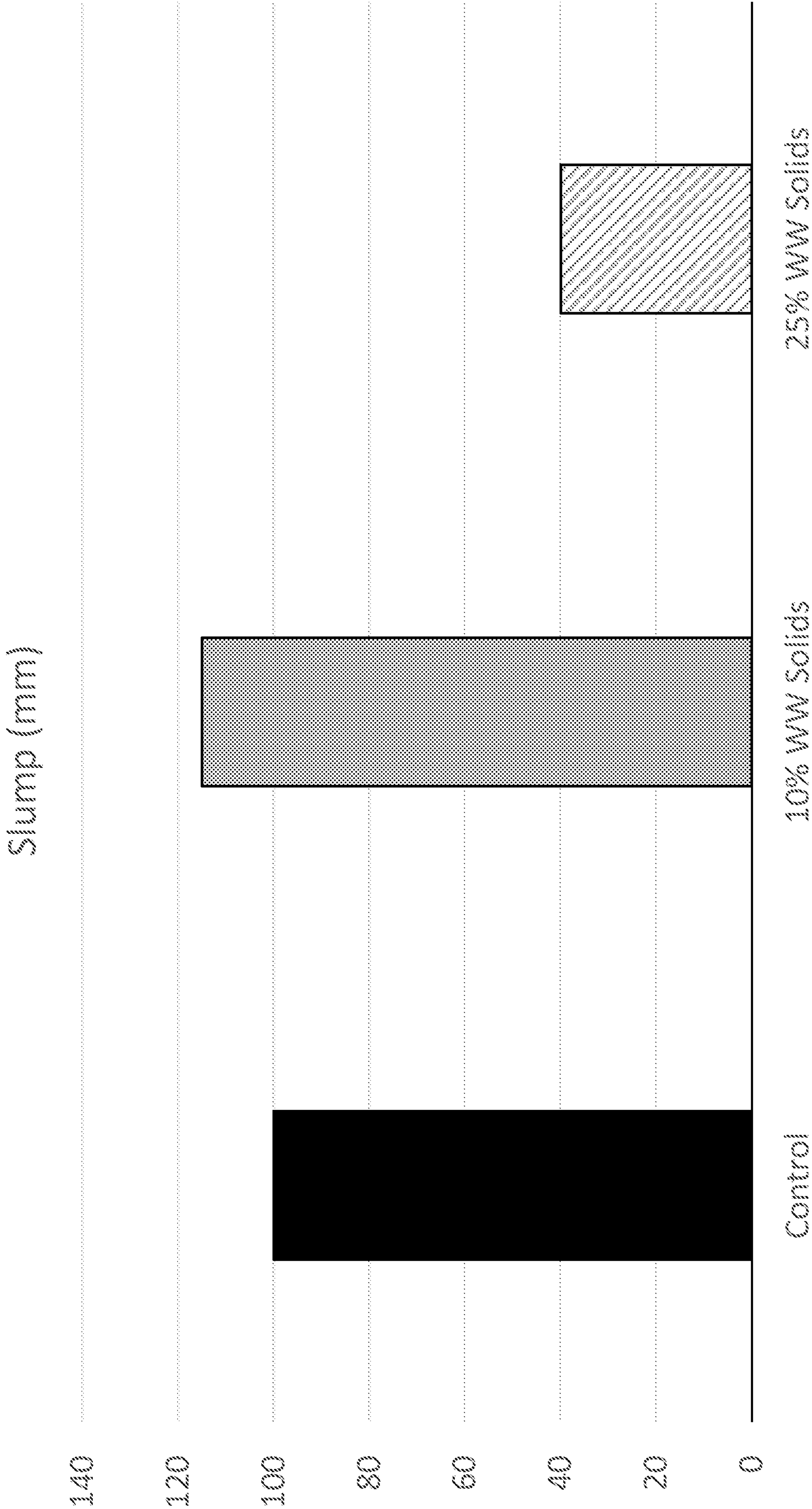


Figure 2

Compressive Strength

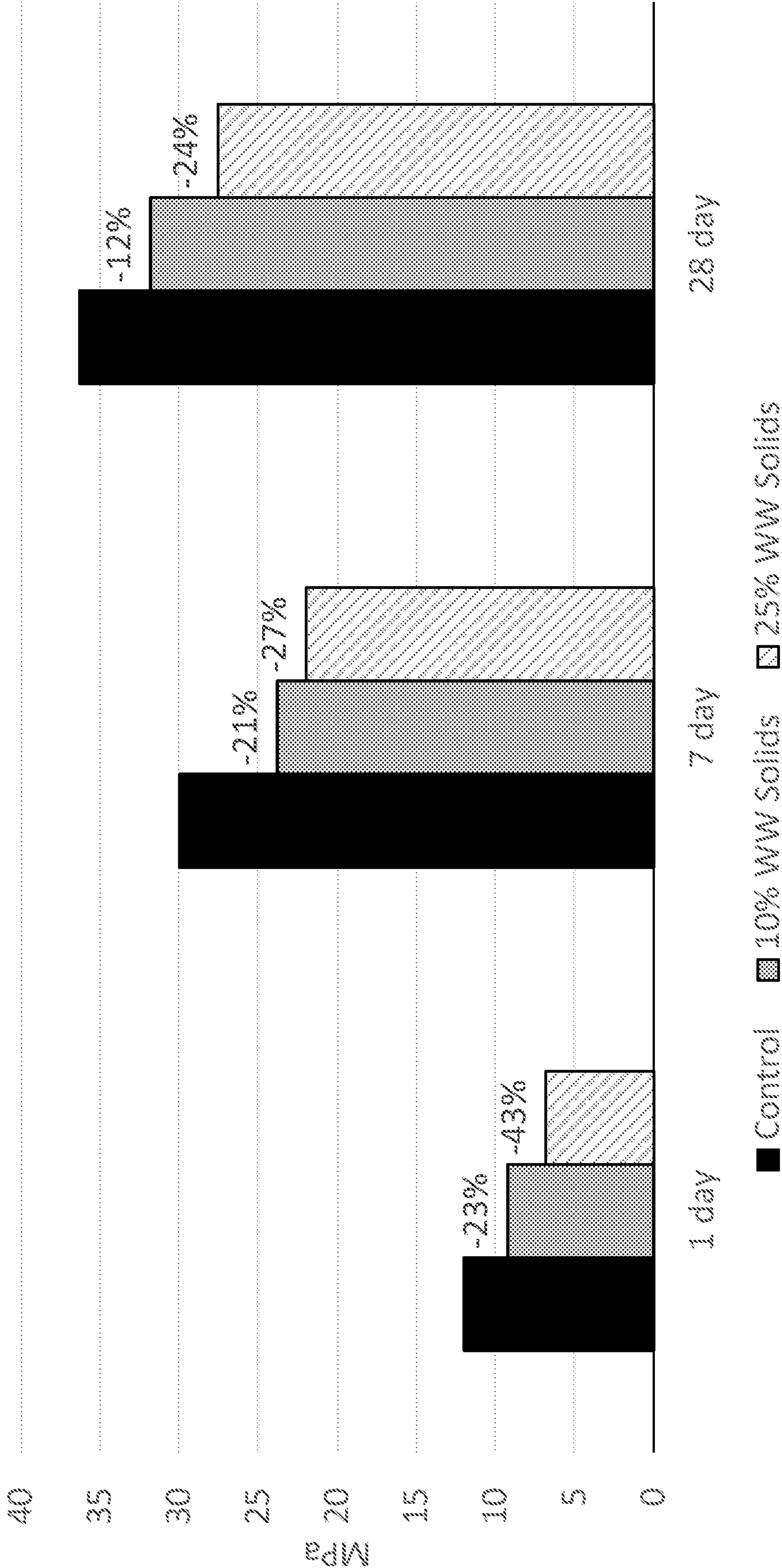


Figure 3

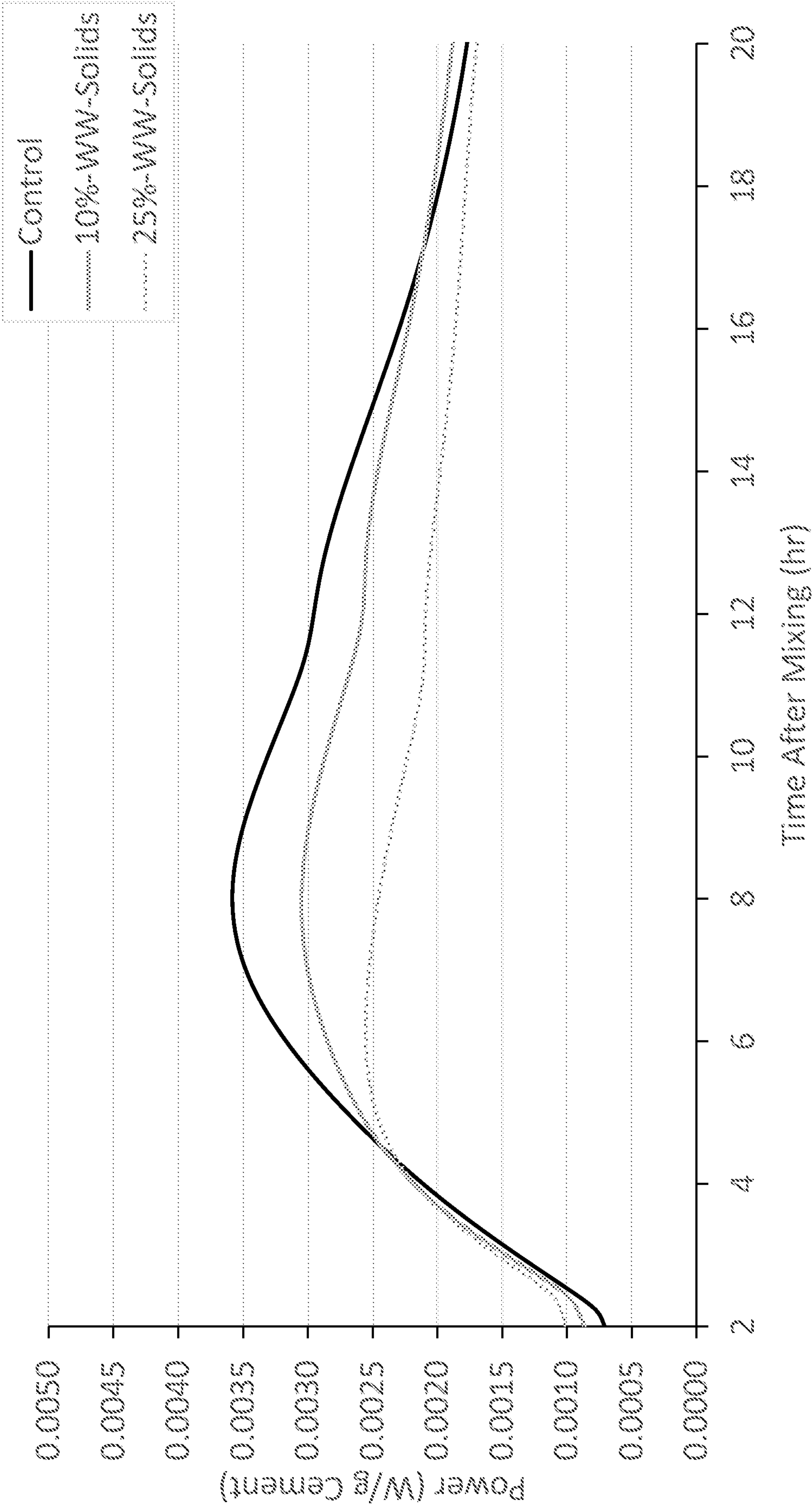


Figure 4

Batch ID	Control	10% WW Solids	25% WW Solids
Sand Mass (kg)	18.99	18.99	18.99
Coarse Agg Mass (kg)	26.24	26.24	26.24
Cement Mass (kg)	7.50	6.75	5.63
Cement Type	LBr	LBr	LBr
Target batch water (kg)	4.69	4.69	4.69
Water Mass (kg)	4.45	4.45	4.45
WW Solids Mass (kg)	0	0.75	1.88
w/c Ratio	0.63	0.63	0.63
Volume (m ³)	0.0242	0.0242	0.0242

LBr = LaFarge Brookfield

Figure 5
Slump (mm)

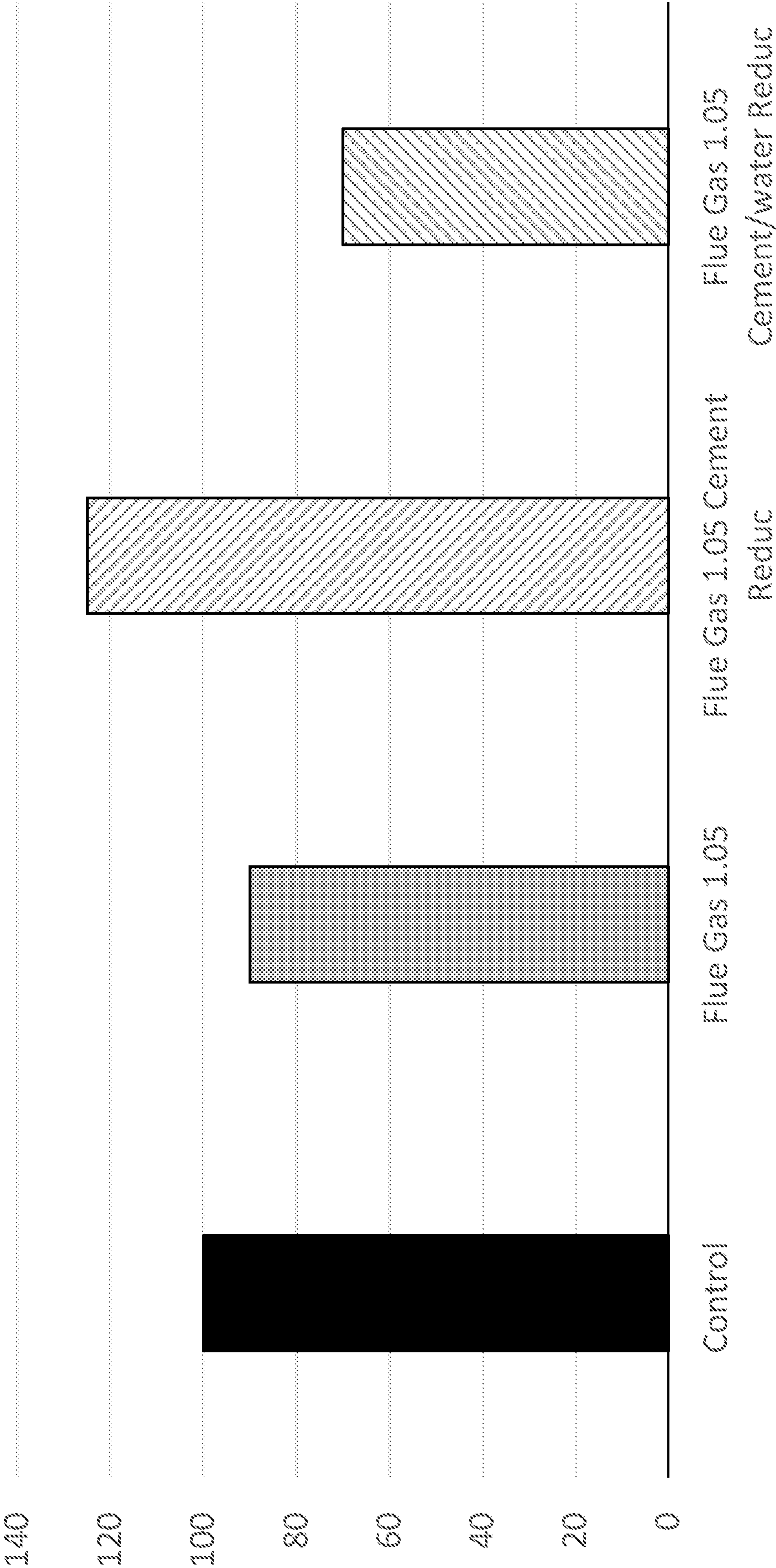


Figure 6

Compressive Strength

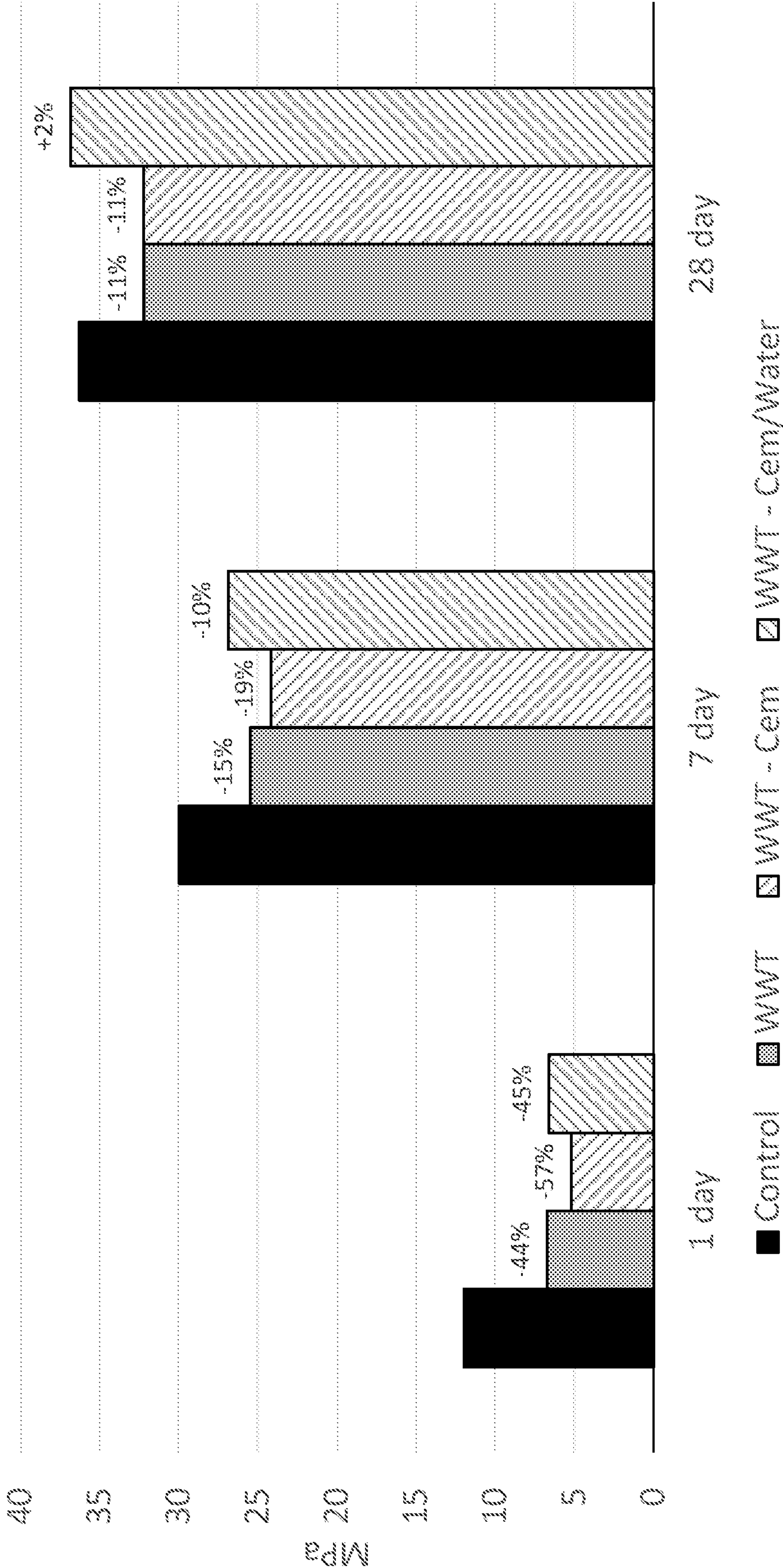


Figure 7

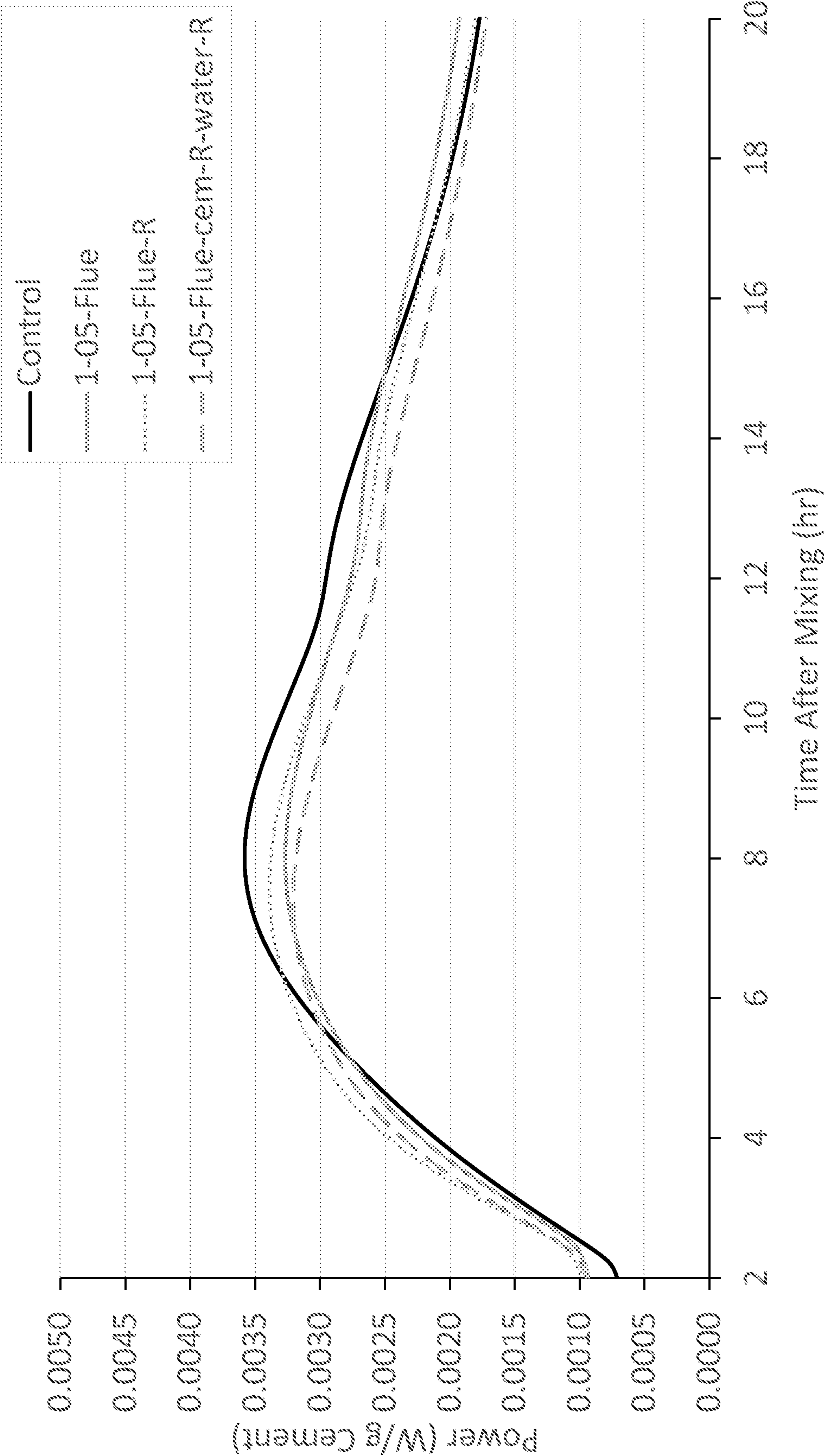


Figure 8

Batch ID	Control	WWT	WWT - Cement	WWT -- Cement & Water
Sand Mass (kg)	18.99	18.99	18.99	18.99
Coarse Agg Mass (kg)	26.24	26.24	26.24	26.24
Cement Mass (kg)	7.50	7.50	7.125	7.125
Fly Ash Mass (kg)	0	0	0	0
Target batch water (kg)	4.69	4.69	4.69	4.69
Water Mass (kg)	4.45	0	0	0
WW mass (kg)	0.00	4.79	4.79	4.55
Washwater Solids (kg)	0.00	0.34	0.34	0.32
w/c Ratio	0.63	0.60	0.63	0.60
Volume (m3)	0.0242	0.0243	0.0241	0.0239

Figure 9

Slump (mm)

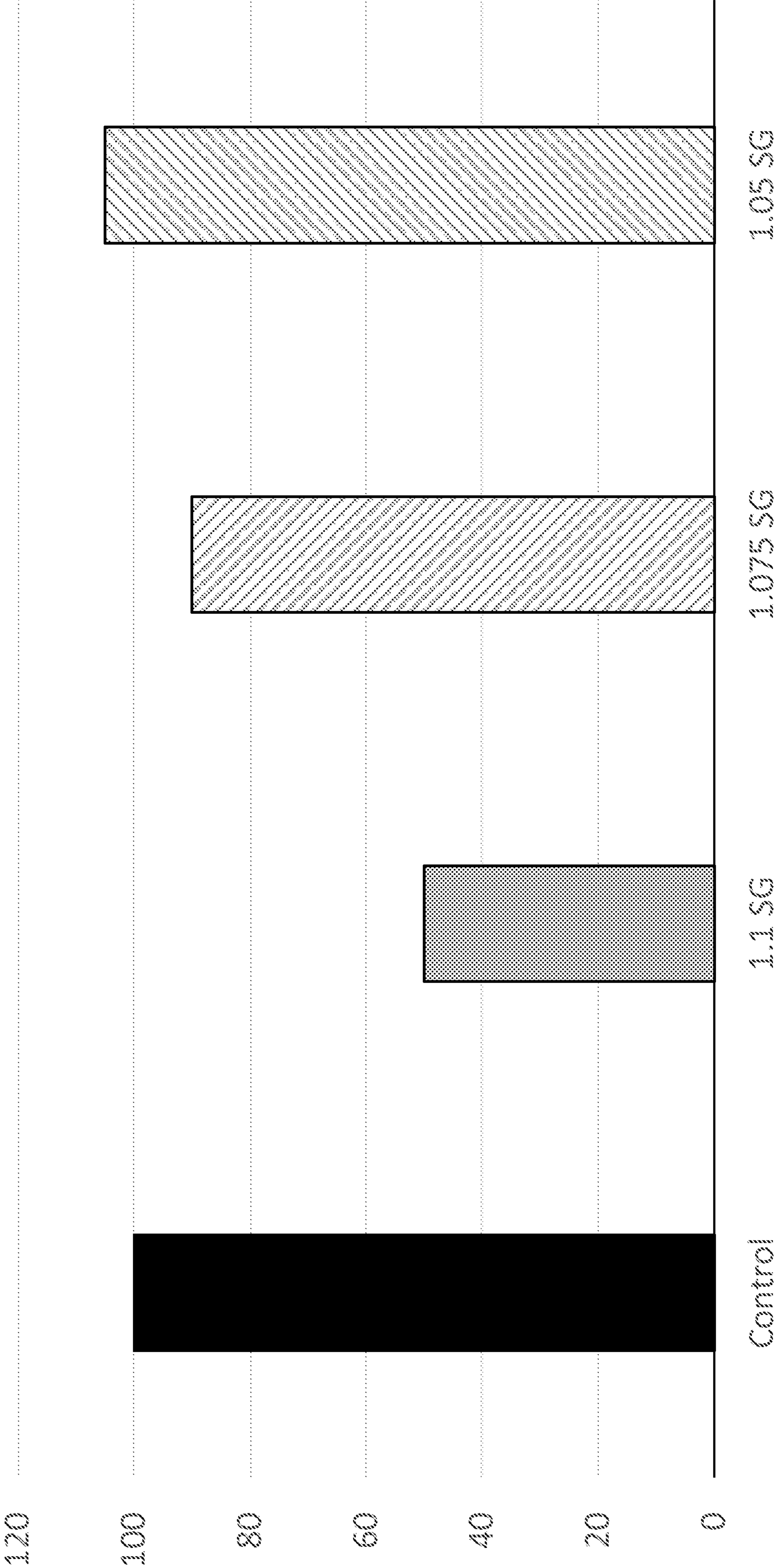


Figure 10

Compressive Strength

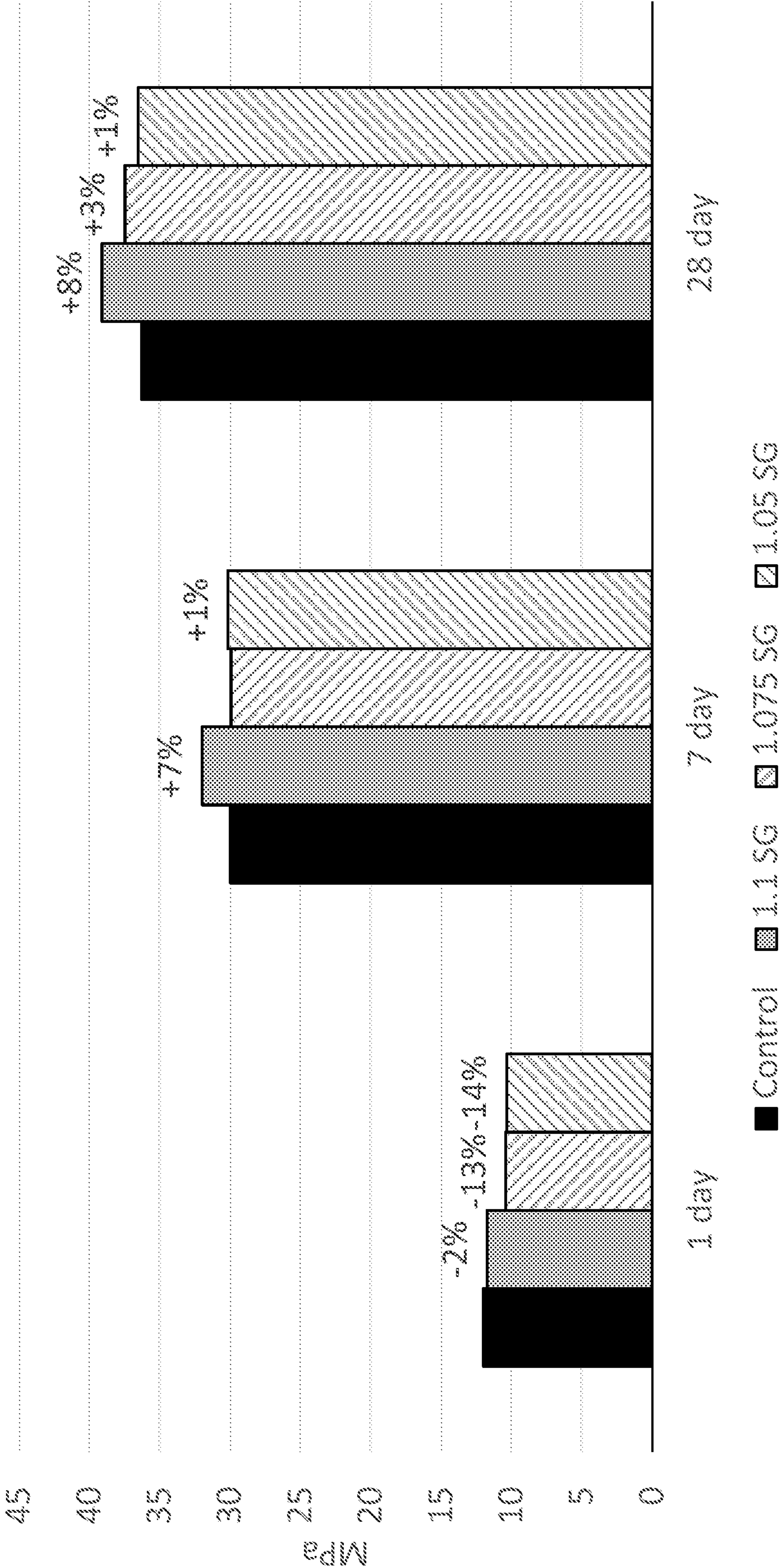


Figure 11

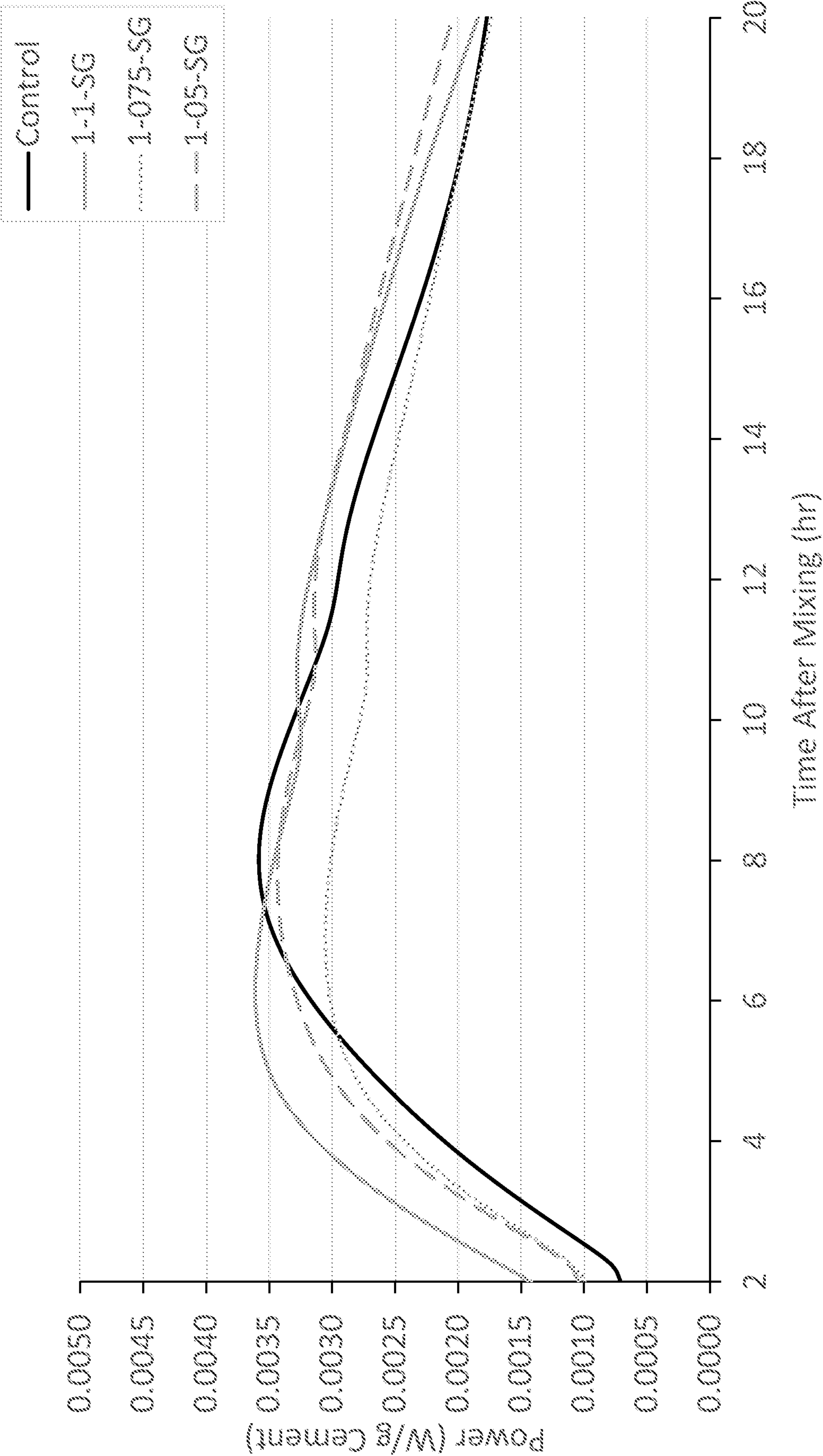


Figure 12

Batch ID	Control	WWT 1.10 SG	WWT 1.075 SG	WWT 1.05 SG
Sand Mass (kg)	18.99	18.99	18.99	18.99
Coarse Agg Mass (kg)	26.24	26.24	26.24	26.24
Cement Mass (kg)	7.50	7.50	7.50	7.125
Cement Type	LBr	LBr	LBr	LBr
Target batch water (kg)	4.69	4.69	4.69	4.69
Water Mass (kg)	4.45	0	0	0
WW mass (kg)	0	5.13	4.96	4.78
Cement in Water (kg)	0	0.68	0.51	0.33
w/c Ratio	0.63	0.57	0.59	0.60
Volume (m ³)	0.0242	0.0243	0.0243	0.0243

LBr = LaFarge Brookfield

Figure 13

Slump (mm)

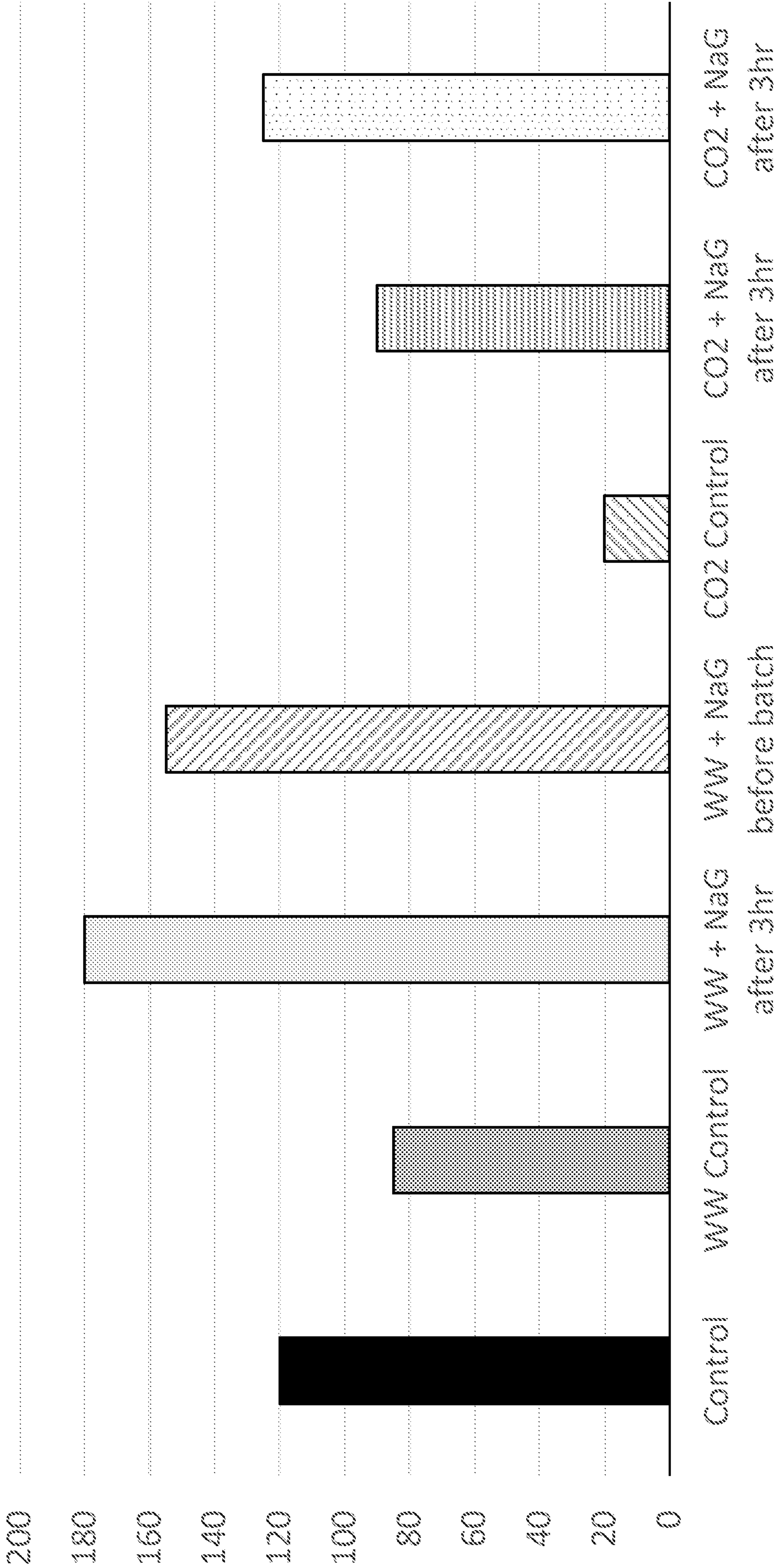


Figure 14

Compressive Strength

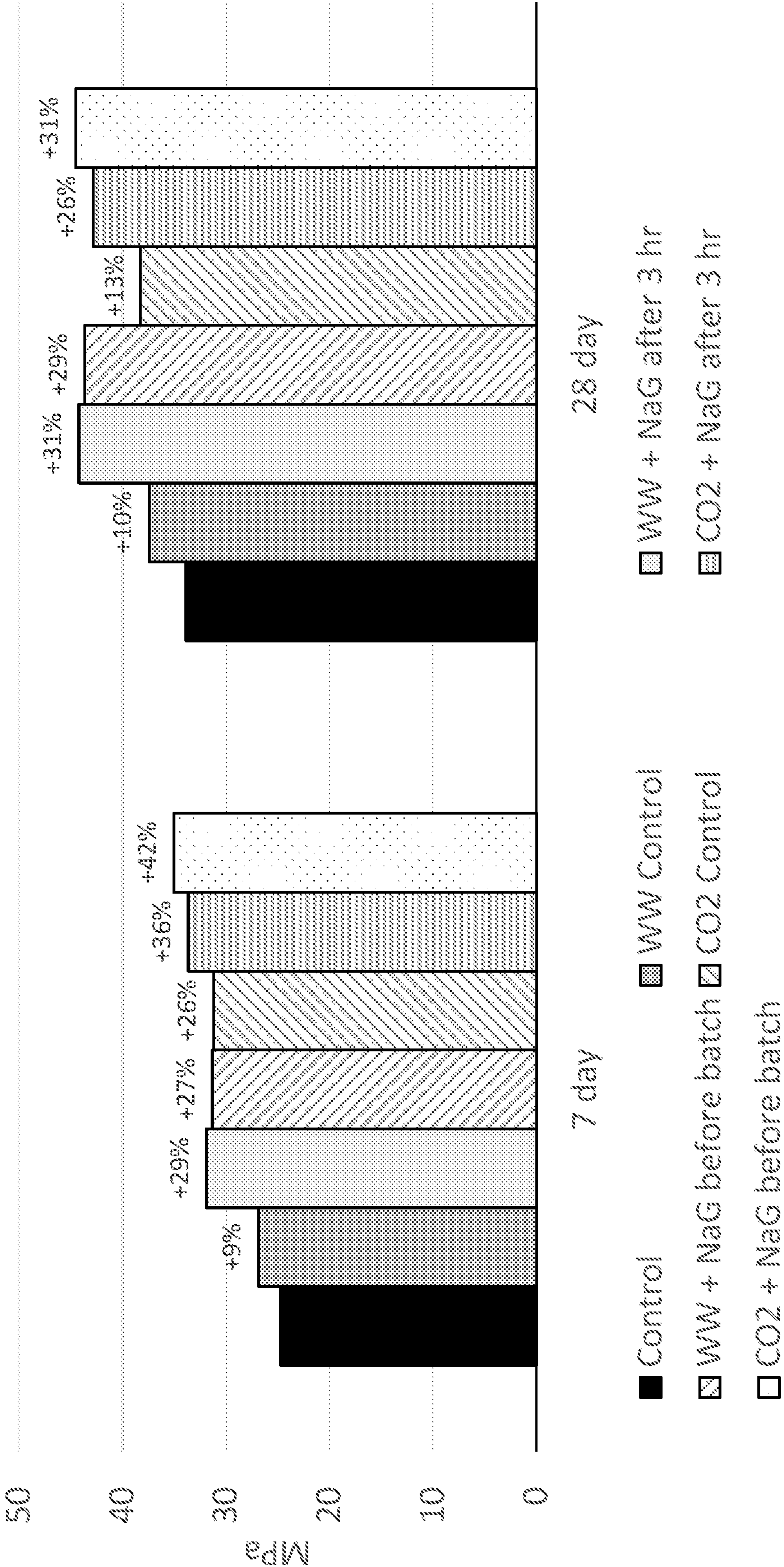


Figure 15

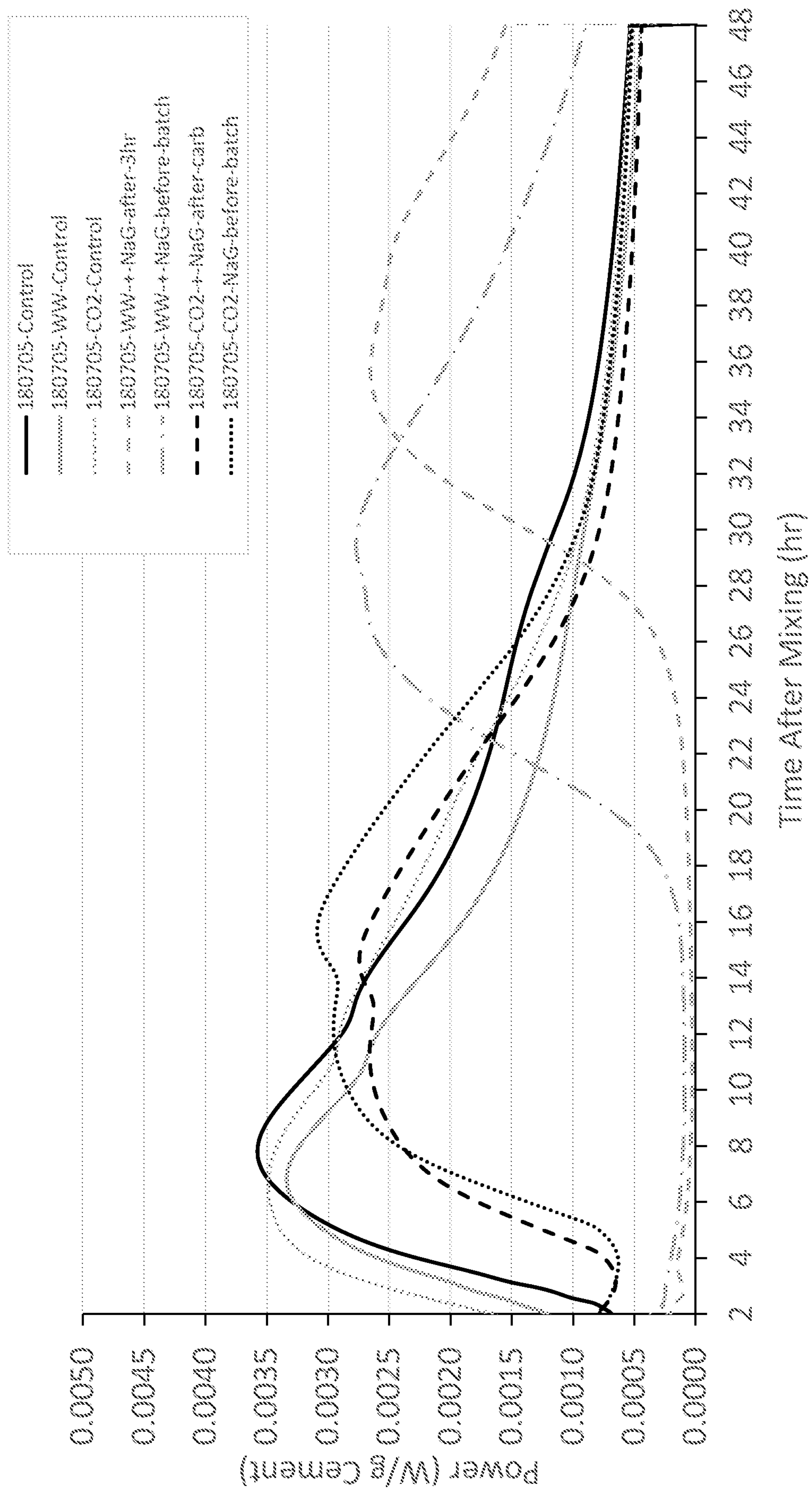


Figure 16

Batch ID	Control	WW Control	WWT Control	WW NaG after 3 hrs	WW NaG after 24 hrs	WWT NaG after 3 hrs	WWT NaG after 24 hrs
Sand Mass (kg)	18.99	18.99	18.99	18.99	18.99	18.99	18.99
Coarse Agg Mass (kg)	26.24	26.24	26.24	26.24	26.24	26.24	26.24
Cement Mass (kg)	7.50	6.75	7.50	7.50	7.50	7.50	7.50
Target batch water (kg)	4.69	4.69	4.69	4.69	4.69	4.69	4.69
Water Mass (kg)	4.45	0	0	0	0	0	0
Washwater Mass (kg)	0	5.13	5.13	5.13	5.13	5.13	5.13
WW Solids Mass (kg)	0	0.68	0.68	0.68	0.68	0.68	0.68
w/c Ratio	0.63	0.57	0.57	0.57	0.57	0.57	0.57
Volume (m³)	0.0242	0.0244	0.0244	0.0244	0.0244	0.0244	0.0244

Figure 17

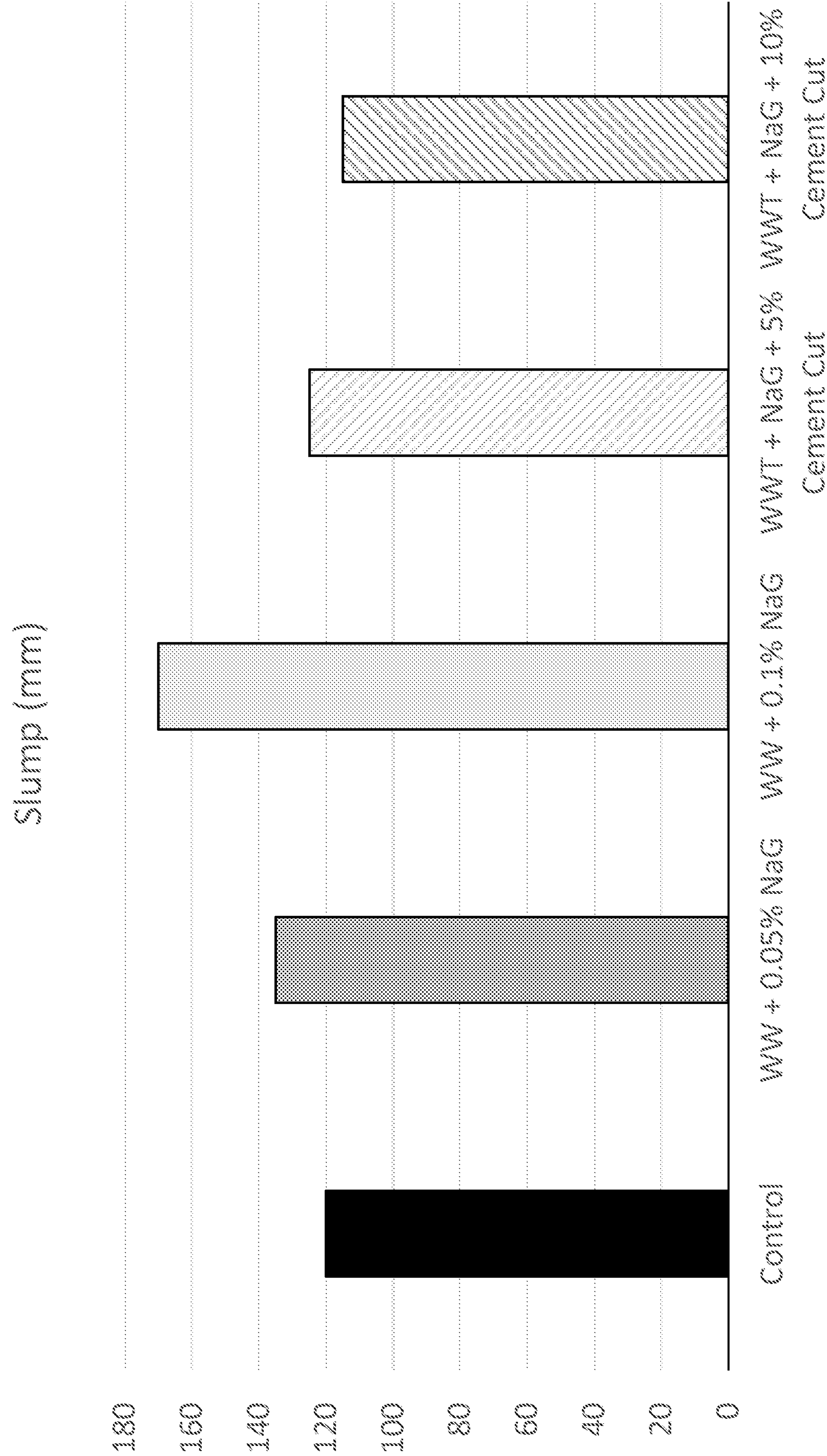


Figure 18

Compressive Strength

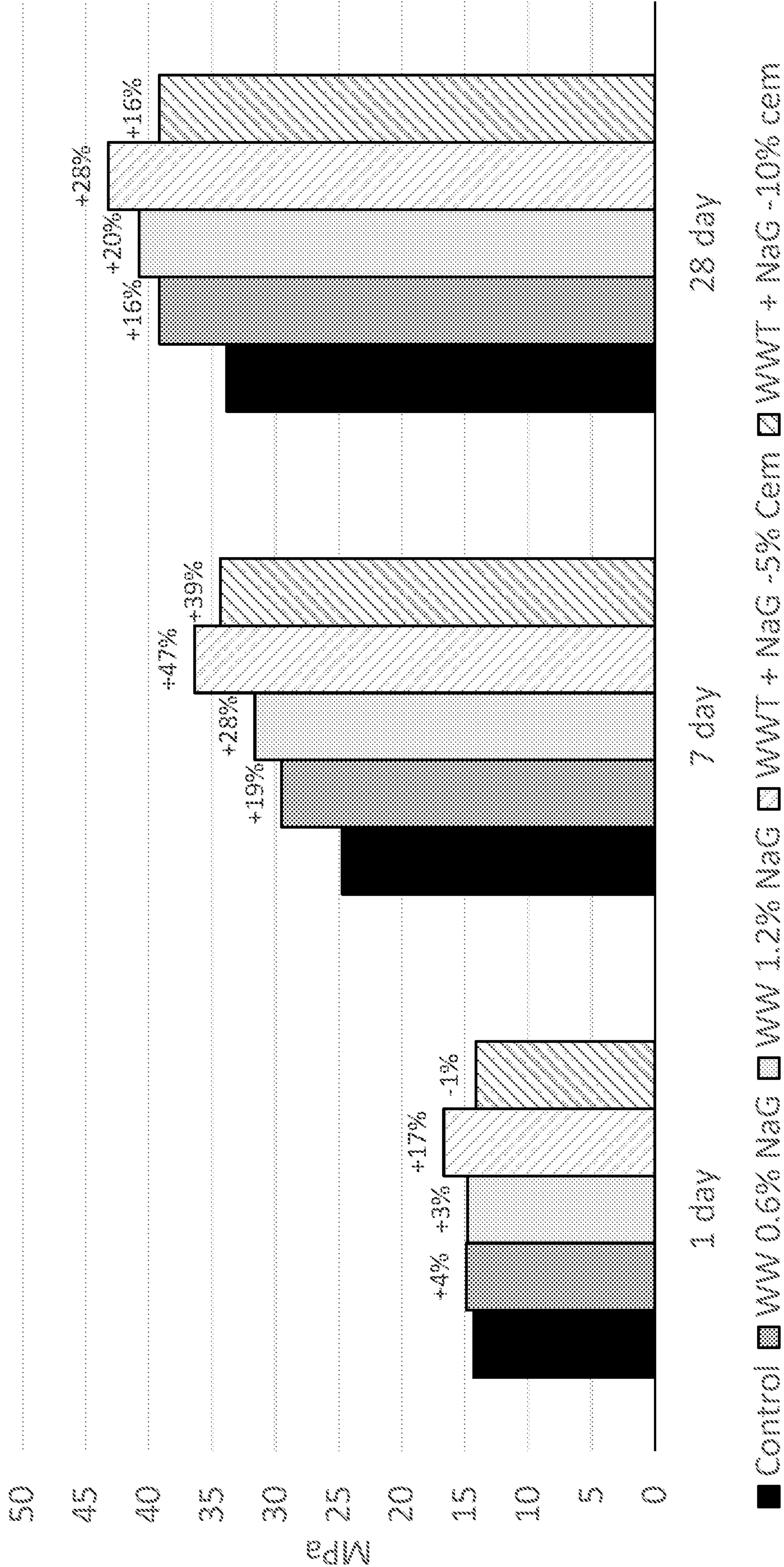


Figure 19

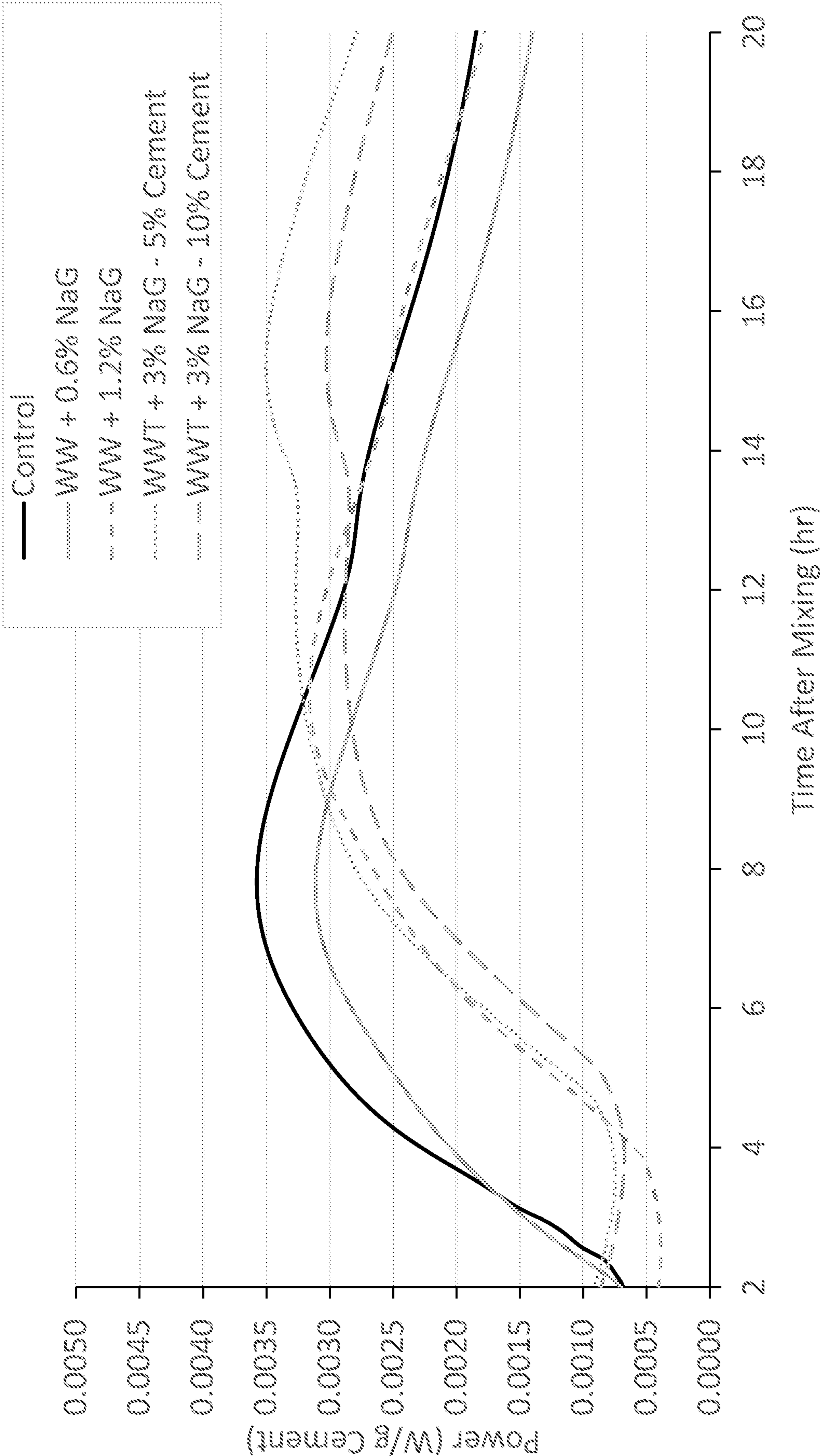


Figure 20

Batch ID	Control	WW + 0.6% NaG	WW + 1.2% NaG	WWT + NaG + 5% Cement Cut	WWT + NaG + 10% Cement Cut
Sand Mass (kg)	18.99	18.99	18.99	18.99	18.99
Coarse Agg Mass (kg)	26.24	26.24	26.24	26.24	26.24
Cement Mass (kg)	7.50	7.50	7.50	7.125	6.75
Cement Type	LBr	LBr	LBr	LBr	LBr
Target batch water (kg)	4.69	4.69	4.69	4.69	4.69
Water Mass (kg)	4.45	0	0	0	0
WW mass (kg)	0	5.13	5.13	5.13	5.13
Cement in Water (kg)	0	0.68	0.68	0.68	0.68
w/c Ratio	0.63	0.57	0.57	0.60	0.63
Volume (m³)	0.0242	0.0243	0.0243	0.0242	0.0241

LBr = LaFarge Brookfield

Figure 21

Slump (mm)

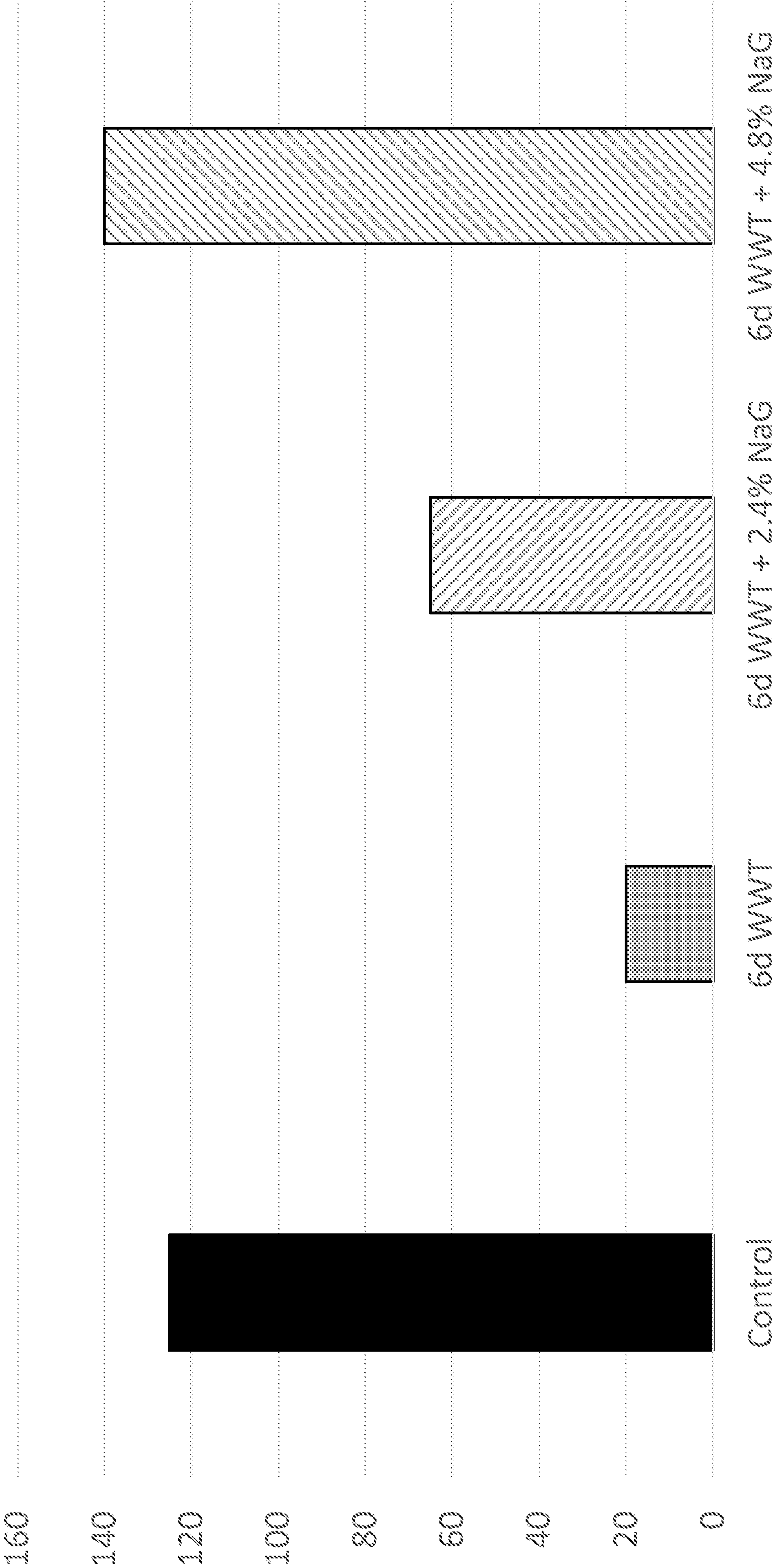


Figure 22

Compressive Strength

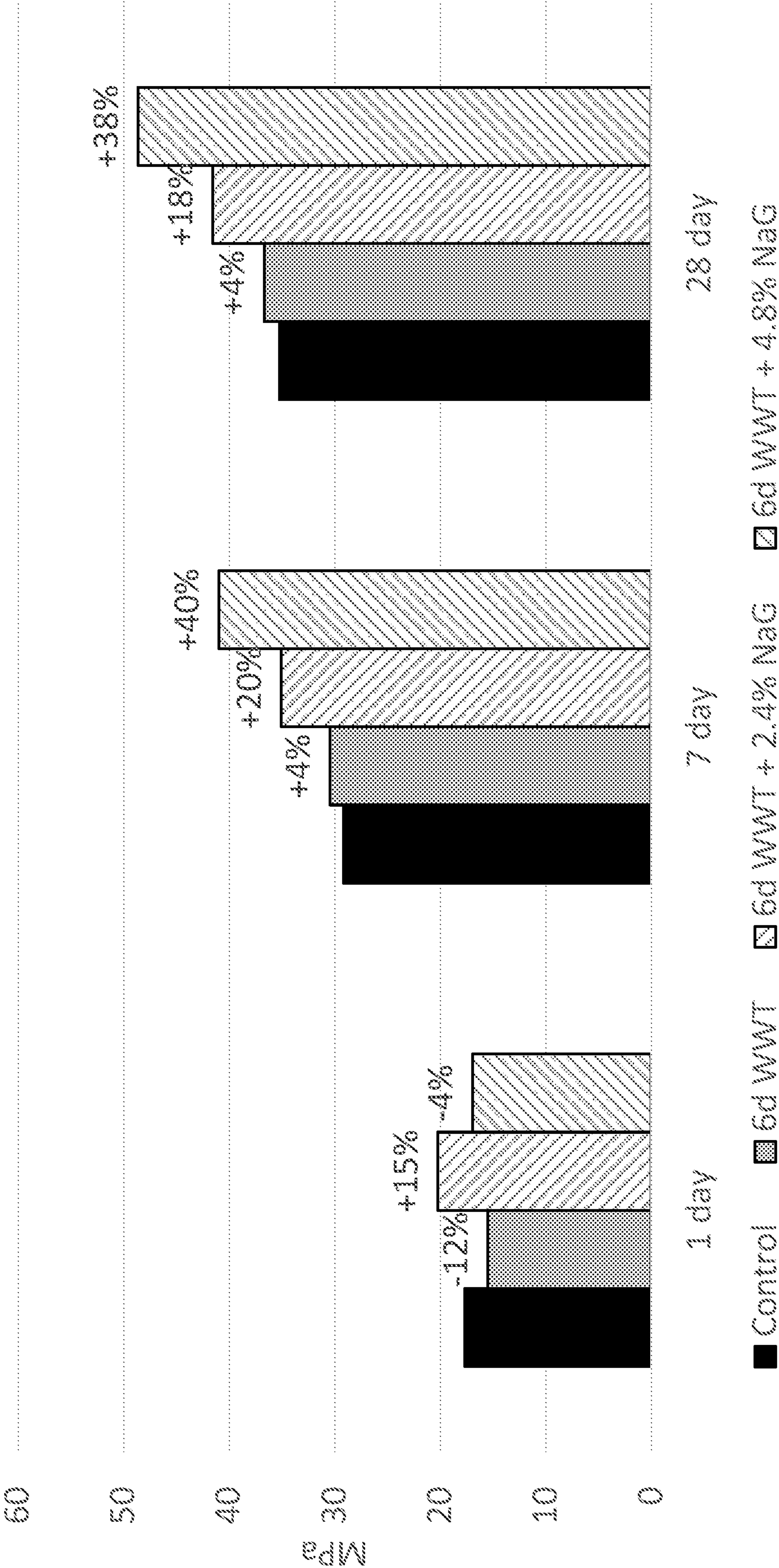


Figure 23

Batch ID	Control	6d WWT	6d WWT + 2.4% NaG	6d WWT + 4.8% NaG
Sand Mass (kg)	18.99	18.99	18.99	18.99
Coarse Agg Mass (kg)	26.24	26.24	26.24	26.24
Cement Mass (kg)	7.50	7.50	7.50	7.50
Fly Ash Mass (kg)	0	0	0	0
Target batch water (kg)	4.69	4.69	4.69	4.69
Water Mass (kg)	4.45	0	0	0
WW mass (kg)	0.00	5.13	5.13	5.13
Washwater Solids (kg)	0.00	0.68	0.68	0.68
w/c Ratio	0.60	0.57	0.57	0.57
Volume (m3)	0.0242	0.0244	0.0244	0.0244

Figure 24

Slump (mm)

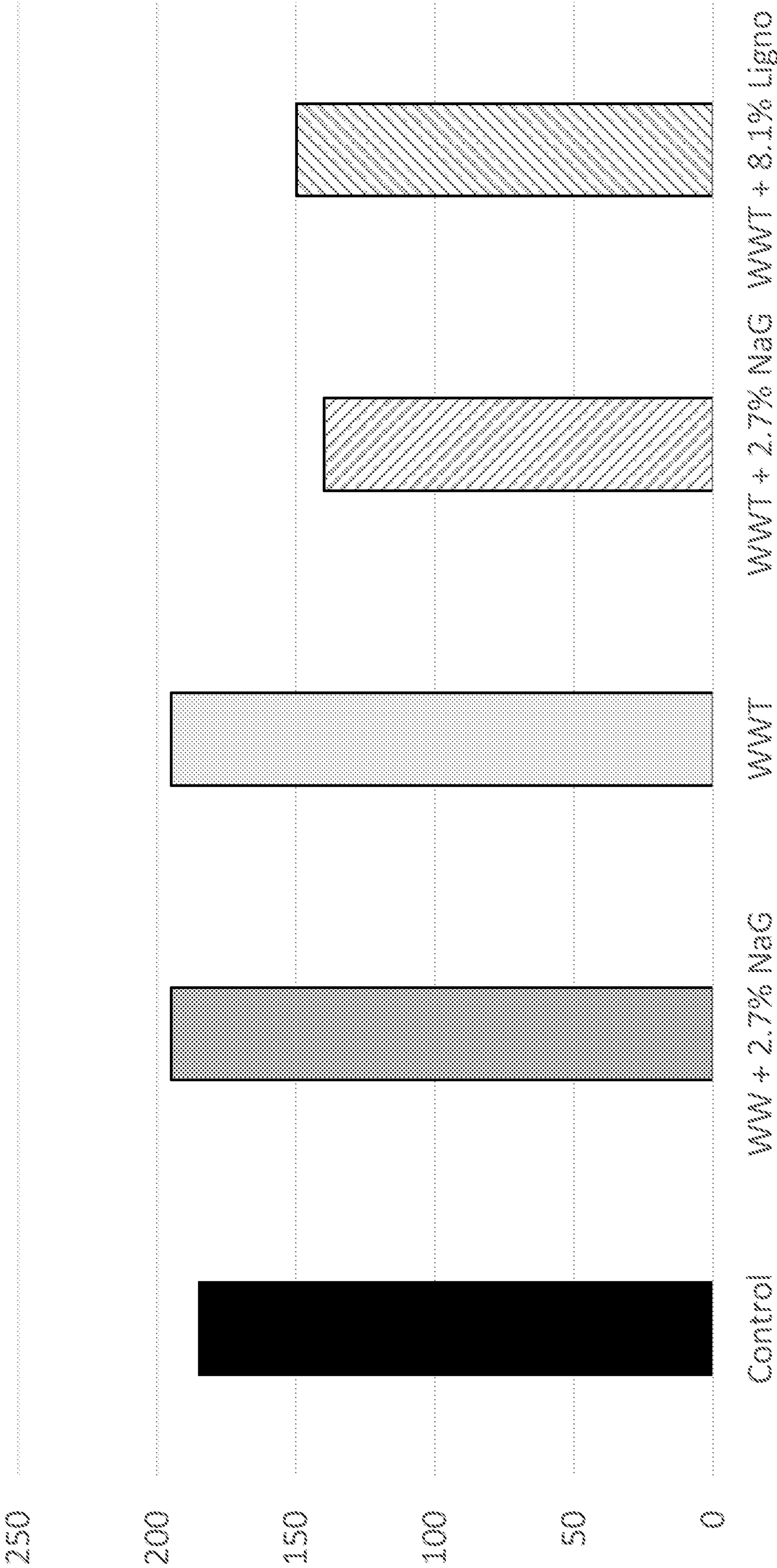


Figure 25

Compressive Strength

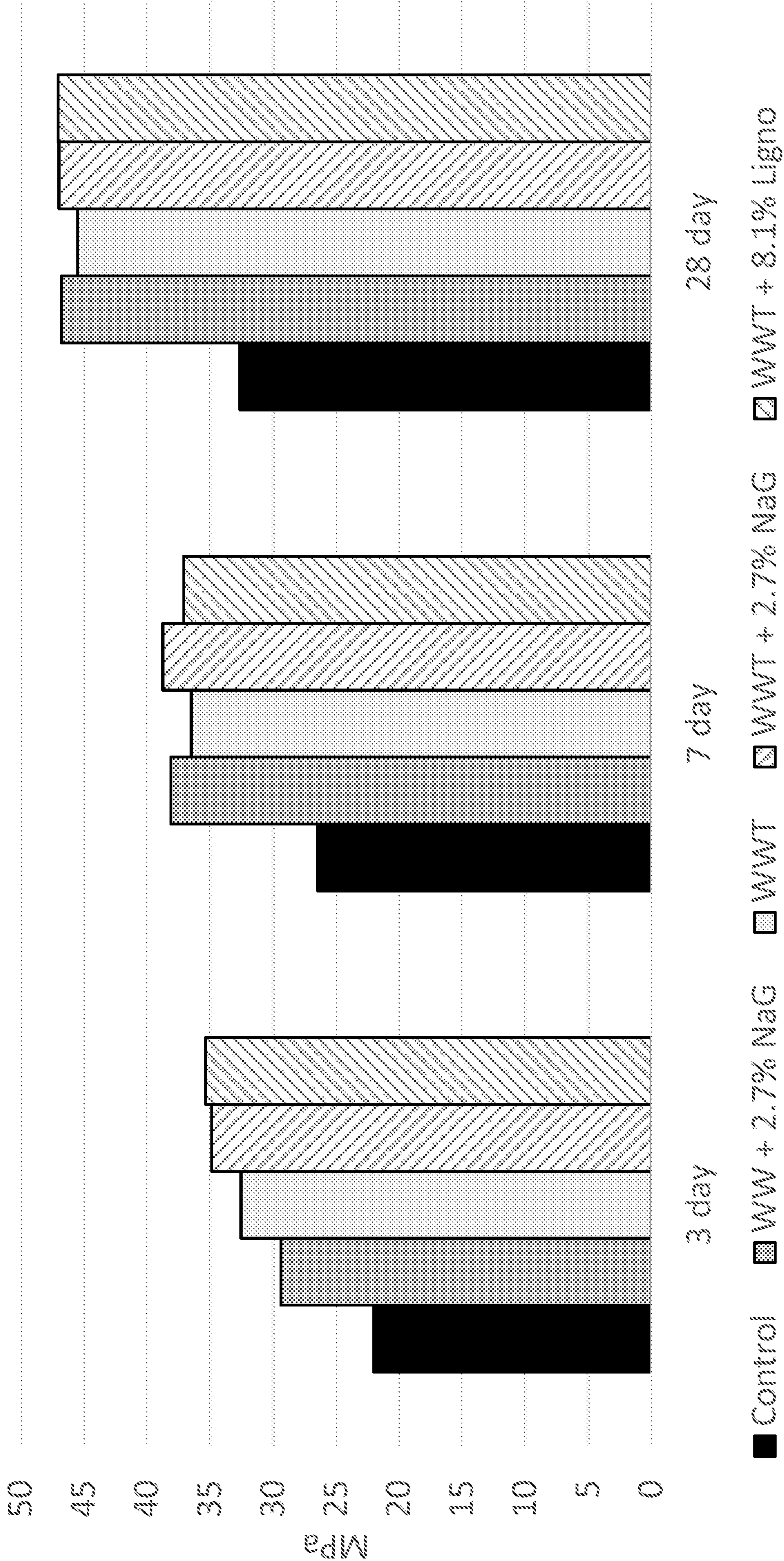


Figure 26

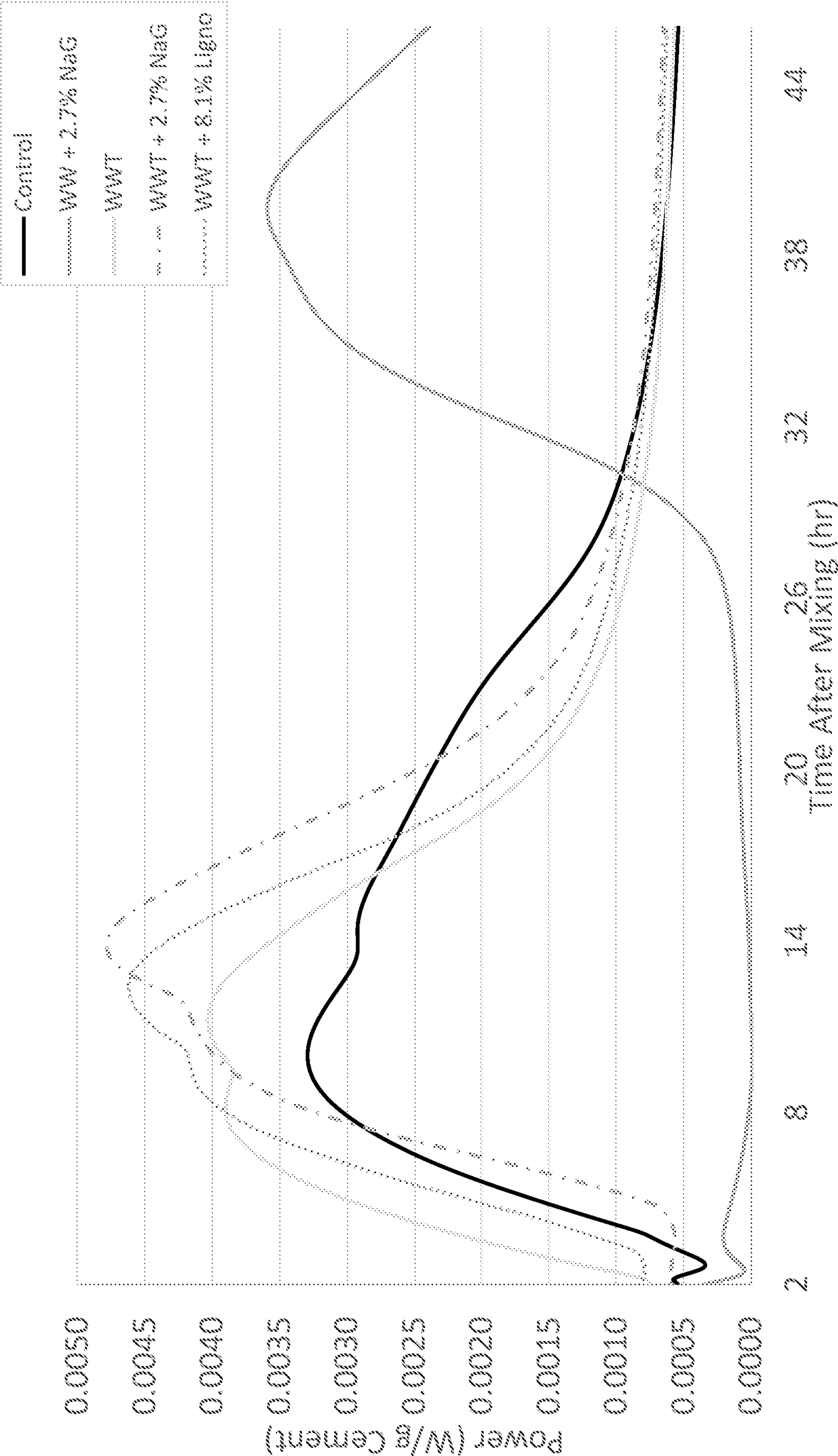


Figure 27

Batch ID	Control	WW + NaG	WWT	WWT + NaG	WWT + Ligno
Sand Mass (kg)	22.90	22.90	22.90	22.90	22.90
Coarse Agg Mass (kg)	27.18	27.18	27.18	27.18	27.18
Cement Mass (kg)	6.88	6.88	6.88	6.88	6.88
Fly Ash Mass (kg)	1.72	1.72	1.72	1.72	1.72
Target batch water (kg)	3.87	3.87	3.87	3.87	3.87
Water Mass (kg)	3.58	0.00	0.00	0.00	0.00
Washwater Mass (kg)	0.00	4.13	4.13	4.13	4.13
WW Solids Mass (kg)	0	0.55	0.55	0.55	0.55
w/c Ratio	0.45	0.42	0.42	0.42	0.42
Volume (m³)	0.0257	0.0258	0.0258	0.0258	0.0258

Figure 28

Slump (mm)

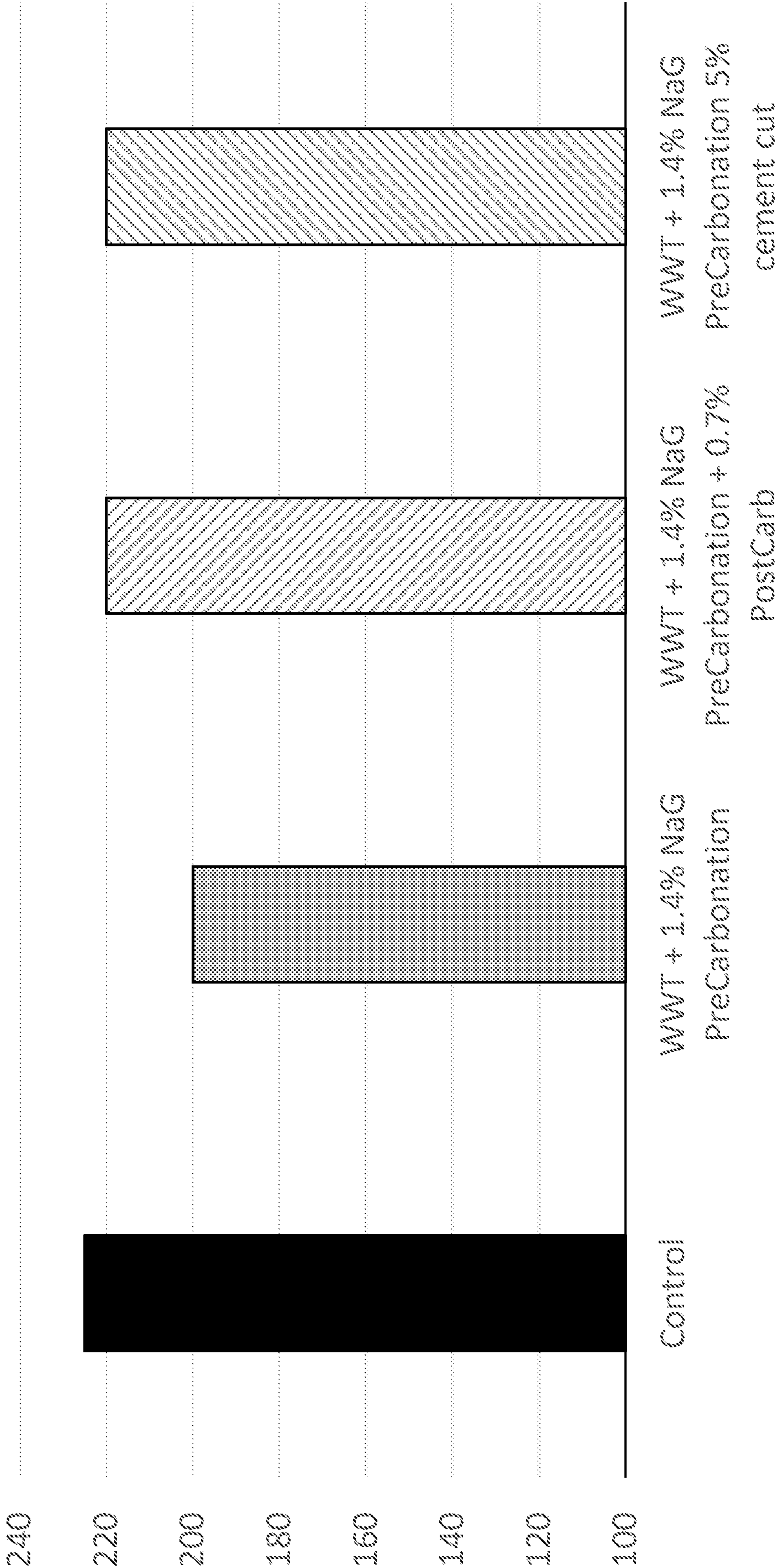


Figure 29

Compressive Strength

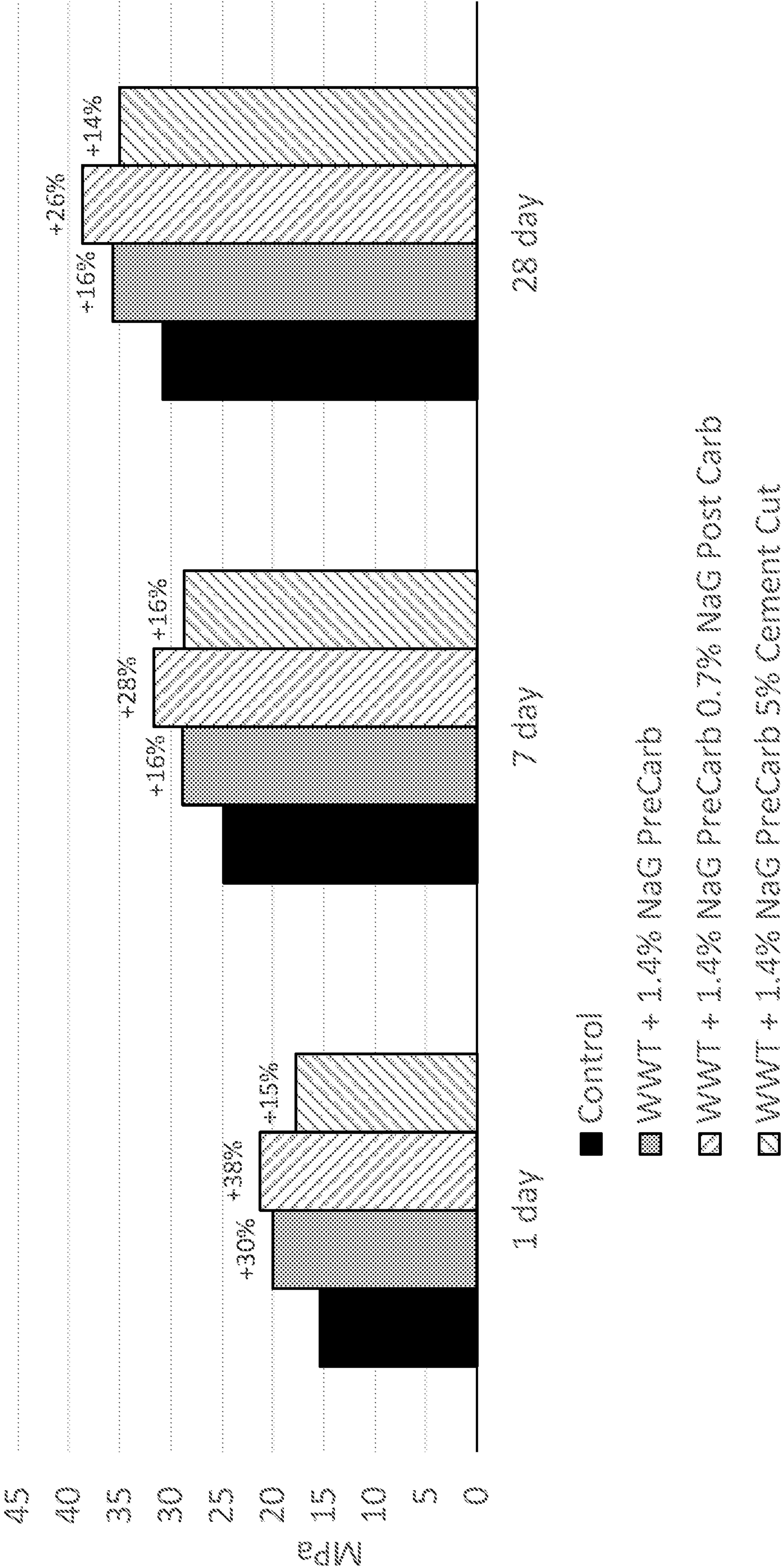


Figure 30

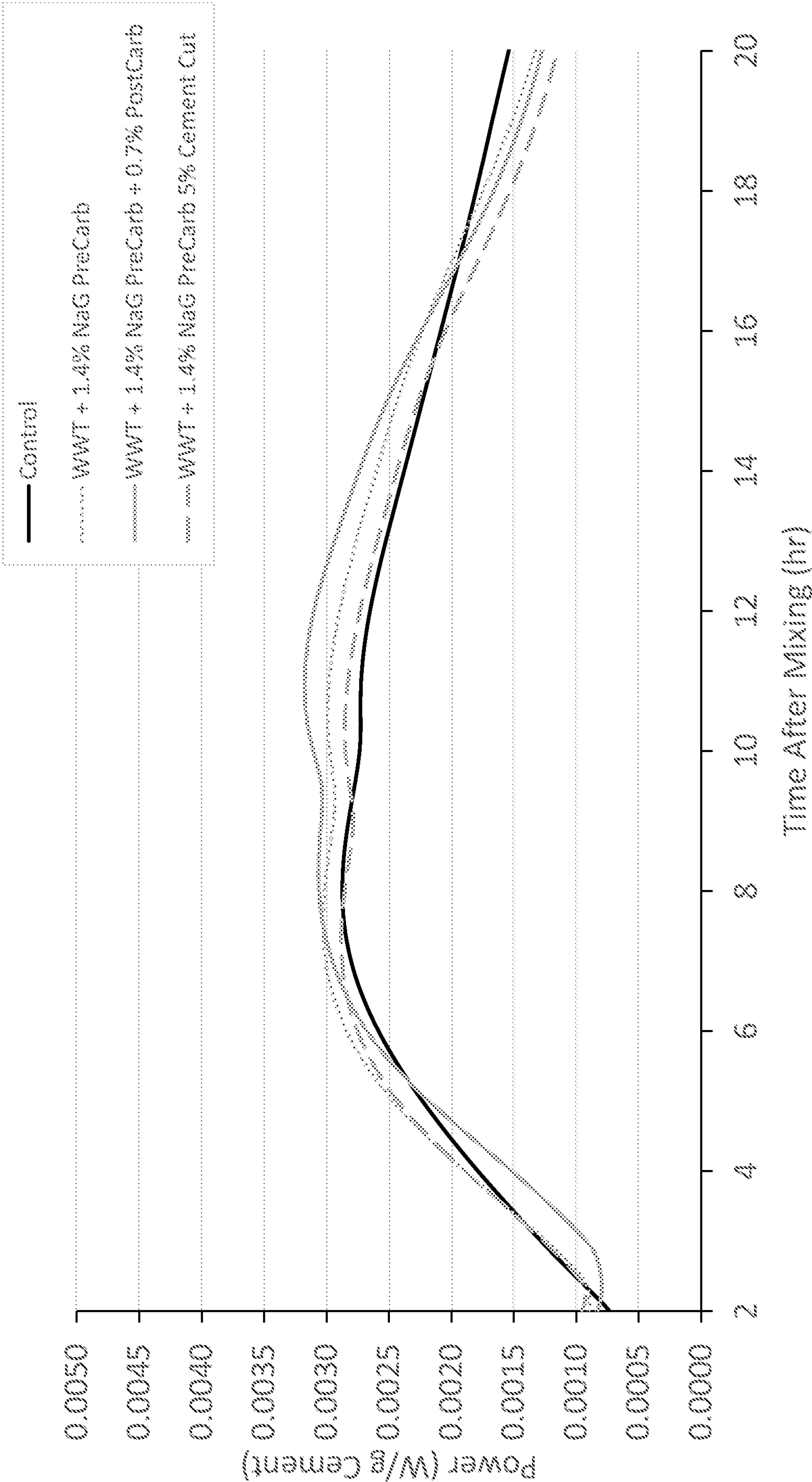


Figure 31

Batch ID	Control	WWT + 1.4% NaG PreCarbonation	WWT + 2% NaG PreCarbonation + 0.5% PostCarb	WWT + 1.4% NaG PreCarbonation	WWT + 1.4% NaG PreCarbonation 5% cement cut
Sand Mass (kg)	22.90	22.90	22.90	22.90	22.90
Coarse Agg Mass (kg)	27.18	27.18	27.18	27.18	27.18
Cement Mass (kg)	6.88	6.88	6.88	6.88	6.54
Fly Ash Mass (kg)	1.72	1.72	1.72	1.72	1.63
Target batch water (kg)	3.87	3.87	3.87	3.87	3.87
Water Mass (kg)	3.58	0.00	0.00	0.00	0.00
WW mass (kg)	0.00	4.13	4.13	4.13	4.13
Washwater Solids (kg)	0.00	0.55	0.55	0.55	0.55
w/c Ratio	0.50	0.47	0.47	0.47	0.49
Volume (m3)	0.0261	0.0262	0.0262	0.0262	0.0262

Figure 32

Slump (mm)

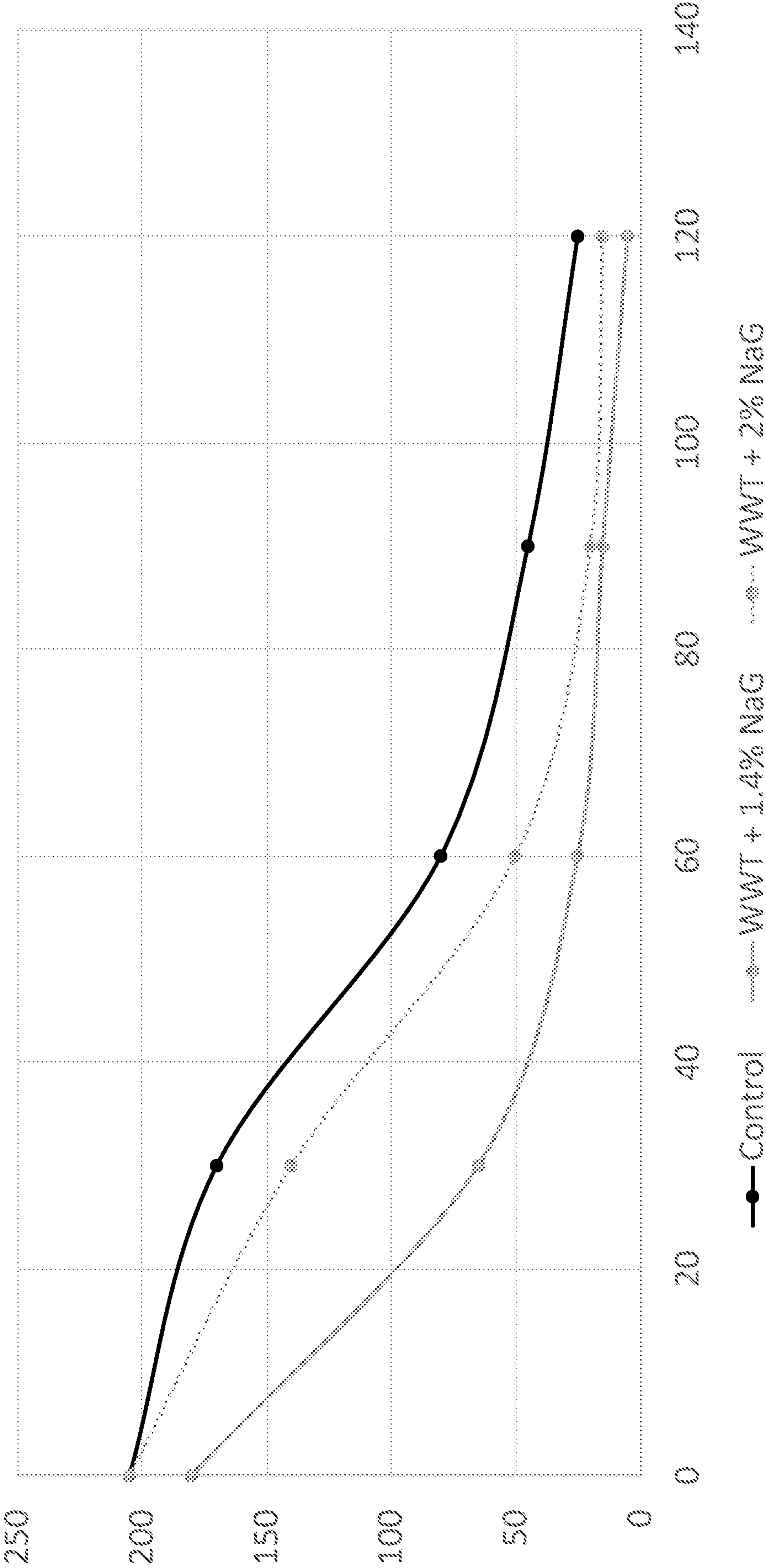


Figure 33

Compressive Strength

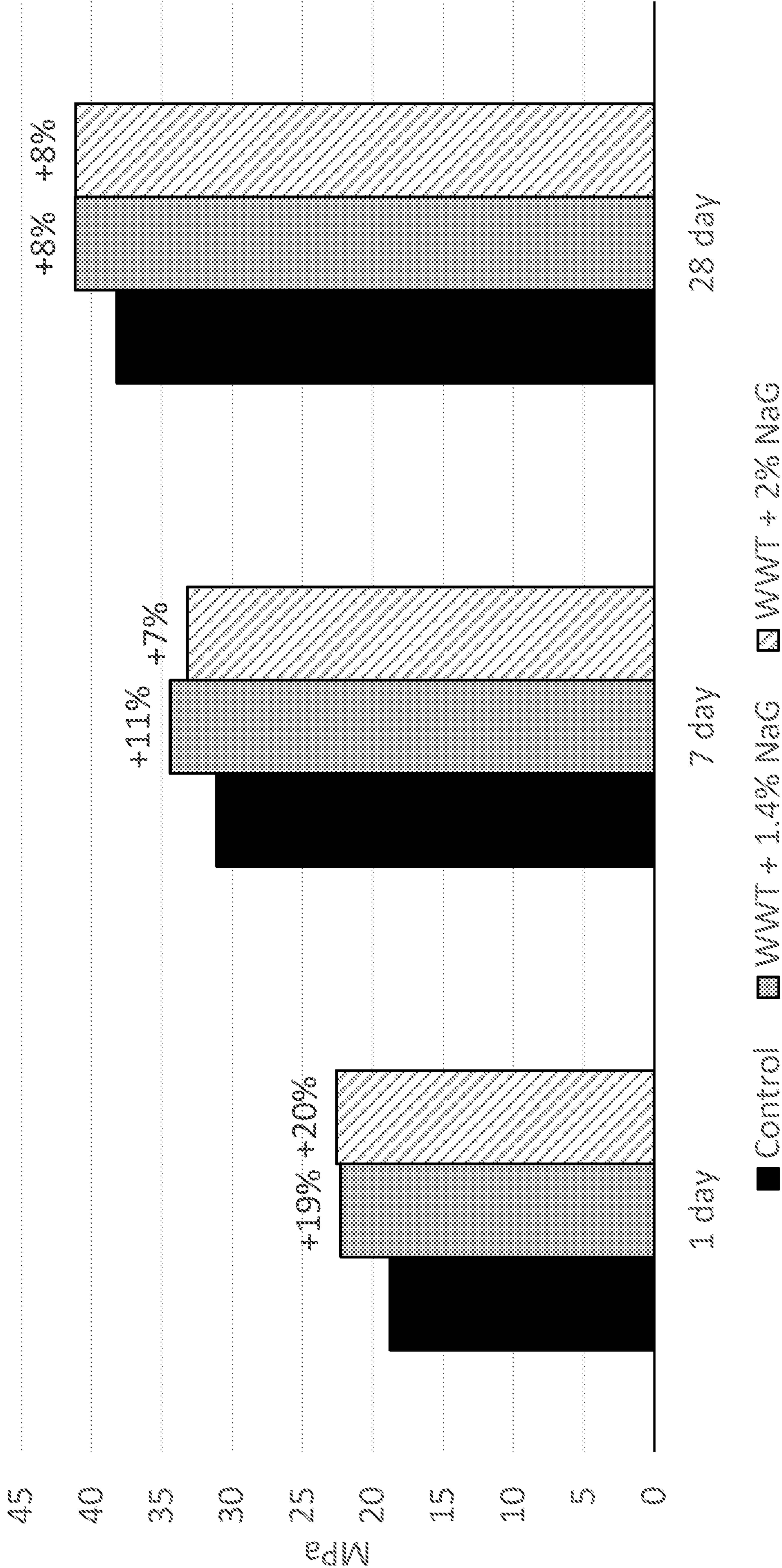


Figure 34

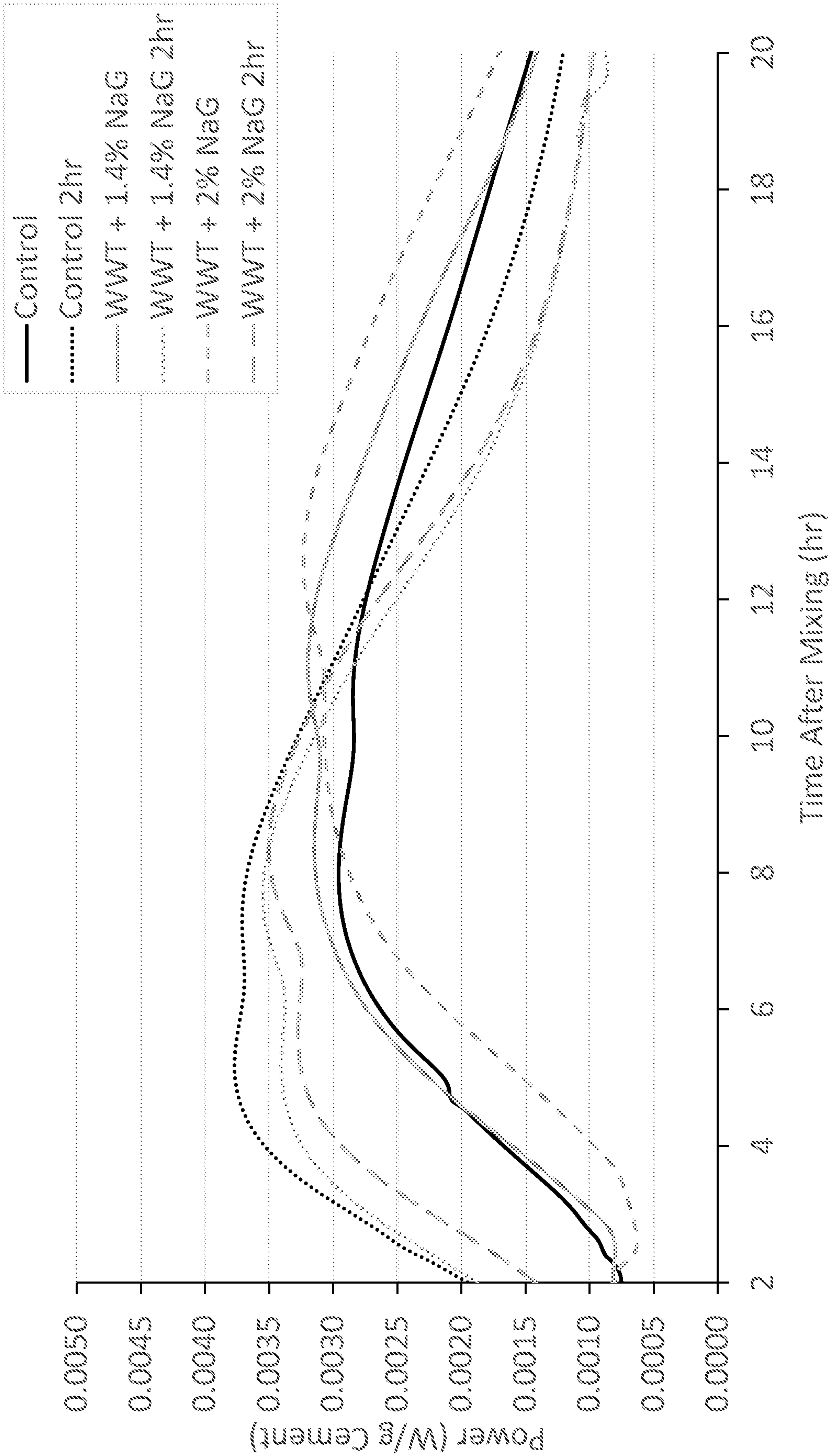


Figure 35

Batch ID	Control	WWT + 1.4% NaG	WWT + 2% NaG
Sand Mass (kg)	22.90	22.90	22.90
Coarse Agg Mass (kg)	27.18	27.18	27.18
Cement Mass (kg)	6.88	6.88	6.88
Fly Ash Mass (kg)	1.72	1.72	1.72
Target batch water (kg)	3.87	3.87	3.87
Water Mass (kg)	3.58	0.00	0.00
WW mass (kg)	0.00	4.13	4.13
Washwater Solids (kg)	0.00	0.55	0.55
w/c Ratio	0.45	0.42	0.42
Volume (m3)	0.0257	0.0258	0.0258

Figure 36

Slump (mm)

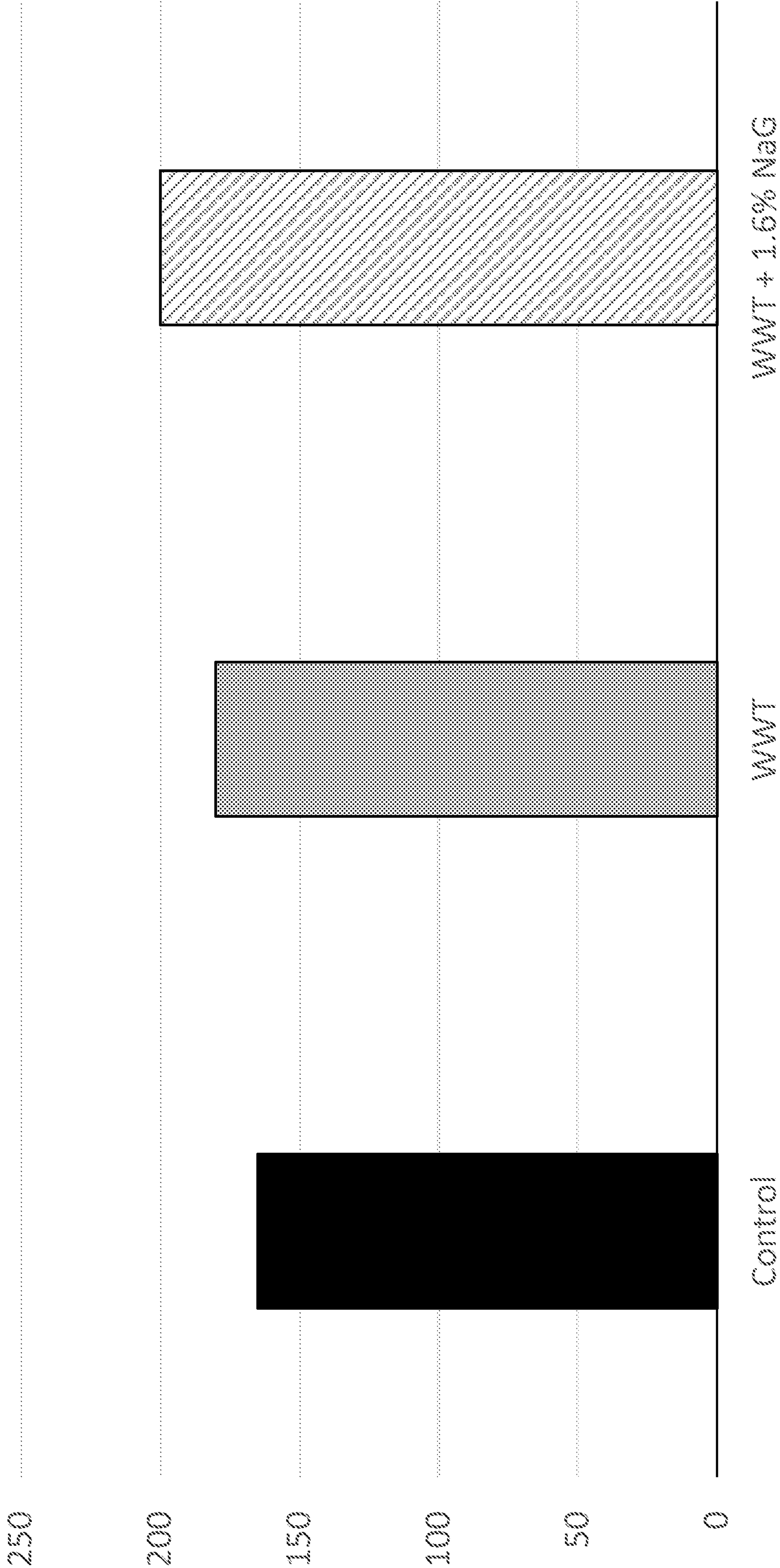


Figure 37

Compressive Strength

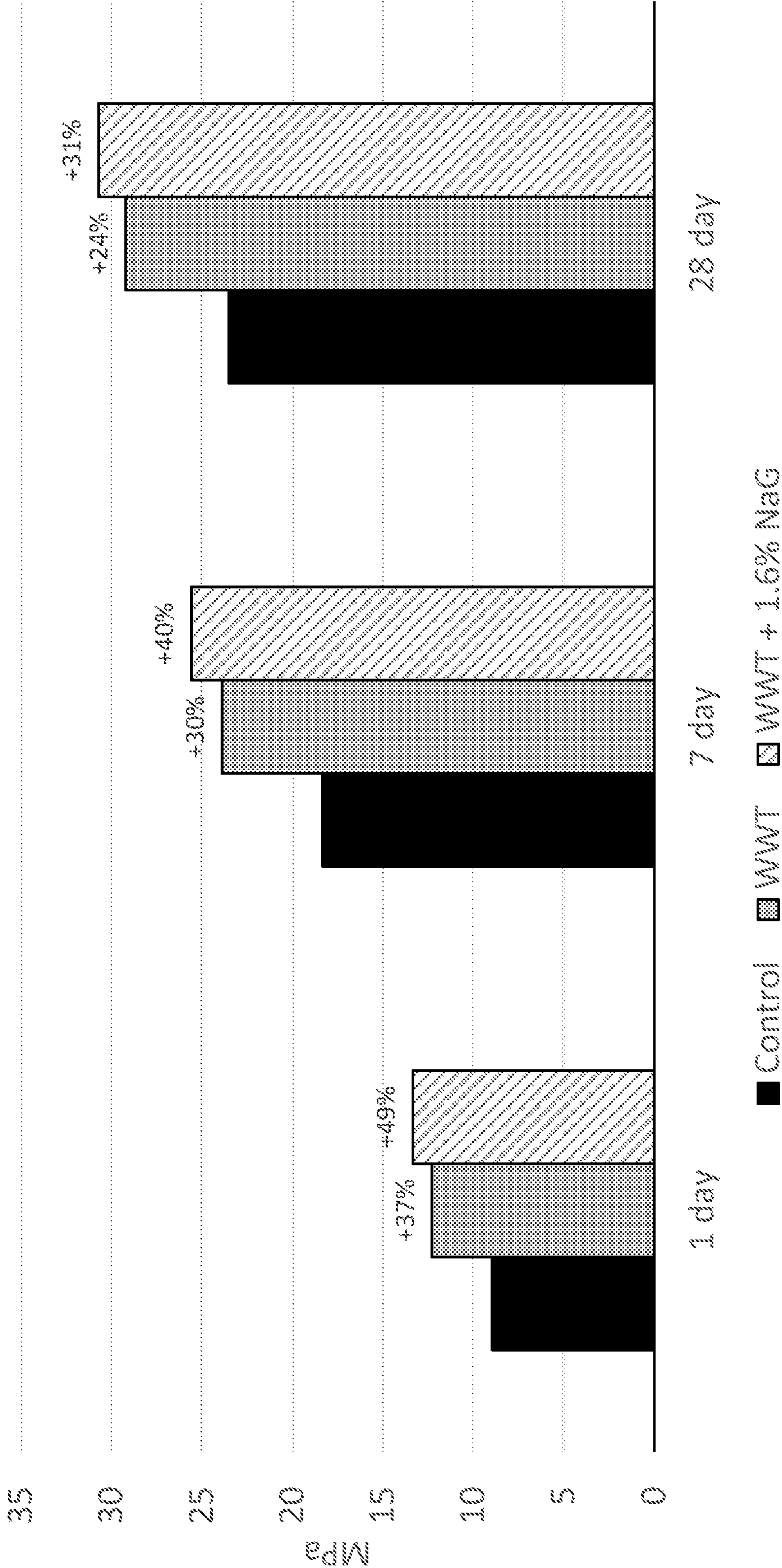


Figure 38

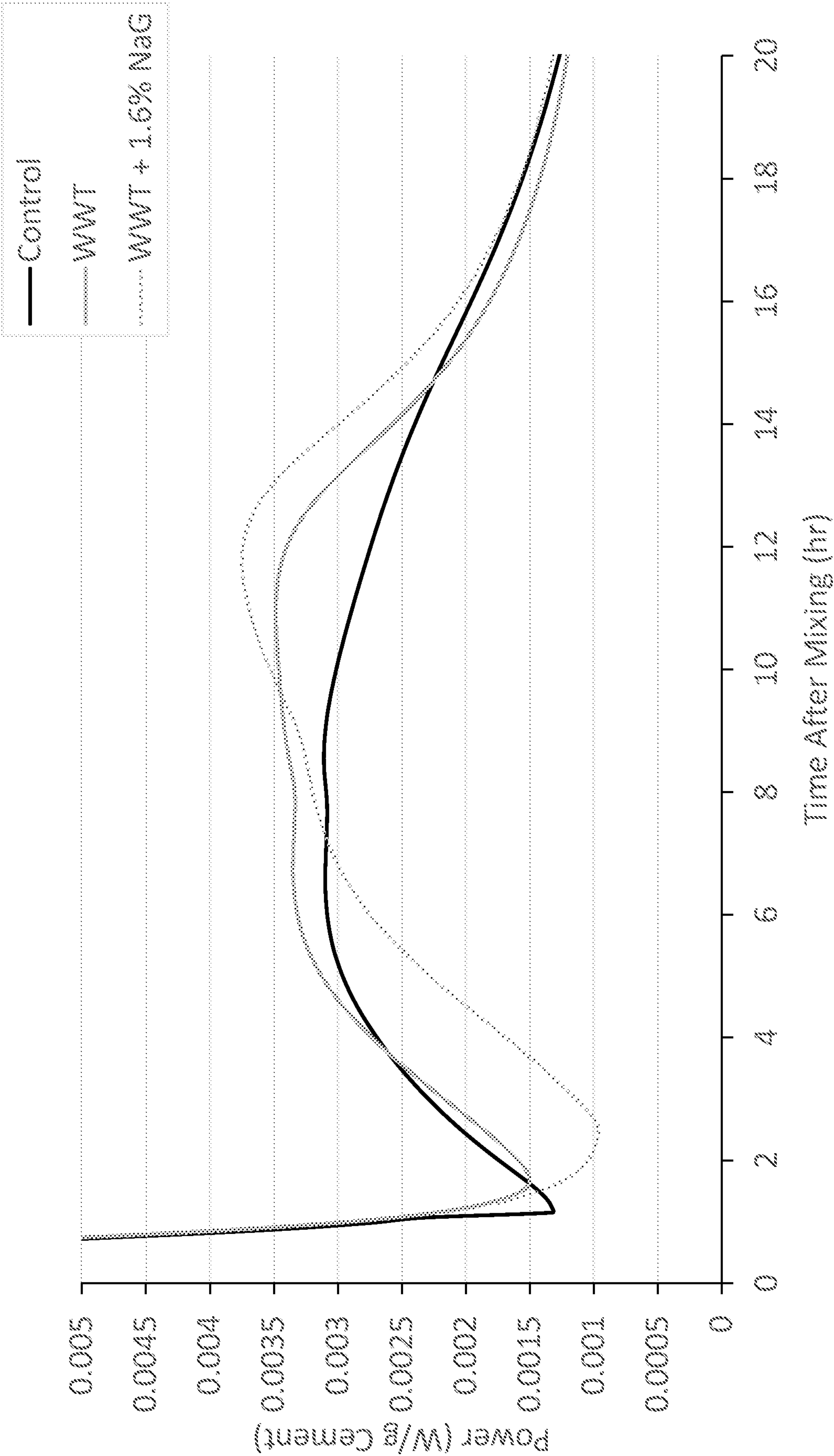


Figure 39

Batch ID	Control	WWT	WWT + NaG
Sand Mass (kg)	19.90	19.90	19.90
Coarse Agg Mass (kg)	27.18	27.18	27.18
Cement Mass (kg)	6.88	6.88	6.88
Limestone Filler Mass (kg)	1.62	1.62	1.62
Target batch water (kg)	5.04	5.04	5.04
Water Mass (kg)	4.65	0.00	0.00
WW mass (kg)	0.00	5.36	5.36
Washwater Solids (kg)	0.00	0.71	0.71
w/c Ratio	0.59	0.55	0.55
Volume (m3)	0.0256	0.0258	0.0258

Figure 40

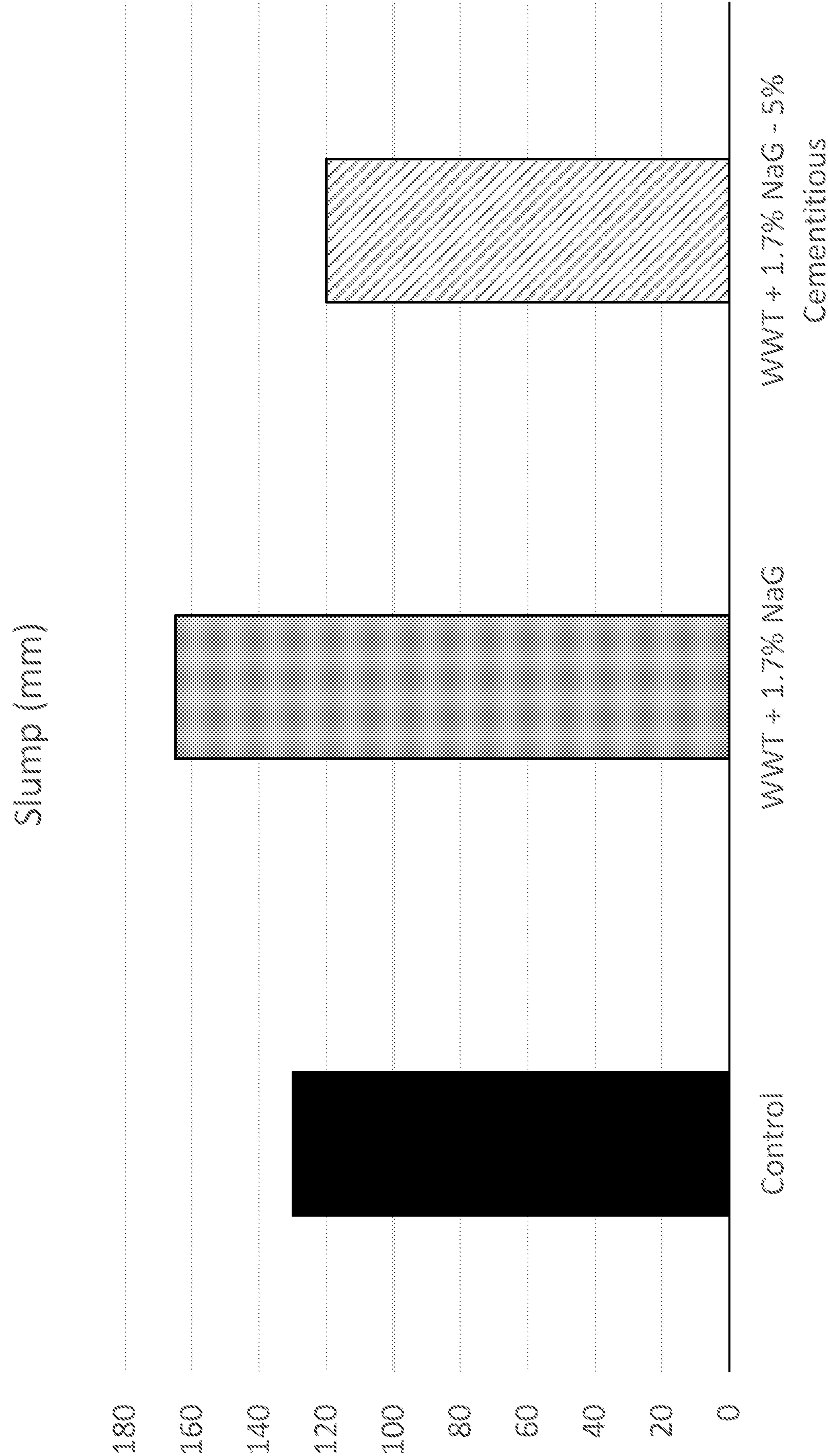


Figure 41

Compressive Strength

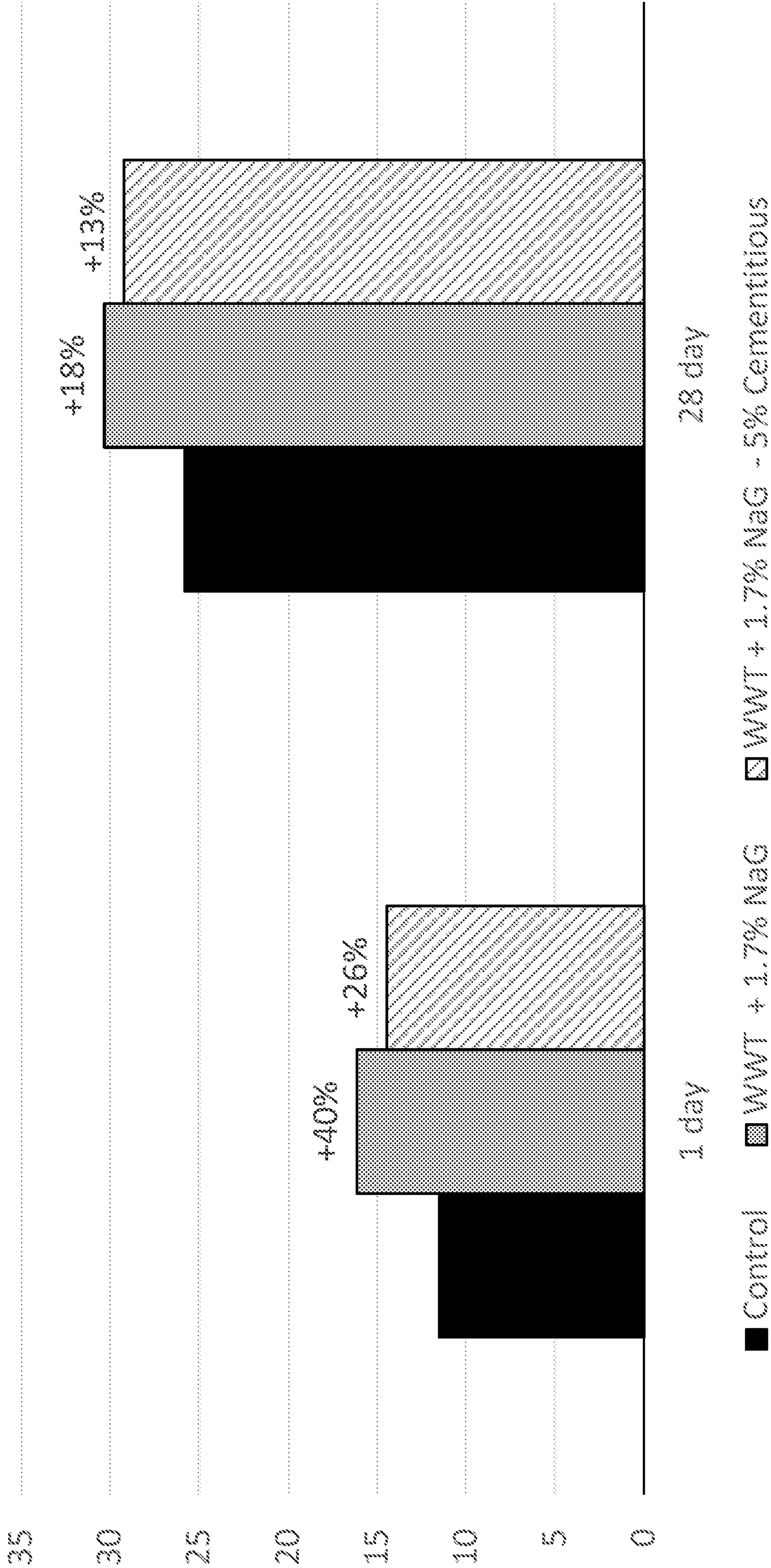


Figure 42

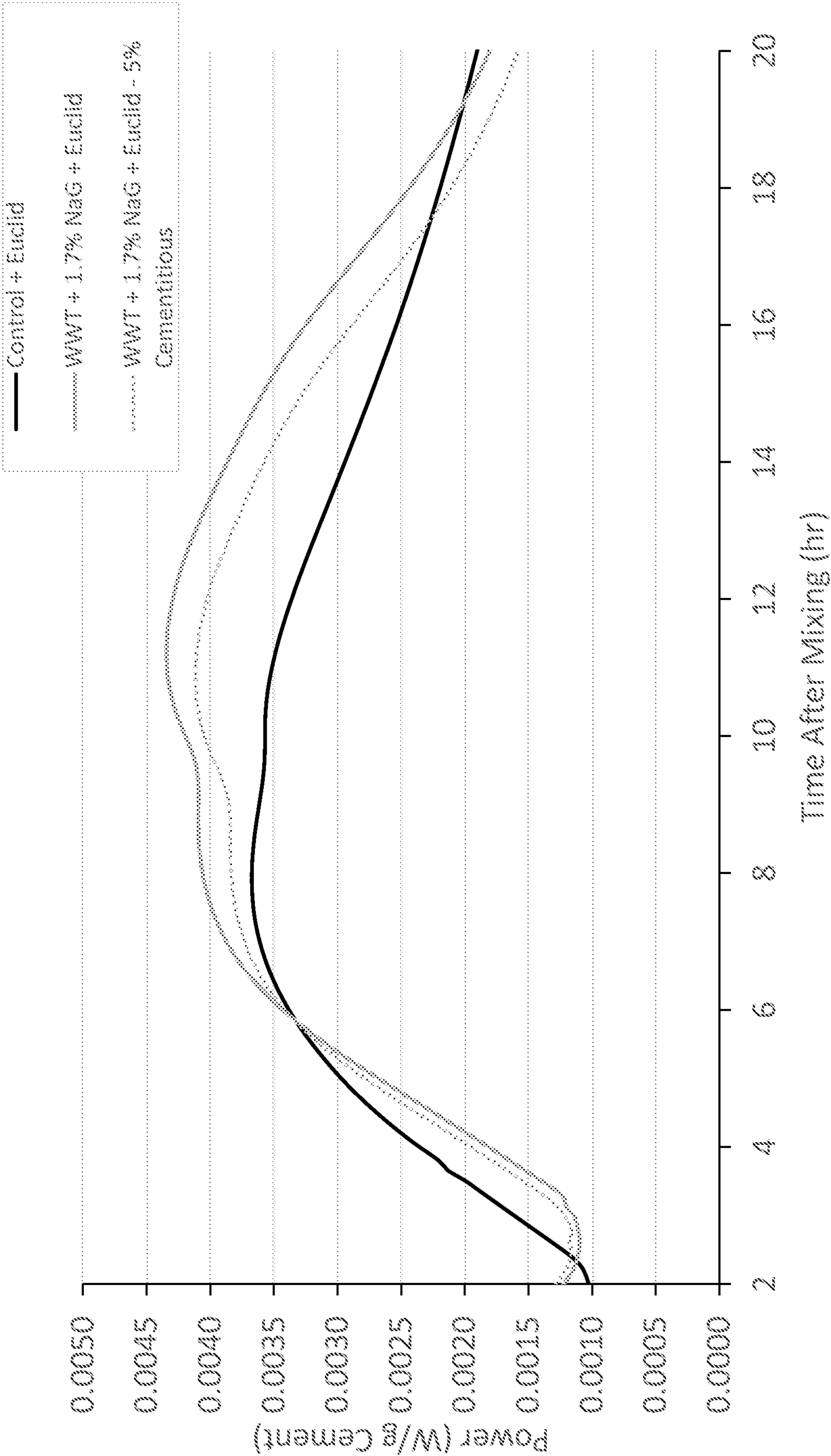


Figure 43

Batch ID	Control	WWT	WWT + NaG
Sand Mass (kg)	22.90	22.90	22.90
Coarse Agg Mass (kg)	25.17	25.17	25.17
Cement Mass (kg)	5.71	5.71	5.42
Limestone Filler Mass (kg)	1.44	1.44	1.37
Target batch water (kg)	3.71	3.71	3.71
Water Mass (kg)	3.61	0.00	0.00
WW mass (kg)	0.00	4.16	4.16
Washwater Solids (kg)	0.00	0.55	0.55
w/c Ratio	0.52	0.48	0.48
Volume (m3)	0.0246	0.0247	0.0247

Figure 44

Slump (mm)

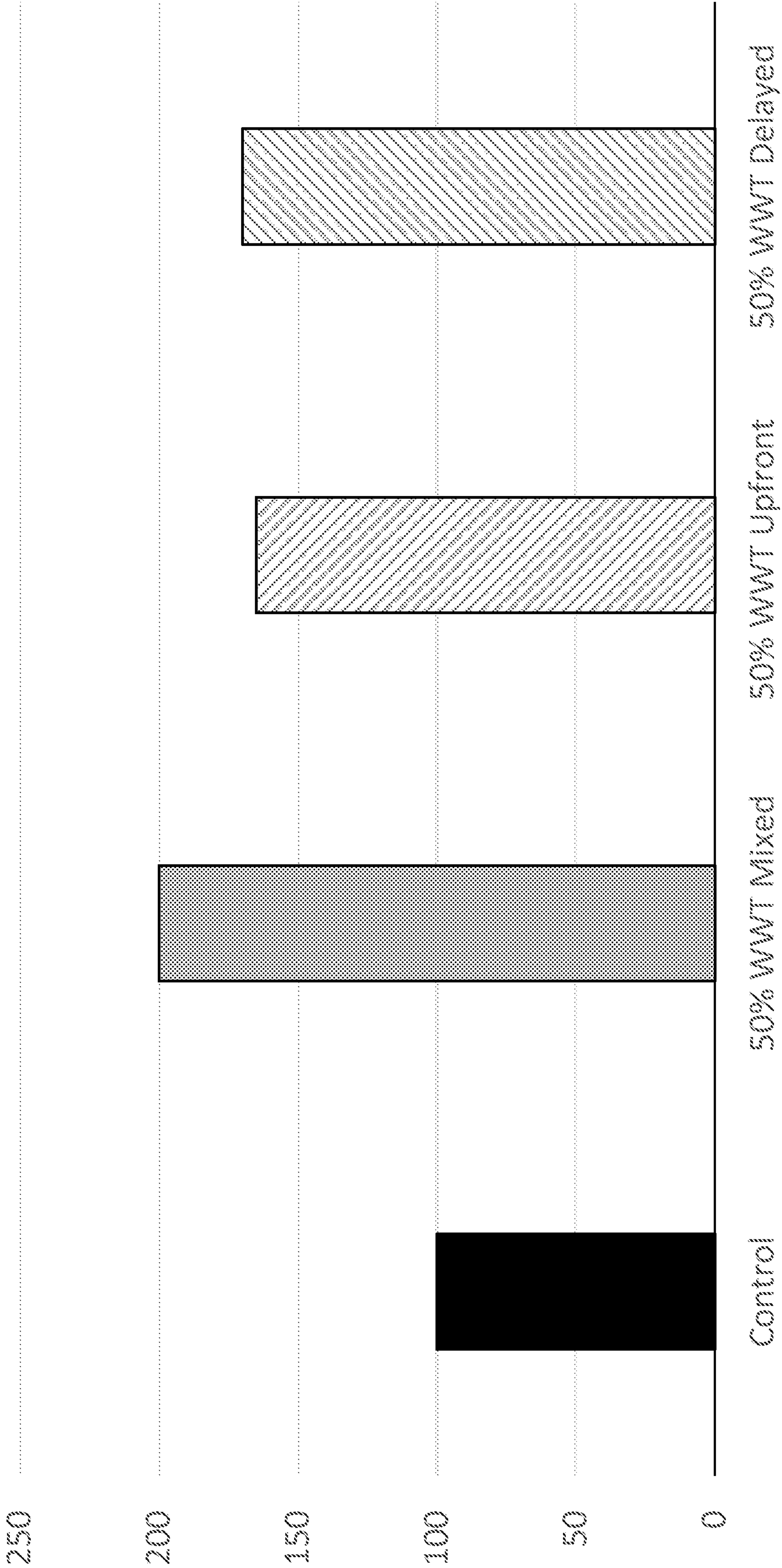


Figure 45

Compressive Strength

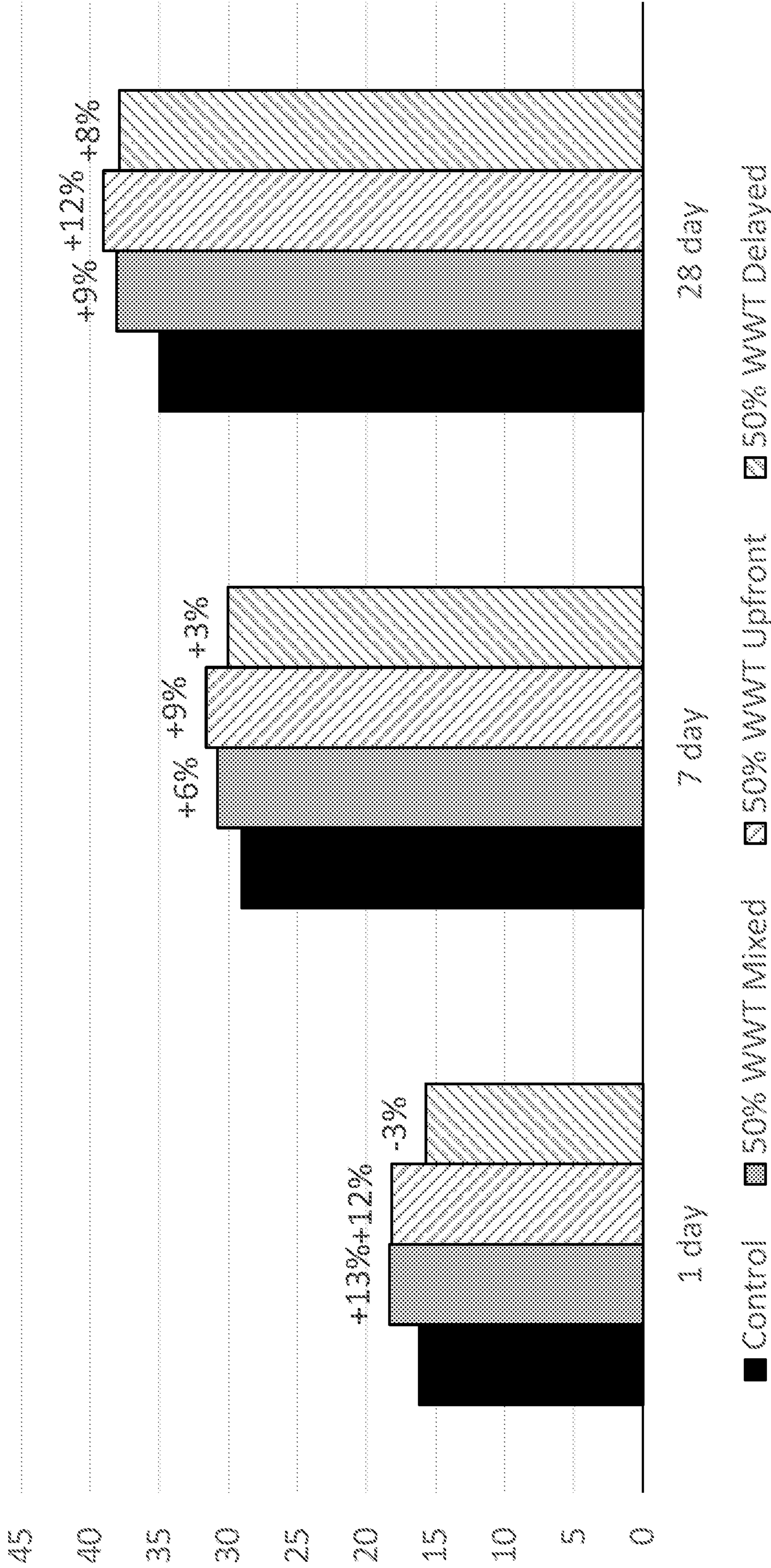


Figure 46

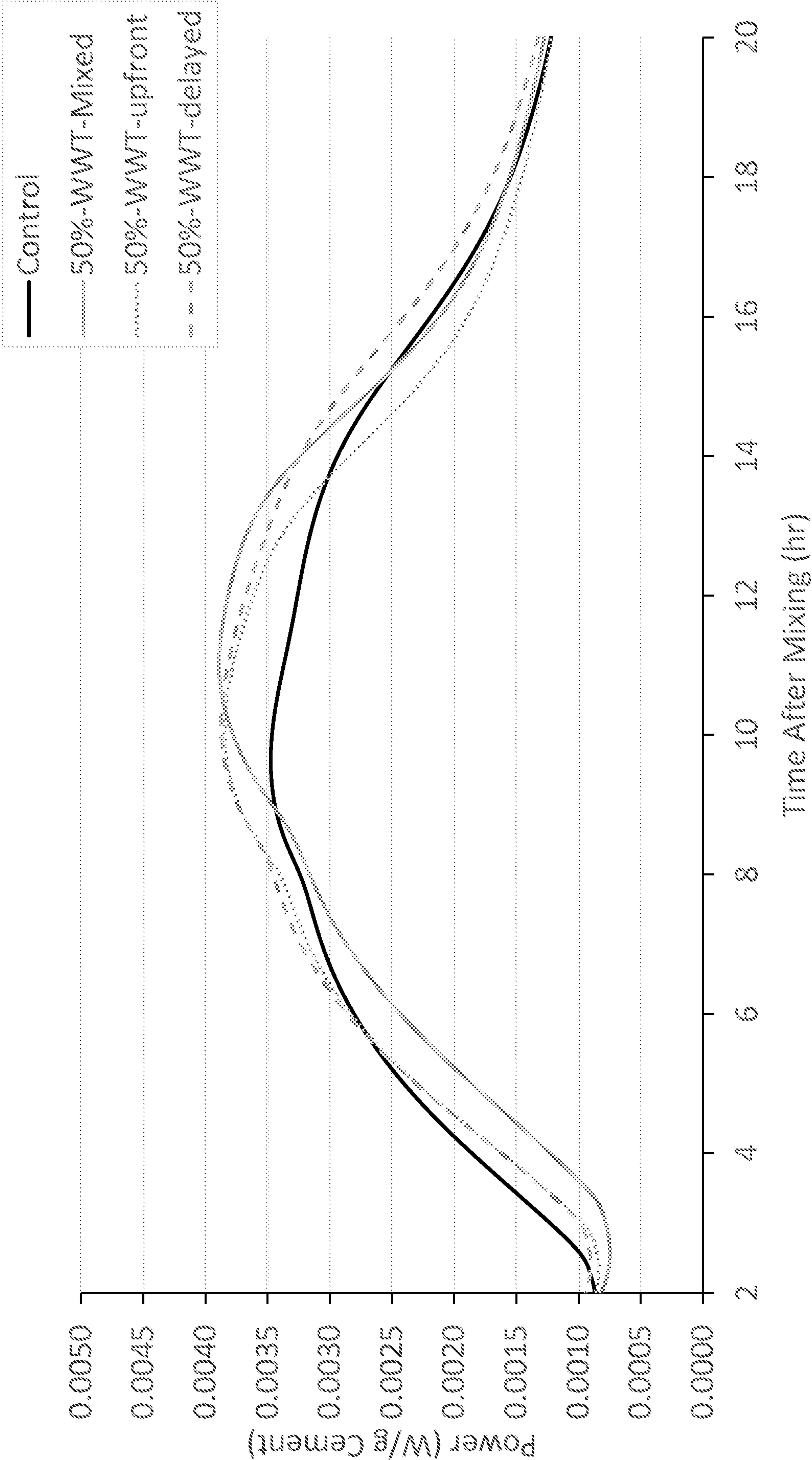


Figure 47

Batch ID	Control	WWT Mixed	WWT Upfront	WWT Delayed
Sand Mass (kg)	22.90	22.90	22.90	22.90
Coarse Agg Mass (kg)	27.18	27.18	27.18	27.18
Cement Mass (kg)	6.88	6.88	6.88	6.88
Limestone Filler Mass (kg)	1.72	1.72	1.72	1.72
Target batch water (kg)	3.87	3.87	3.87	3.87
Water Mass (kg)	3.58	1.79	1.79	1.79
WW mass (kg)	0.00	2.07	2.07	2.07
Washwater Solids (kg)	0.00	0.28	0.28	0.28
w/c Ratio	0.45	0.44	0.44	0.44
Volume (m3)	0.0257	0.0257	0.0257	0.0257

Figure 48

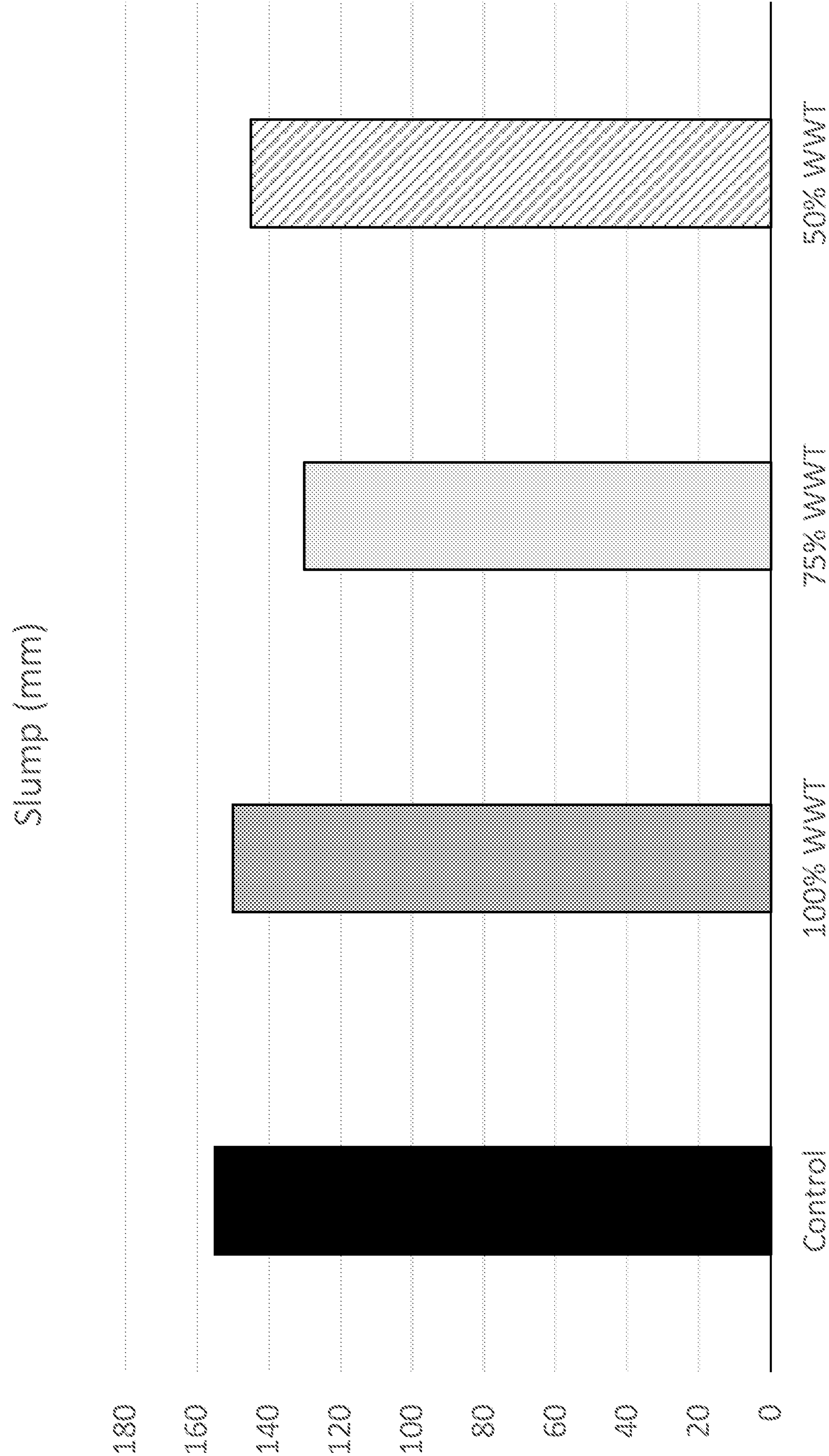


Figure 49

Compressive Strength

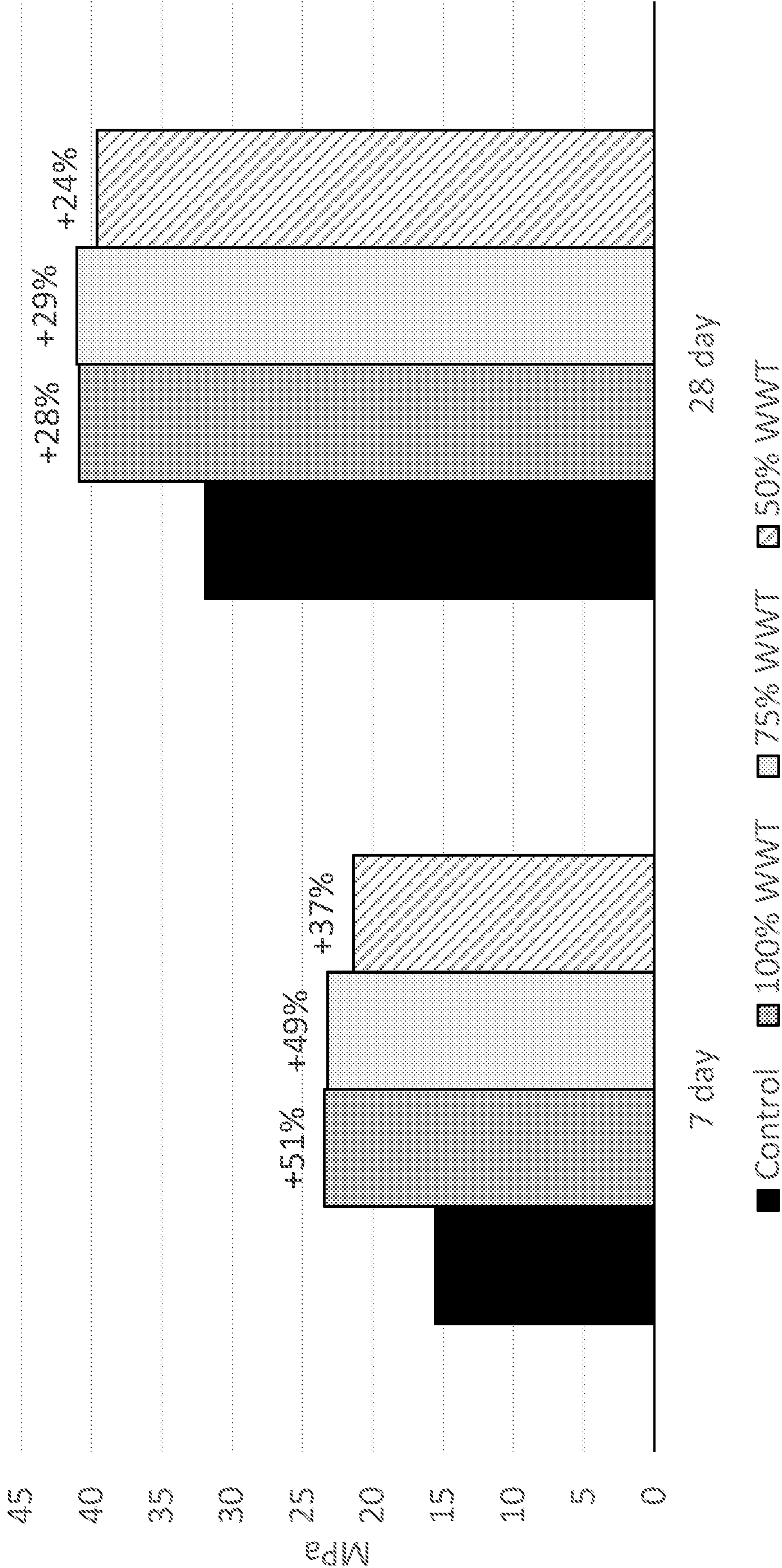


Figure 50

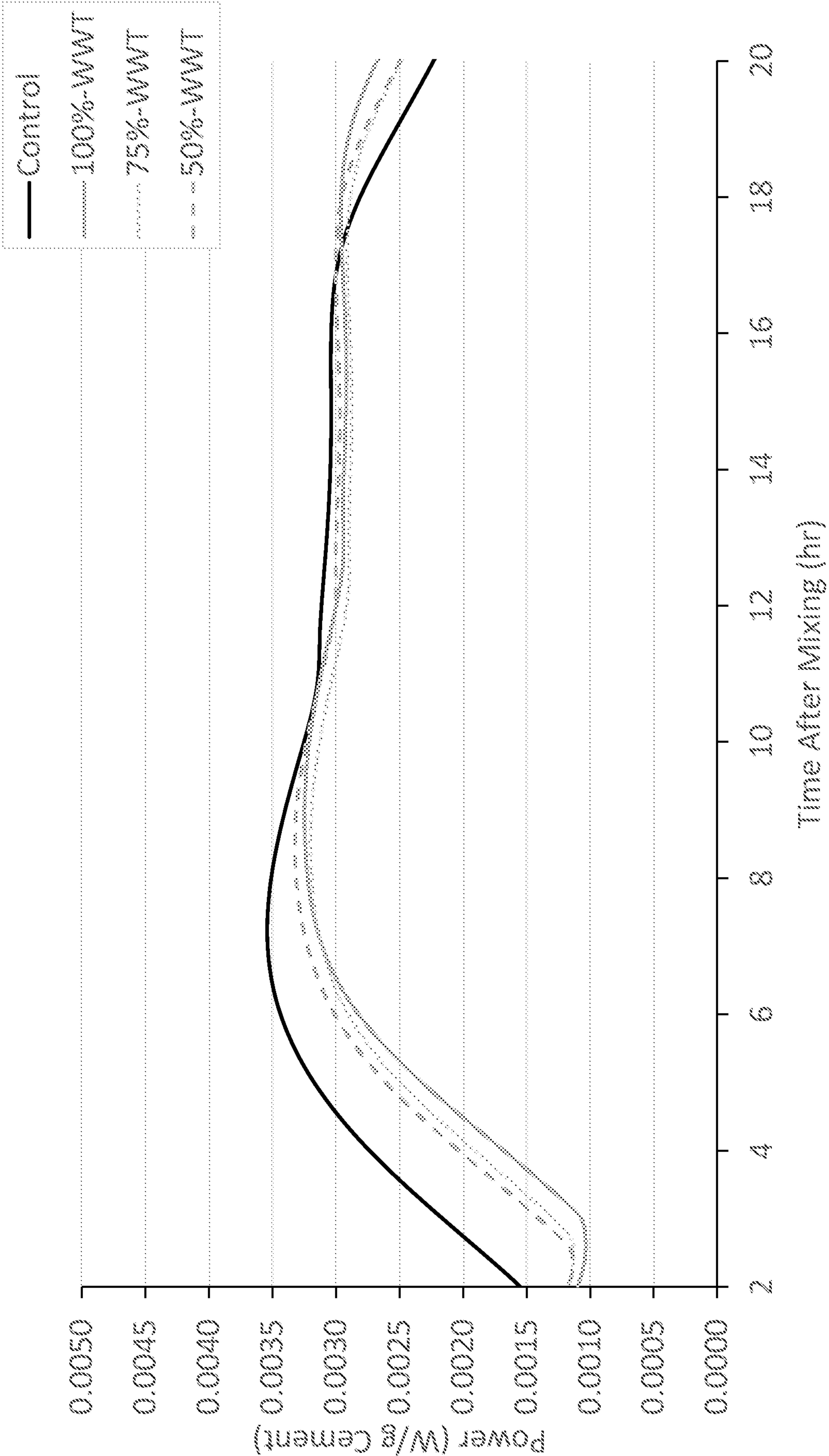


Figure 51

Batch ID	Control	WWT 100%	WWT 75%	WWT 50%
Sand Mass (kg)	20.63	20.63	20.63	20.63
Coarse Agg Mass (kg)	27.00	27.00	27.00	27.00
Cement Mass (kg)	3.91	3.91	3.91	3.91
Fly Ash Mass (kg)	2.25	2.25	2.25	2.25
Slag Mass (kg)	1.65	1.65	1.65	1.65
Target batch water (kg)	4.26	4.26	4.26	4.26
Water Mass (kg)	3.26	0.00	0.82	1.63
WW mass (kg)	0.00	3.50	2.62	1.75
Washwater Solids (kg)	0.00	0.24	0.18	0.12
w/c Ratio	0.55	0.53	0.53	0.54
Volume (m3)	0.0257	0.0258	0.0258	0.0257

Figure 52

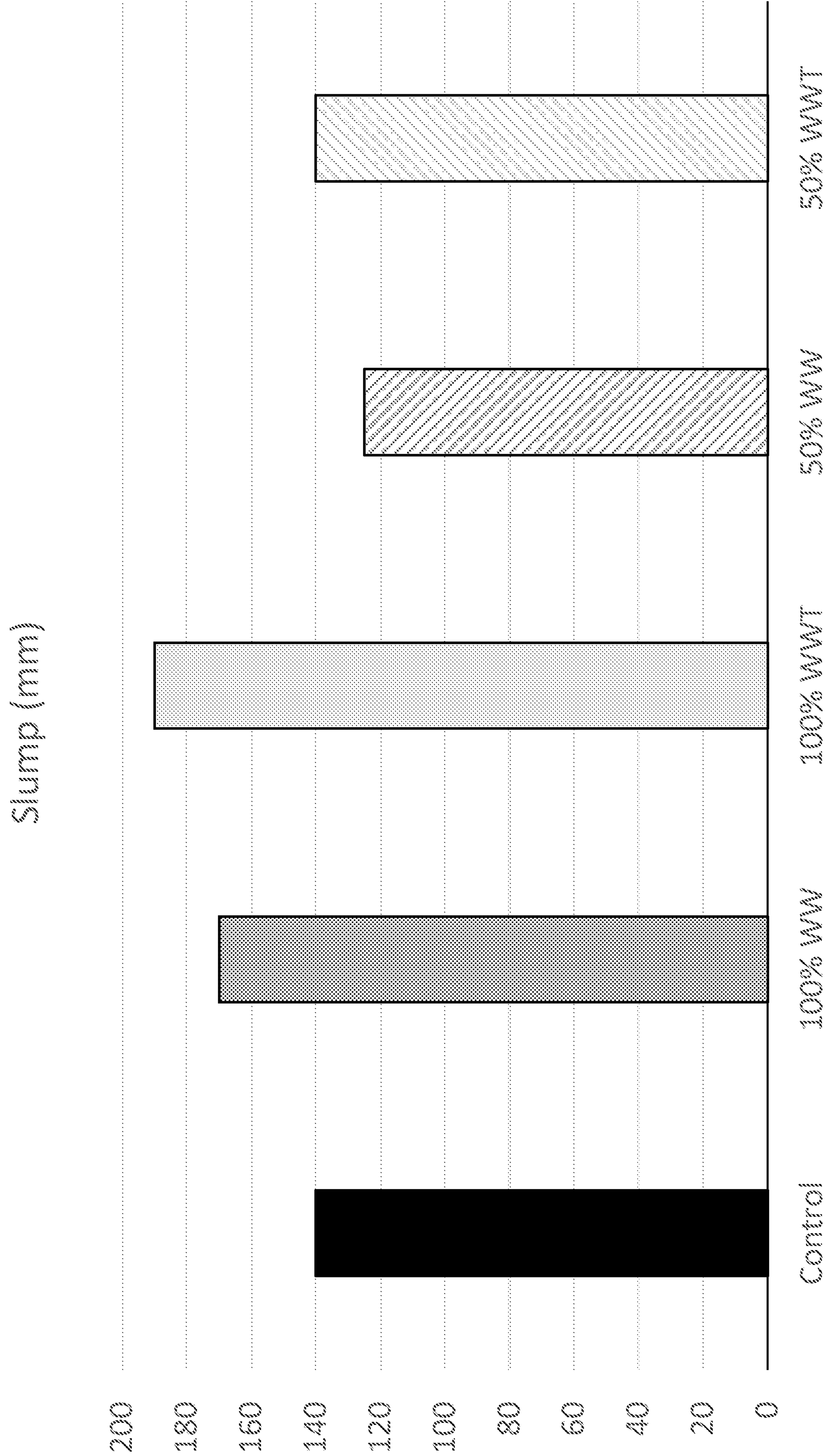


Figure 53

Compressive Strength

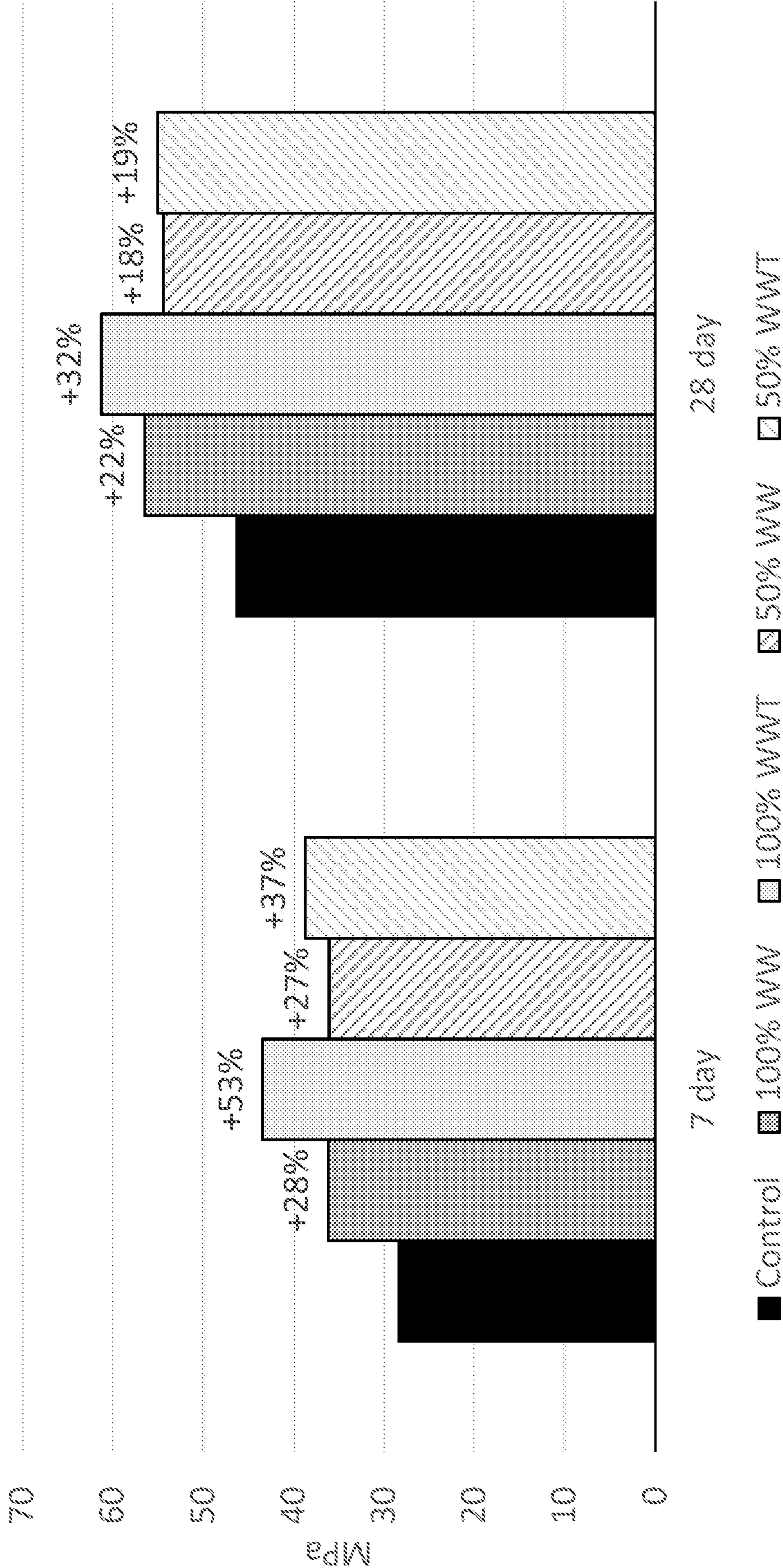


Figure 54

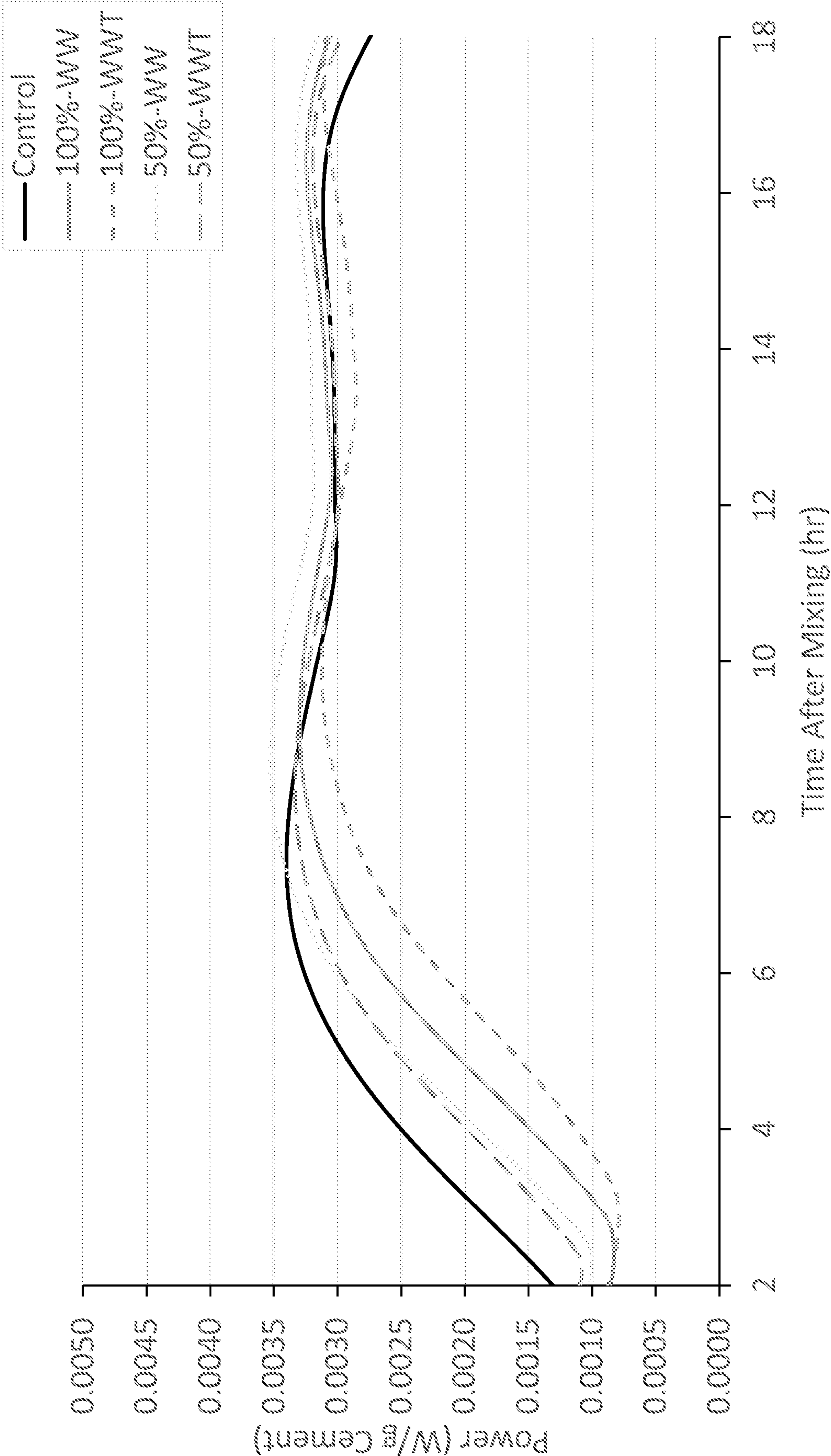


Figure 55

Batch ID	Control	WW 100%	WWT 100%	WW 50%	WWT 50%
Sand Mass (kg)	19.35	19.35	19.35	19.35	19.35
Coarse Agg Mass (kg)	26.00	26.00	26.00	26.00	26.00
Cement Mass (kg)	4.50	4.50	4.50	4.50	4.50
Fly Ash Mass (kg)	1.86	1.86	1.86	1.86	1.86
Slag Mass (kg)	2.64	2.64	2.64	2.64	2.64
Target batch water (kg)	4.05	4.05	4.05	4.05	4.05
Water Mass (kg)	3.10	0.00	0.00	1.55	1.55
WW mass (kg)	0.00	3.33	3.33	1.67	1.67
Washwater Solids (kg)	0.00	0.23	0.23	0.12	0.12
w/c Ratio	0.45	0.44	0.44	0.44	0.44
Volume (m3)	0.0256	0.0257	0.0257	0.0256	0.0256

Figure 56

%CO₂ bwc

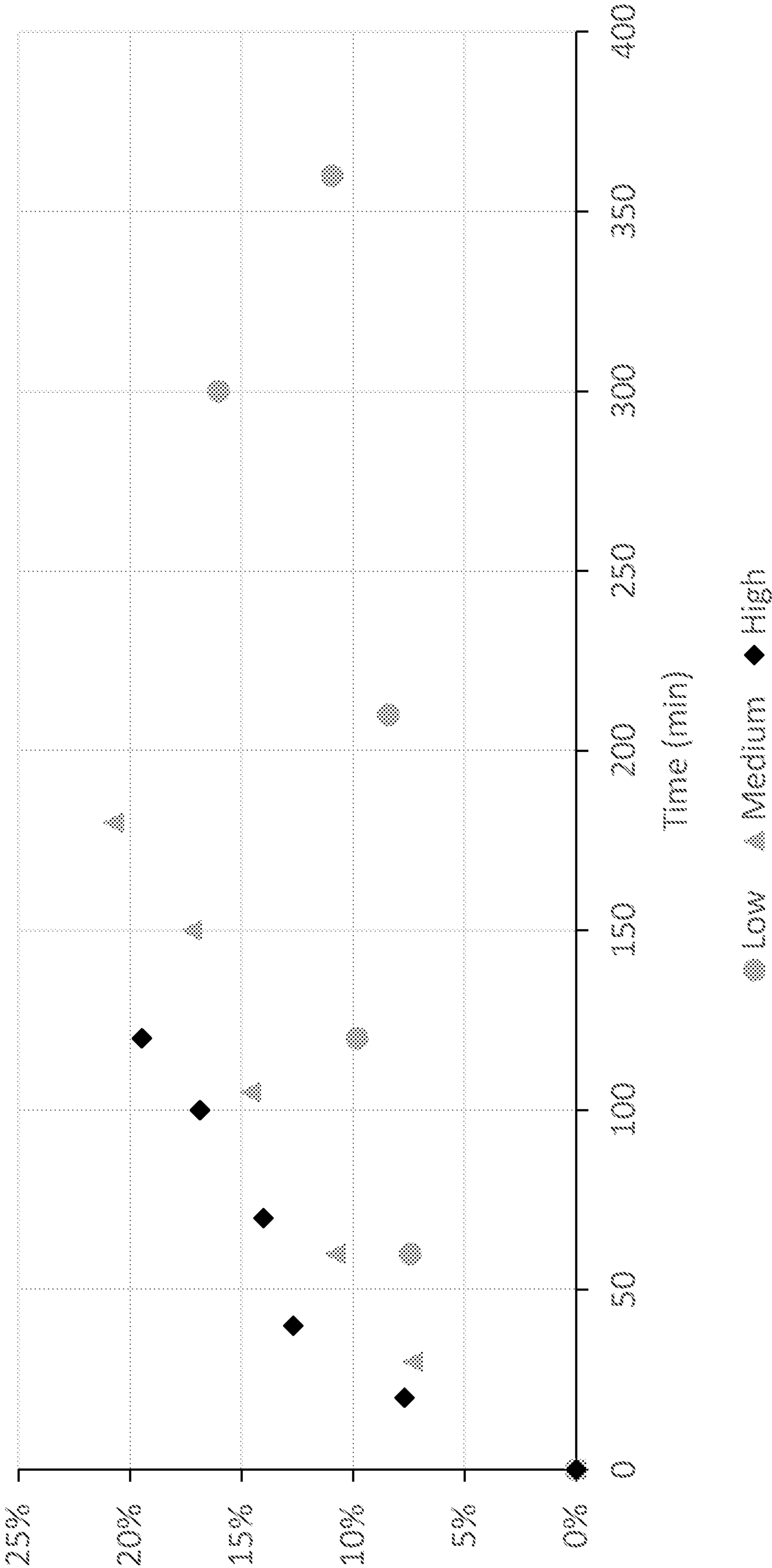


Figure 57

	7 day compressive strength relative to a control					
	0	7-8	10-13	14-15	16-17	19-21
Flow						
Low	110%	99%	98%	97%	98%	80%
Med	99%	67%	107%	109%	106%	107%
High	108%	97%	96%	95%	88%	97%

Figure 58

	Mortar slump relative to a control					
	0	7-8	10-13	14-15	16-17	19-21
Flow						
Low	150%	40%	0%	0%	0%	0%
Med	170%	130%	64%	10%	0%	0%
High	164%	100%	35%	0%	0%	0%

Figure 59

	Mortar calorimeter setting time relative to a control					
	0	7-8	10-13	14-15	16-17	19-21
Flow						
Low	129%	98%	53%	29%	51%	56%
Med	129%	119%	111%	79%	89%	89%
High	153%	140%	103%	67%	62%	70%

Figure 60

	Mortar calorimeter peak energy output relative to a control					
	0	7-8	10-13	14-15	16-17	19-21
Flow						
Low	99%	103%	93%	95%	95%	89%
Med	97%	103%	97%	94%	93%	90%
High	97%	101%	108%	101%	92%	97%

Figure 61

	Washwater temperature (°C)					
	0	7-8	10-13	14-15	16-17	19-21
Flow						
Low	22.1	30.7	37.8	41.5	40	38.8
Med	21.8	28.8	34.8	40	41.7	41.6
High	23	30.9	33.4	43.7	47.5	48.4

Figure 62

	Washwater pH					
	0	7-8	10-13	14-15	16-17	19-21
Flow						
Low	12.7	11.5	12.1	11.6	10.6	9.9
Med	12.8	11.7	11.7	10.9	9.4	7.8
High	12.8	11.2	11.2	10.8	9.5	8.2

Figure 63

%CO₂ uptake vs time (min)

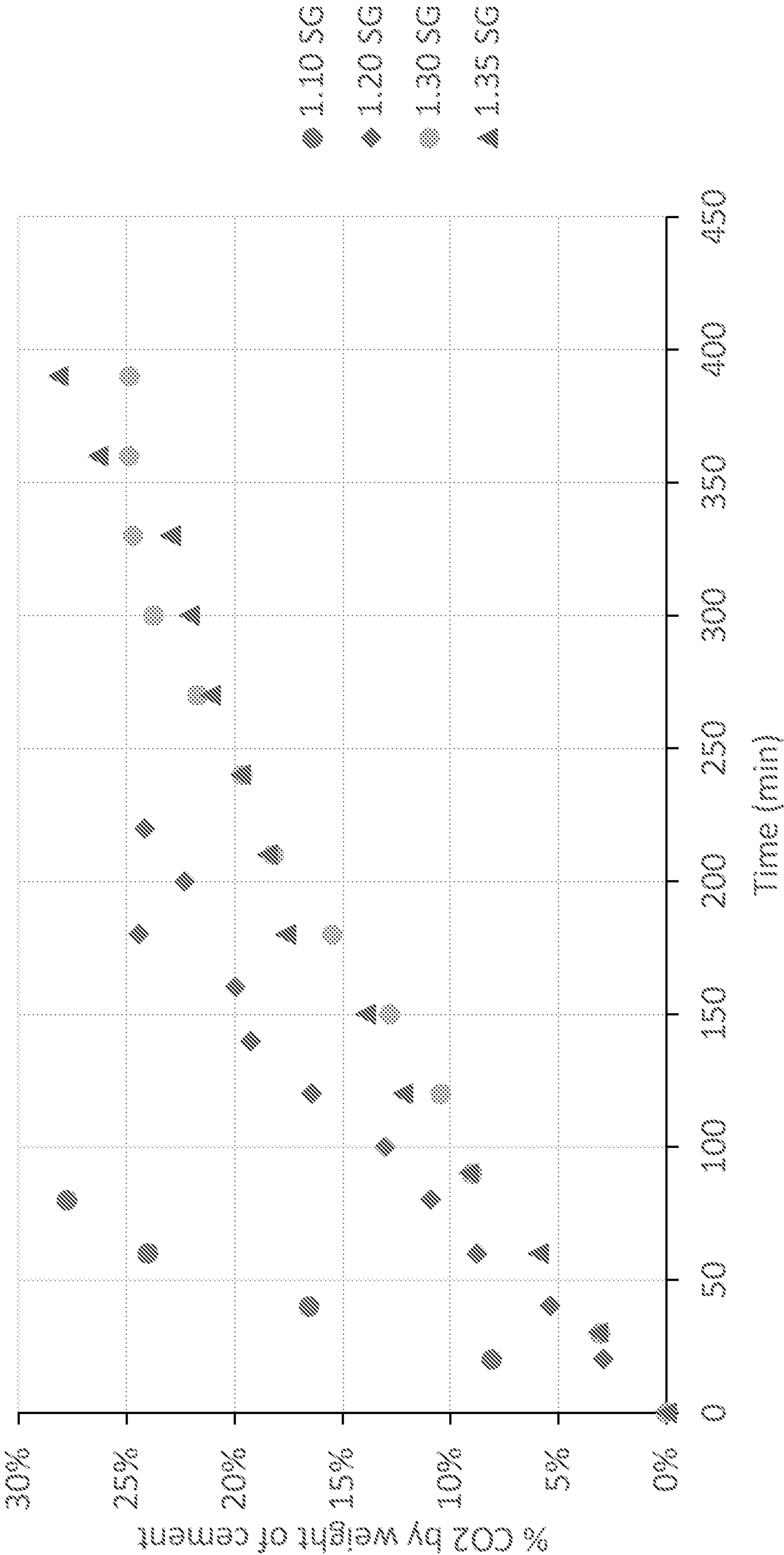
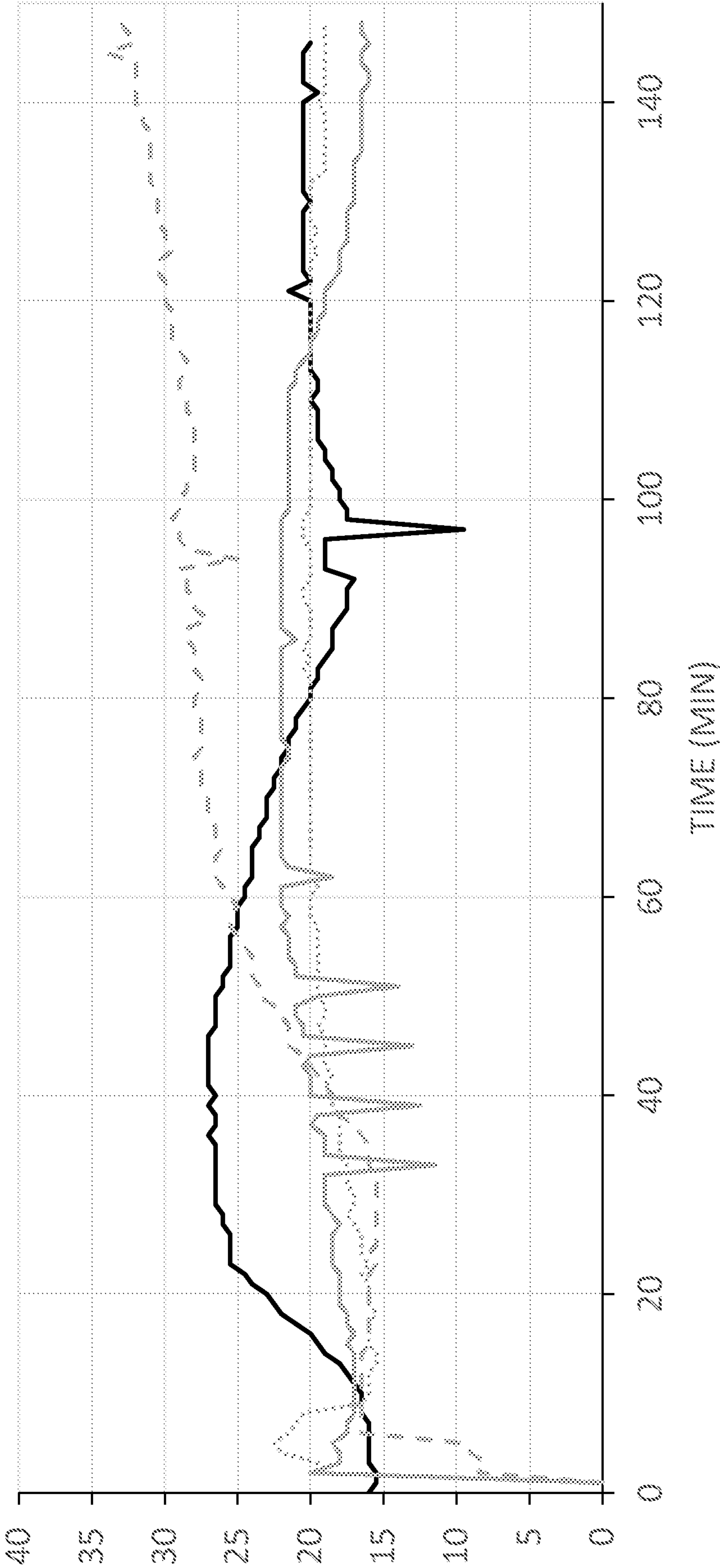


Figure 64

TEMPERATURE (°C)



— 1.10 SG 1.20 SG - - - 1.35 SG

Figure 65

Compressive Strength

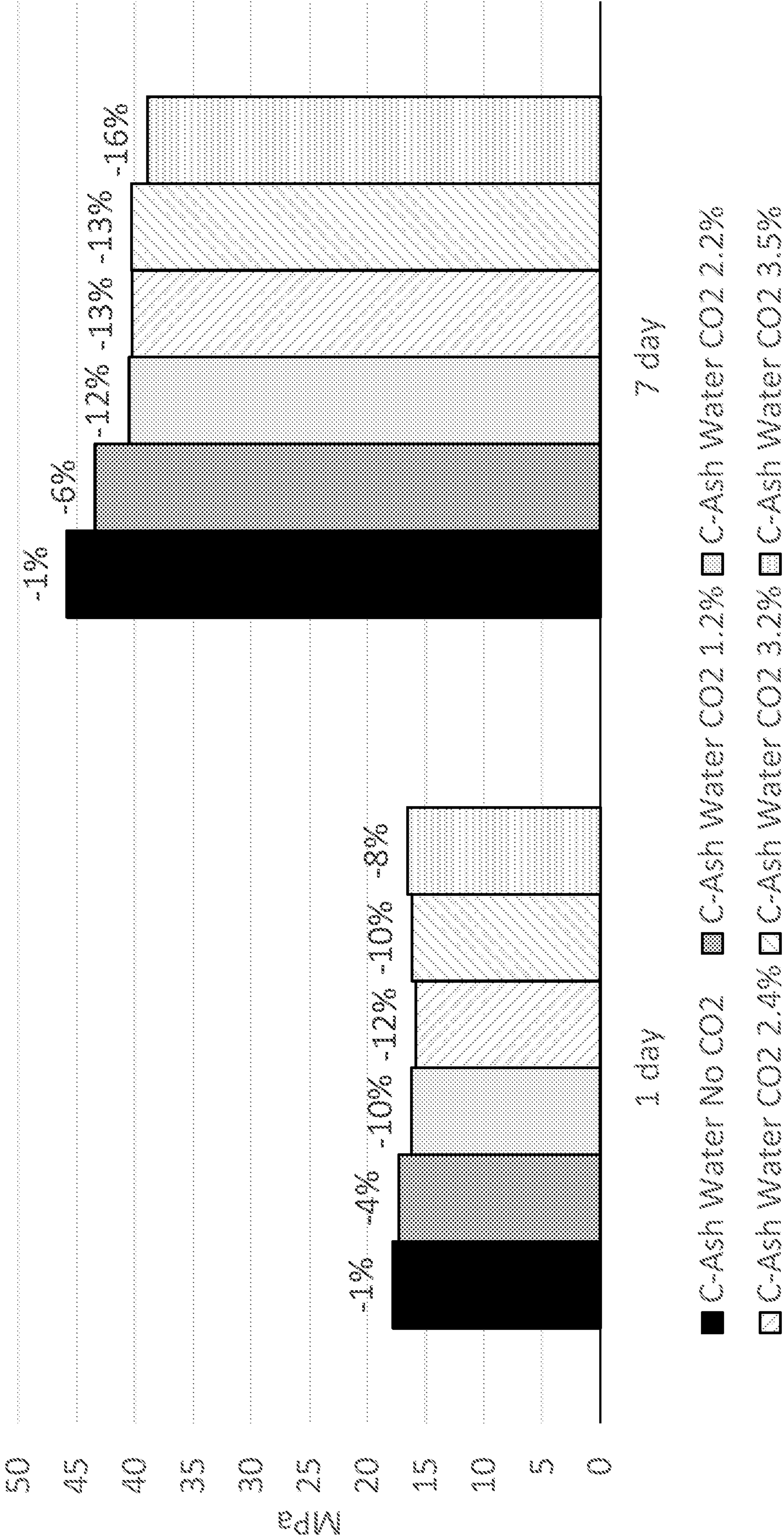


Figure 66

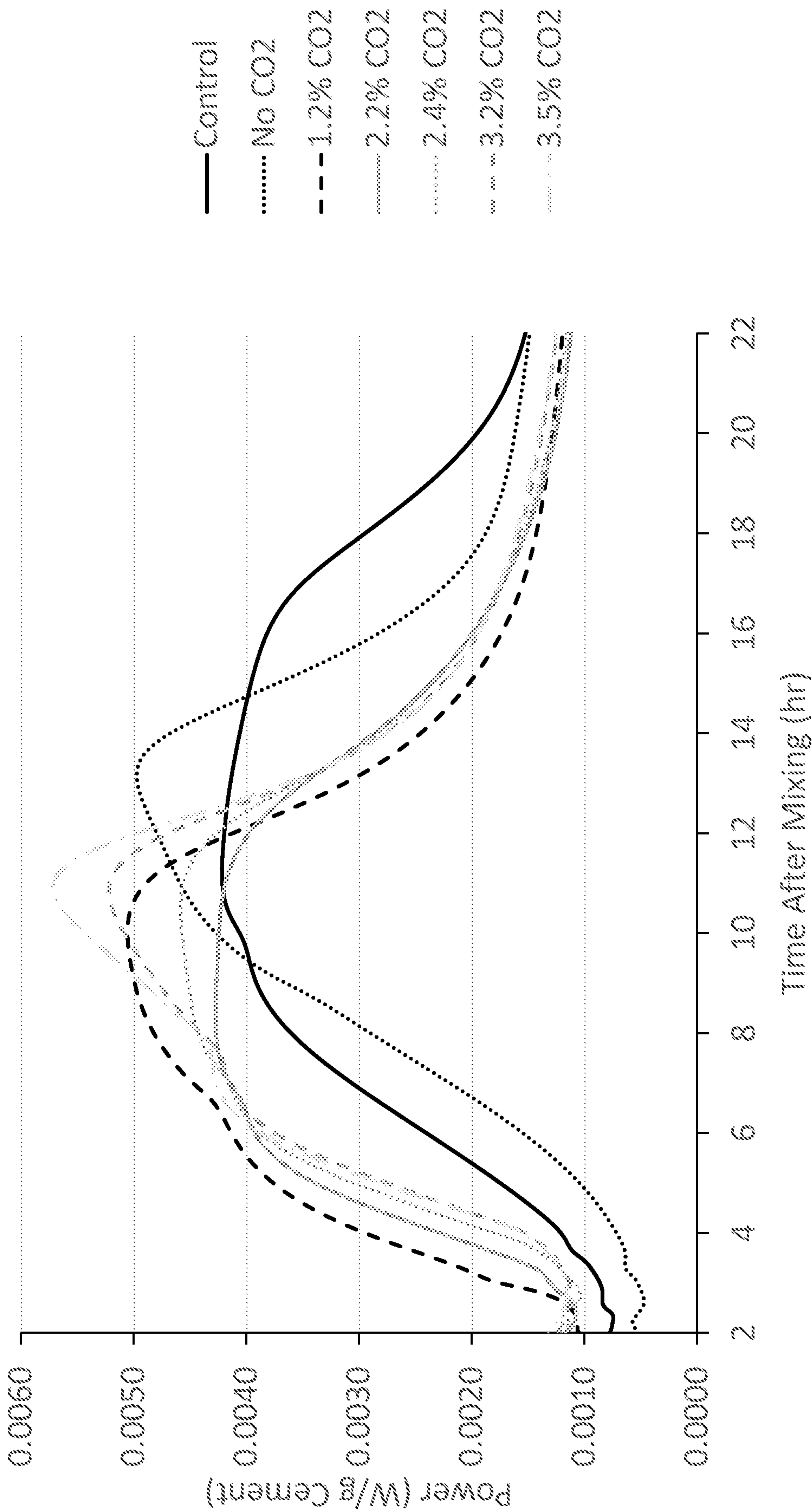


Figure 67

Batch ID	Control	No CO2	1.2% CO2	2.2% CO2	2.4% CO2	3.2% CO2	3.5% CO2
Sand Mass (g)	1350	1350	1350	1350	1350	1350	1350
Cement Mass (g)	345	345	345	345	345	345	345
Class C Fly Ash Mass (g)	146	0	0	0	0	0	0
Water Mass (g)	245.5	0	0	0	0	0	0
WW Mass (g)	0	390	390	390	390	390	390
WW Solids Mass (g)	0	146	146	146	146	146	146
w/c Ratio	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Figure 68

Slump (mm)

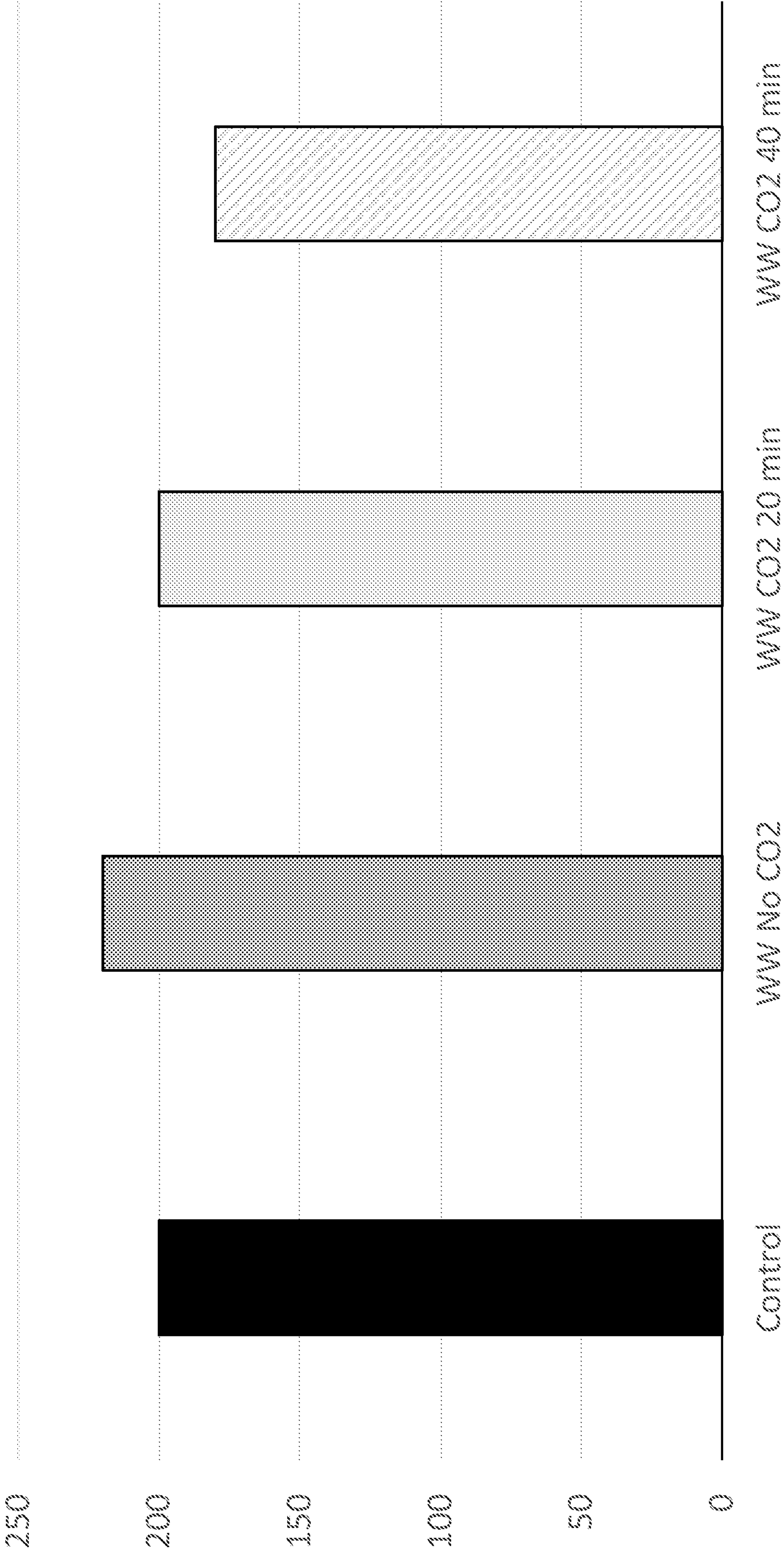


Figure 69

Compressive Strength

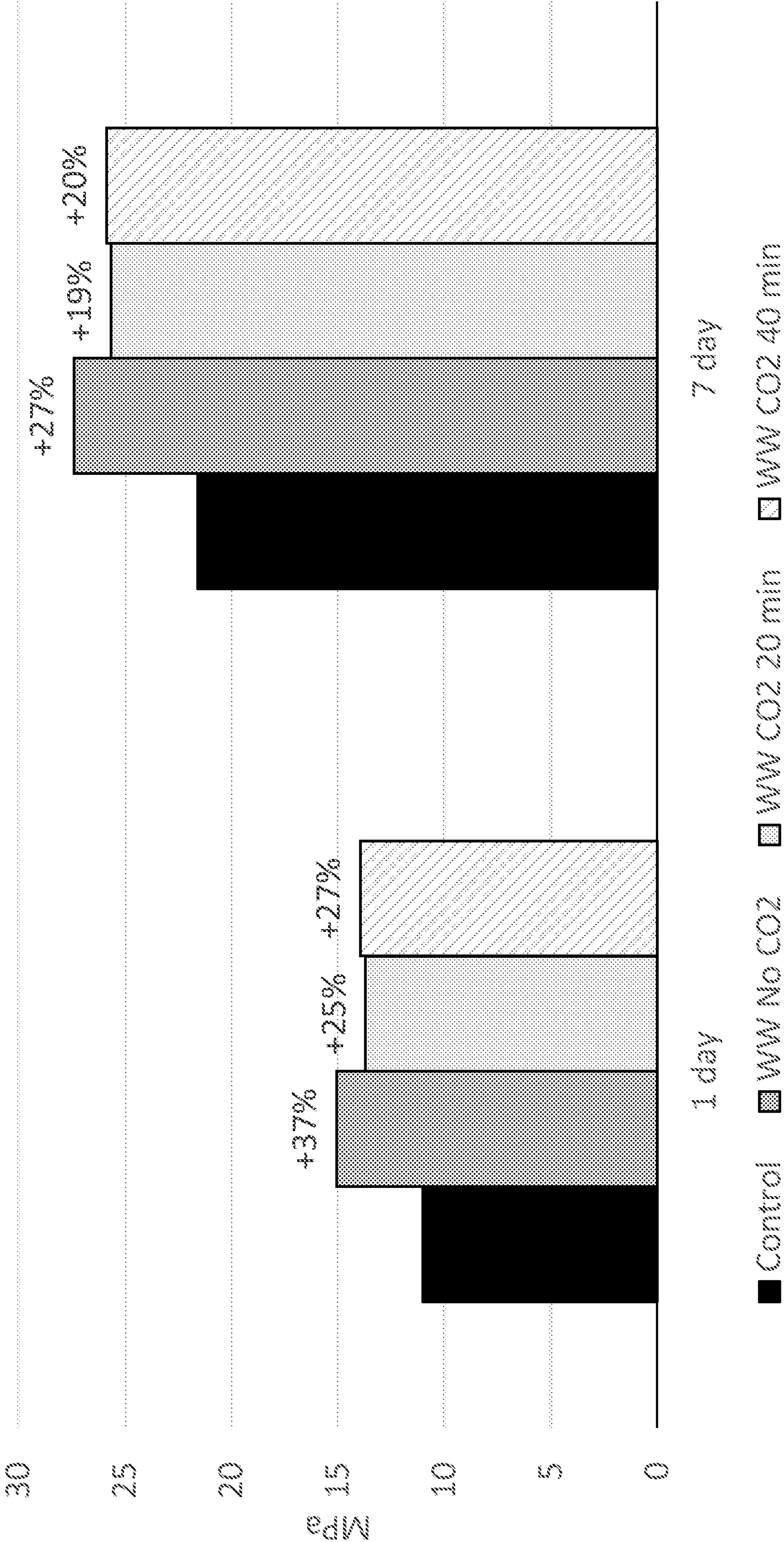


Figure 70

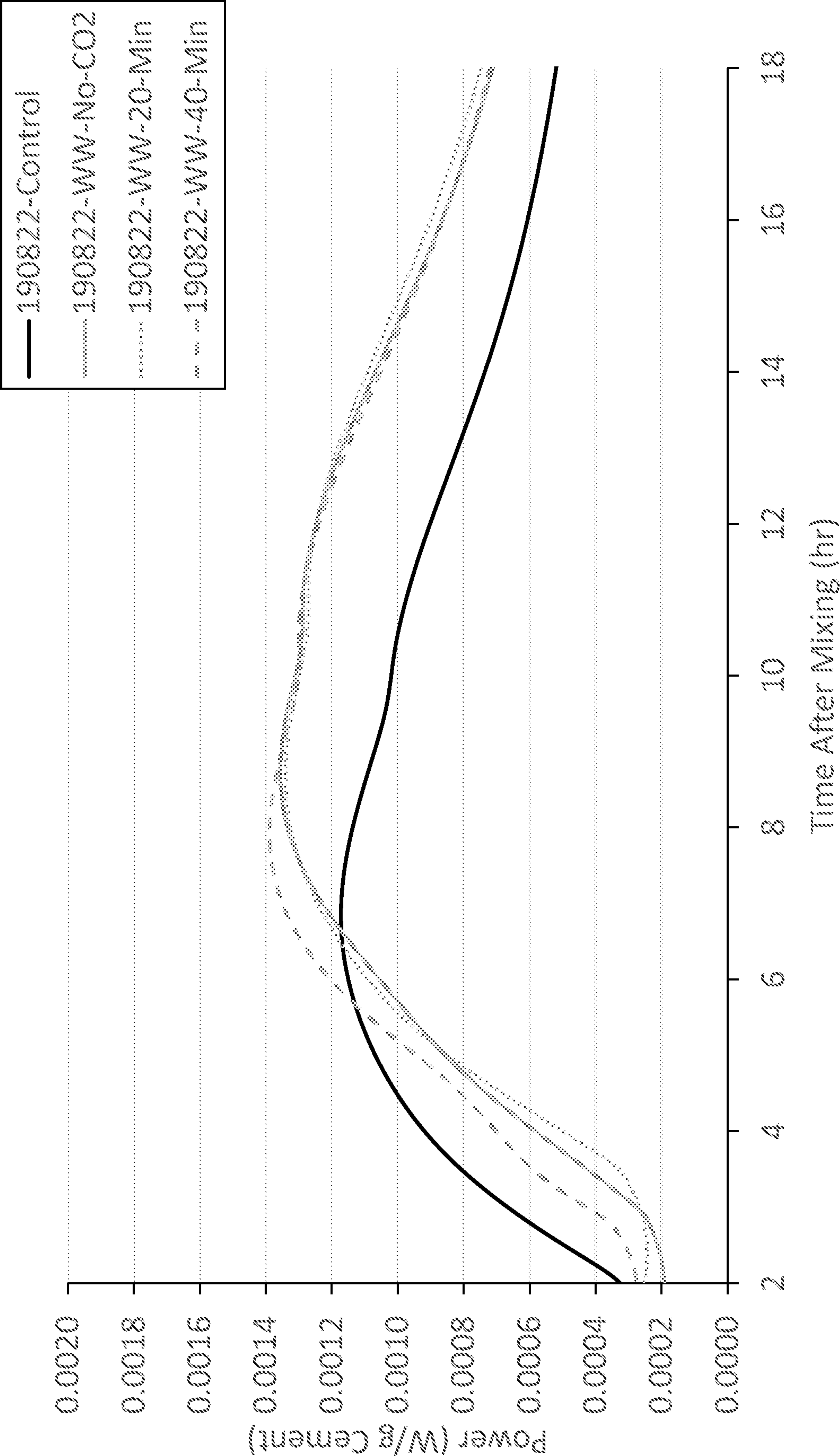


Figure 71

Batch ID	Control	No CO2	20 min CO2	40 min CO2
Sand Mass (kg)	16.50	16.50	16.50	16.50
Coarse Aggregate Mass (kg)	23.85	23.85	23.85	23.85
Cement Mass (kg)	6.82	6.82	6.82	6.82
Water Mass (kg)	4.09	0	0	0
WW Mass (kg)	0	4.72	4.72	4.72
WW Solids Mass (kg)	0	0.63	0.63	0.63
w/c Ratio	0.63	0.57	0.57	0.57
Volume (m3)	0.0218	0.0218	0.0218	0.0218

Figure 72

Slump (mm)

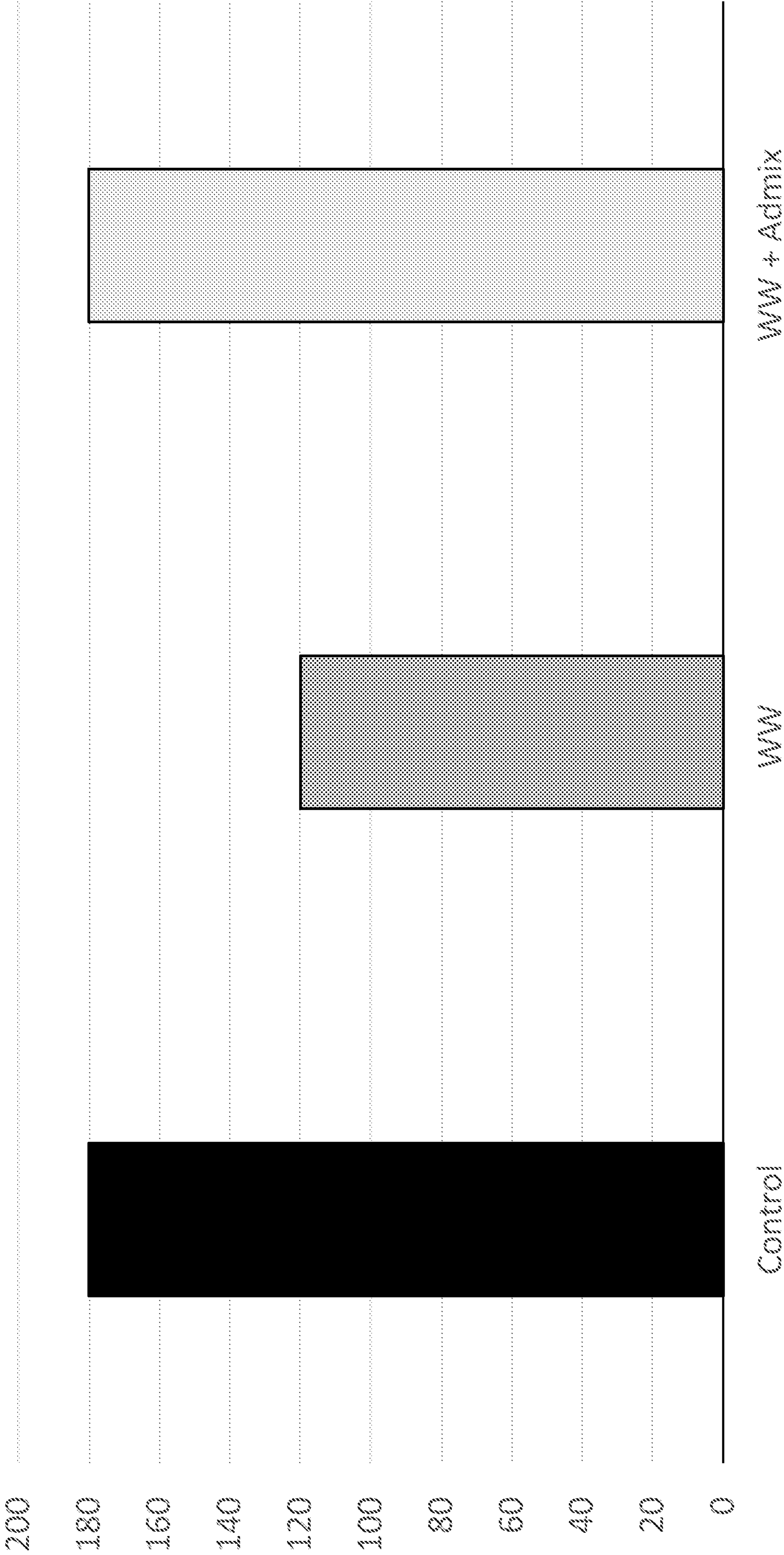


Figure 73

Air Entrained

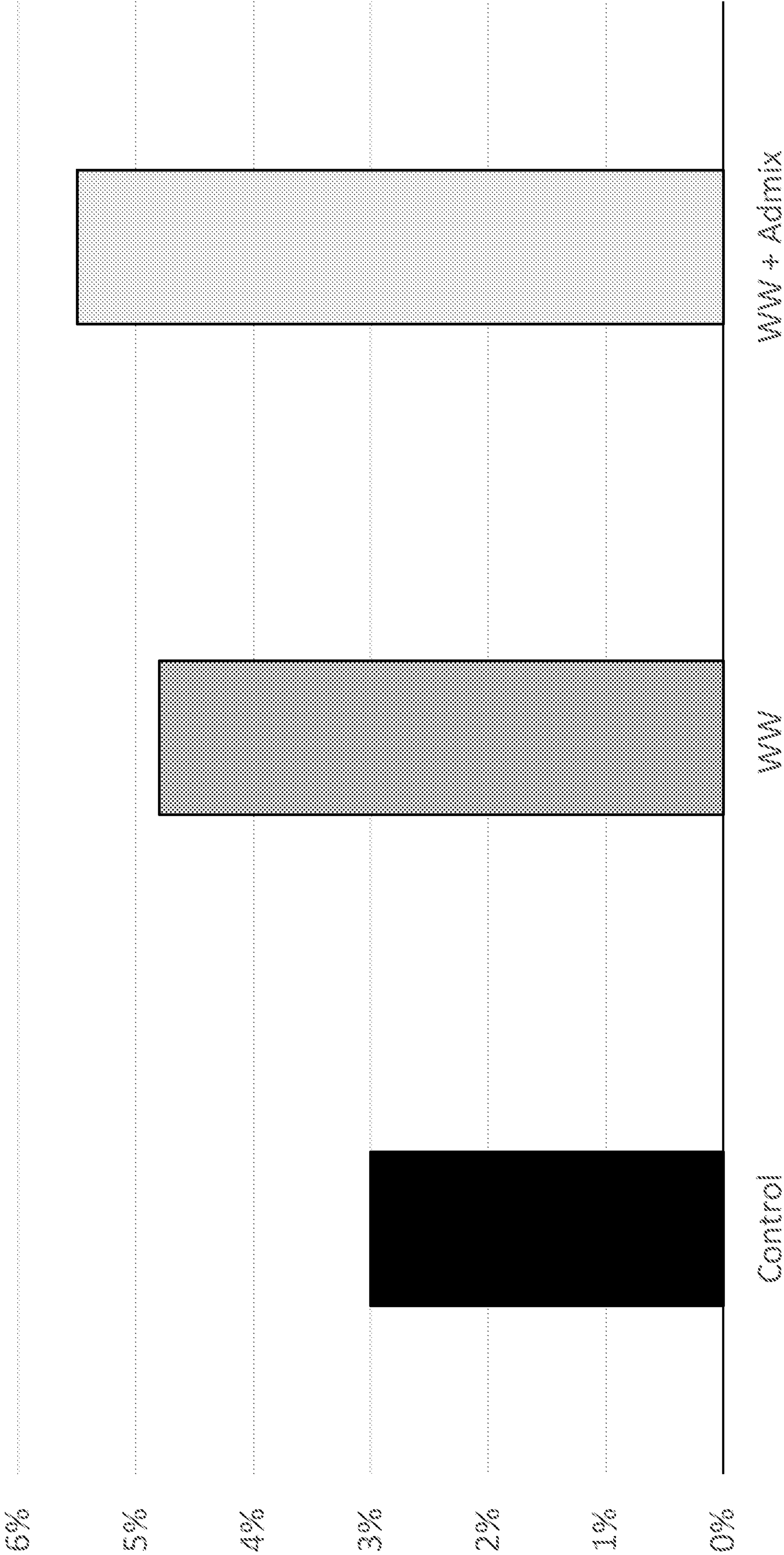


Figure 74
Compressive Strength

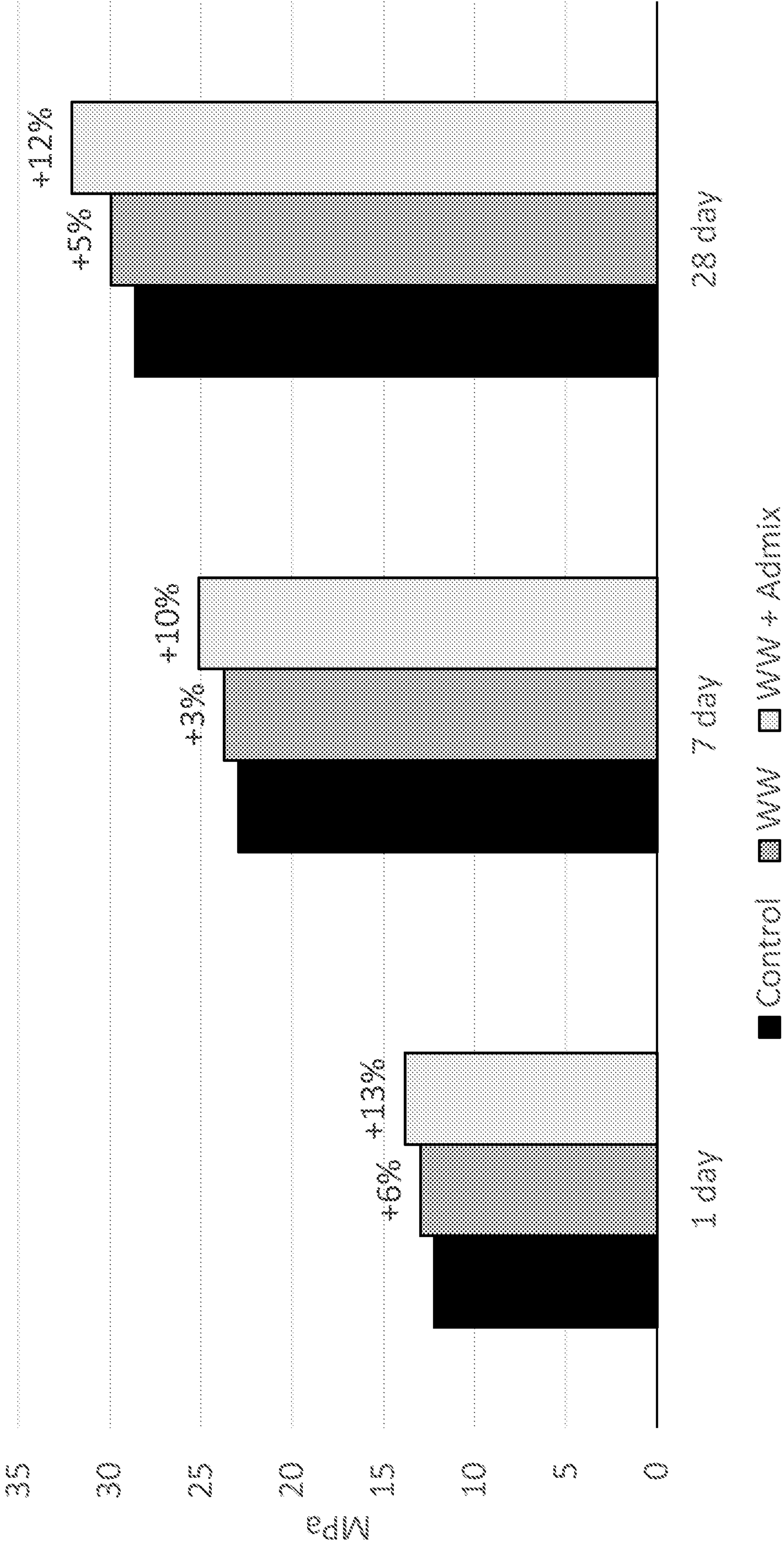


Figure 75

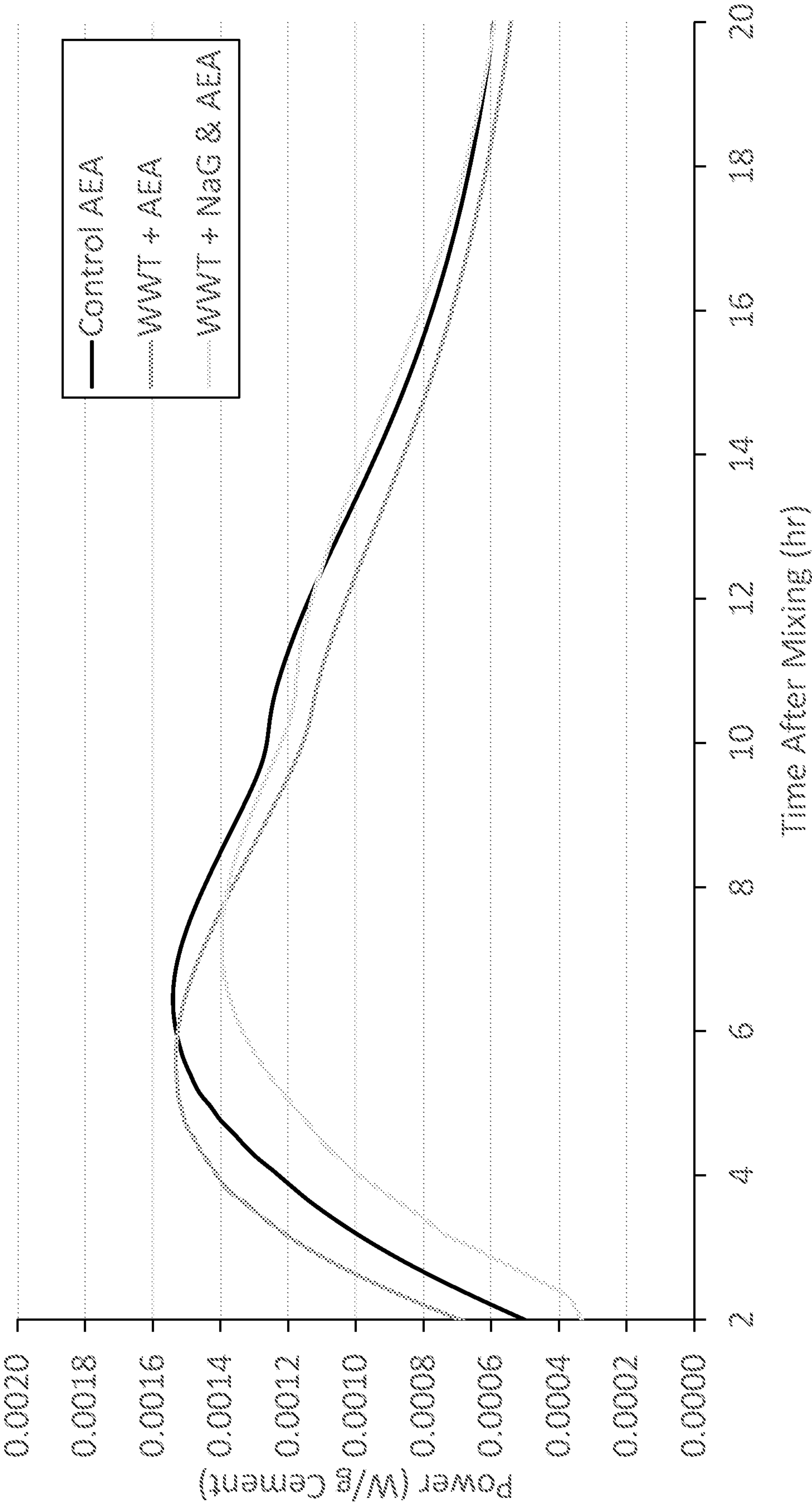


Figure 76

Batch ID	Control	WWT	WWT + 2% NaG
Sand Mass (kg)	22.77	22.77	22.77
Coarse Aggregate Mass (kg)	32.91	32.91	32.91
Cement Mass (kg)	9.40	9.40	9.40
Water Mass (kg)	5.08	0	0
WW Mass (kg)	0	5.46	5.46
WW Solids Mass (kg)	0	0.38	0.38
w/c Ratio	0.63	0.60	0.60
Volume (m3)	0.0300	0.0300	0.0300

Figure 77

Slump (mm)

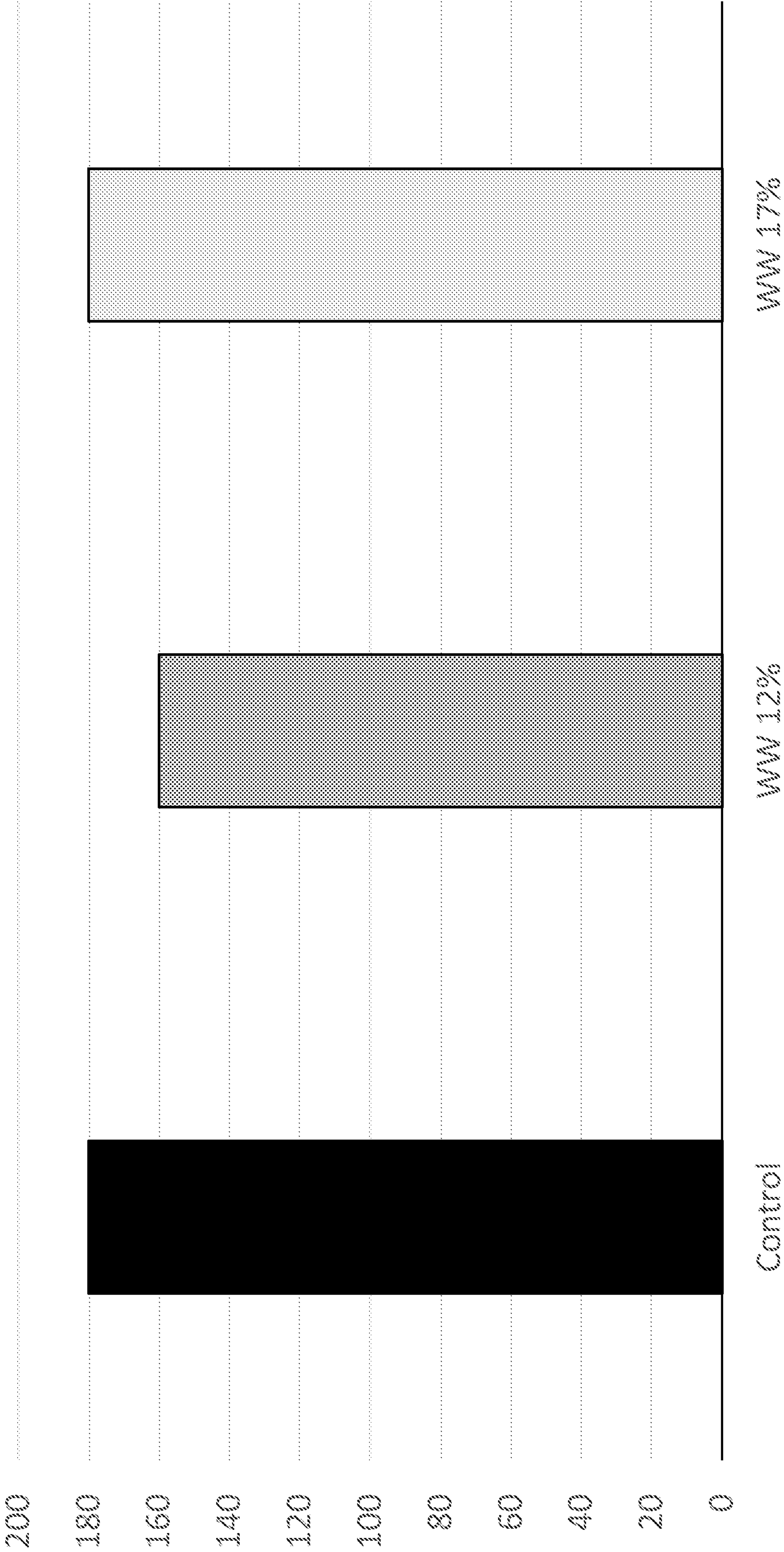


Figure 78

Compressive Strength

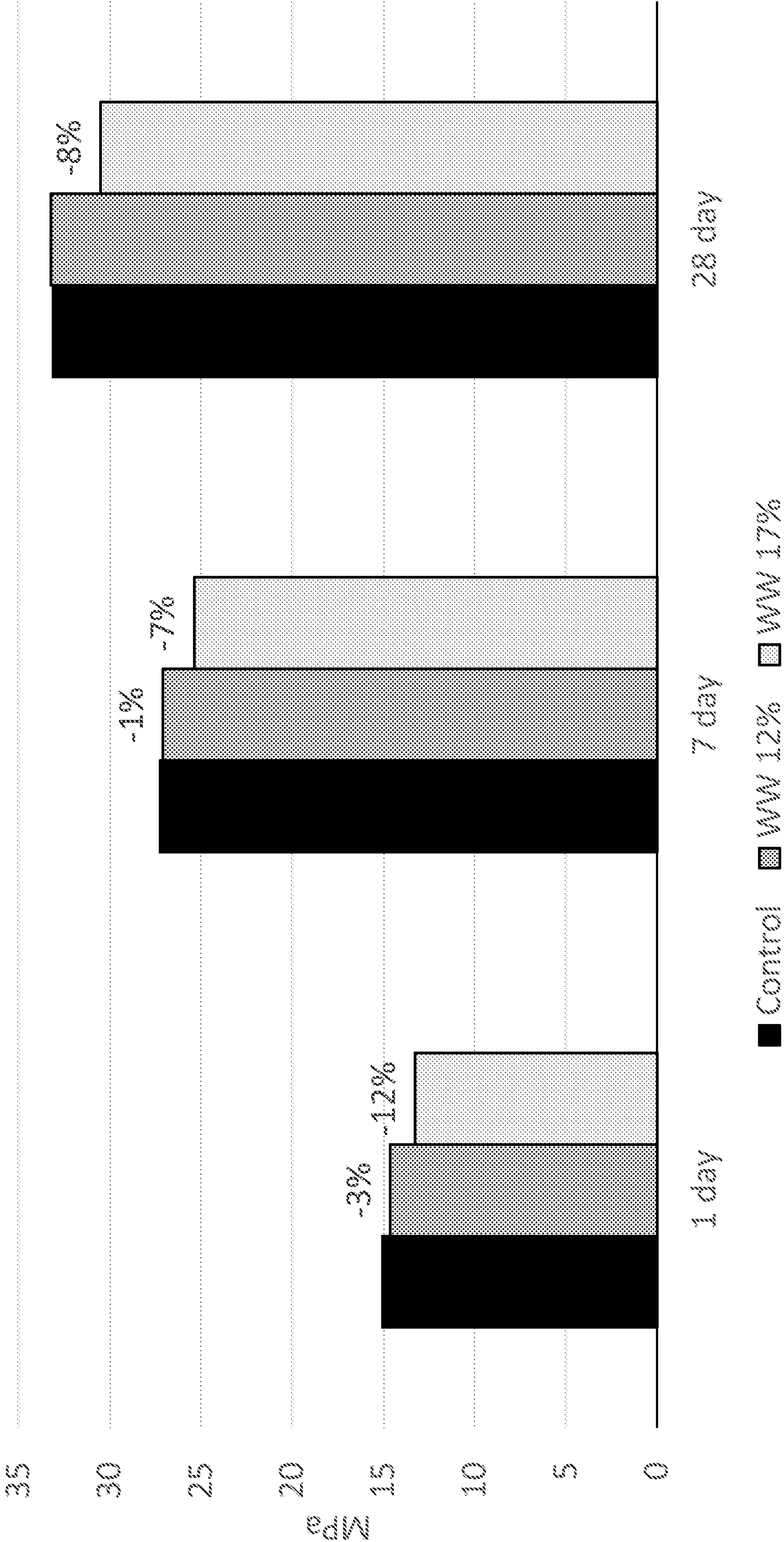


Figure 79

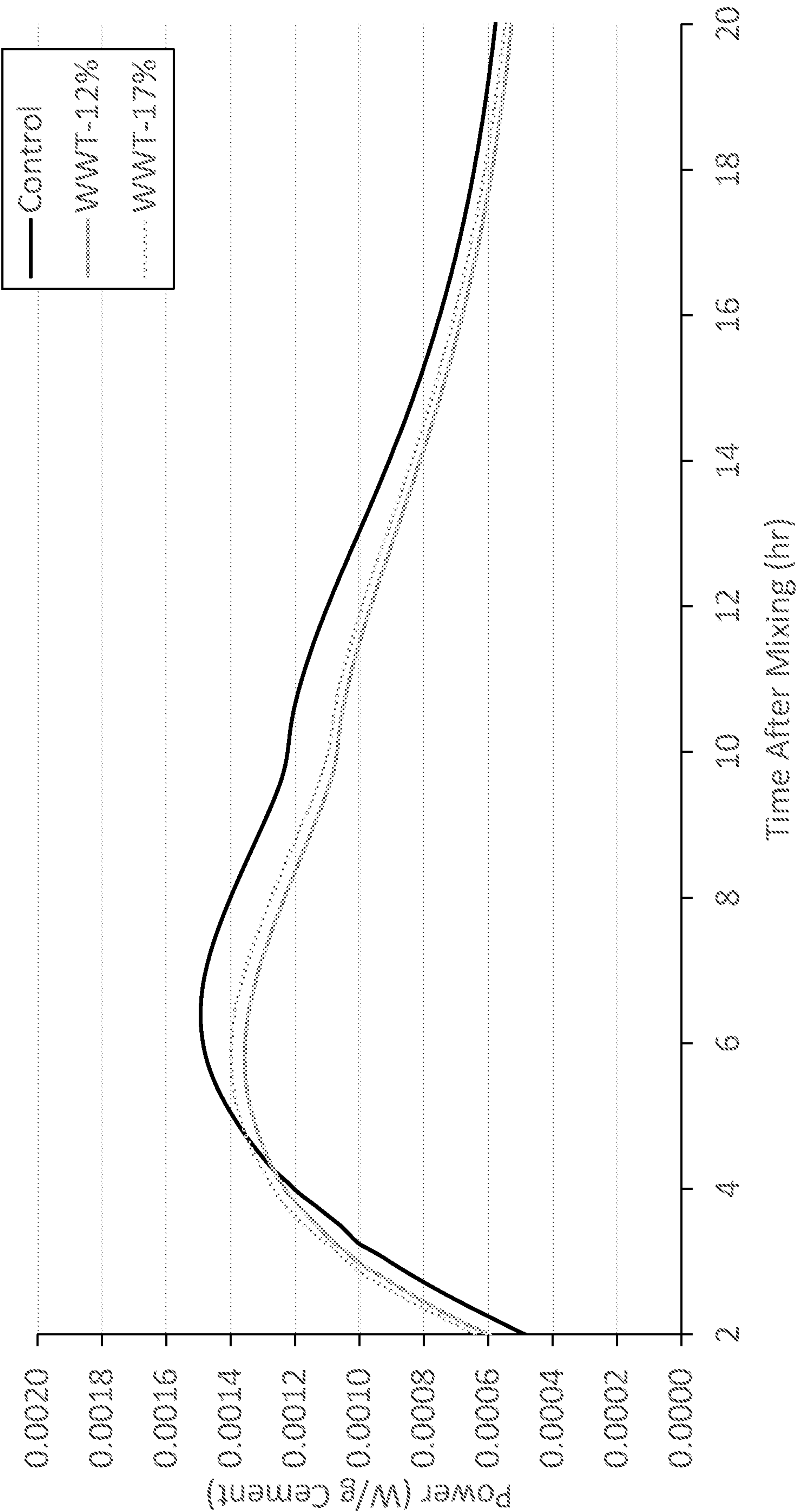


Figure 80

Batch ID	Control	12% WWT	17% WWT
Sand Mass (kg)	22.77	22.77	22.77
Coarse Aggregate Mass (kg)	32.91	32.91	32.91
Cement Mass (kg)	9.40	9.40	9.40
Water Mass (kg)	5.14	0	0
WW Mass (kg)	0	5.84	6.19
WW Solids Mass (kg)	0	0.41	0.43
w/c Ratio	0.63	0.63	0.66
Volume (m3)	0.0300	0.0303	0.0307

Figure 81

Slump (mm)

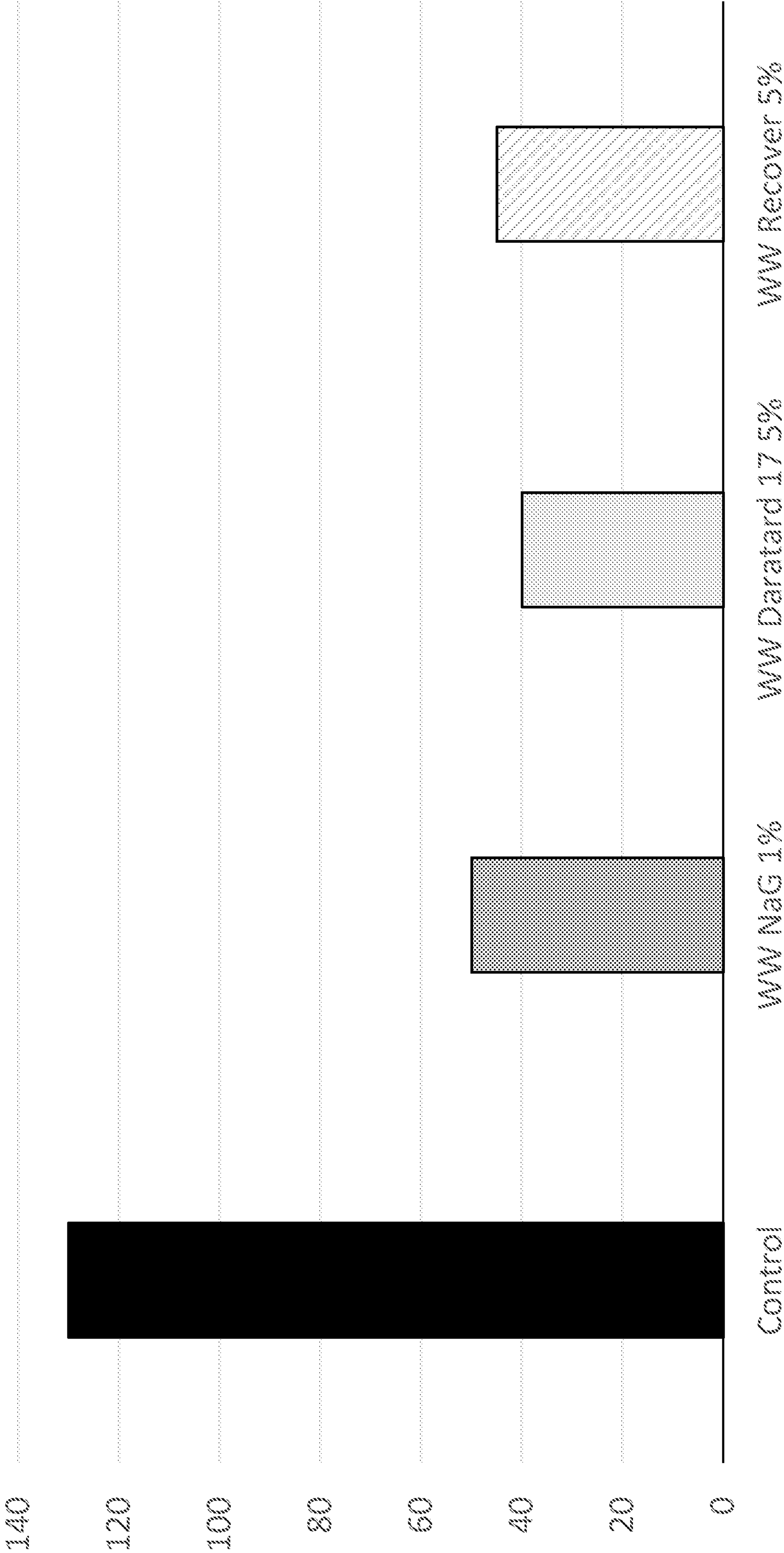


Figure 82
Compressive Strength

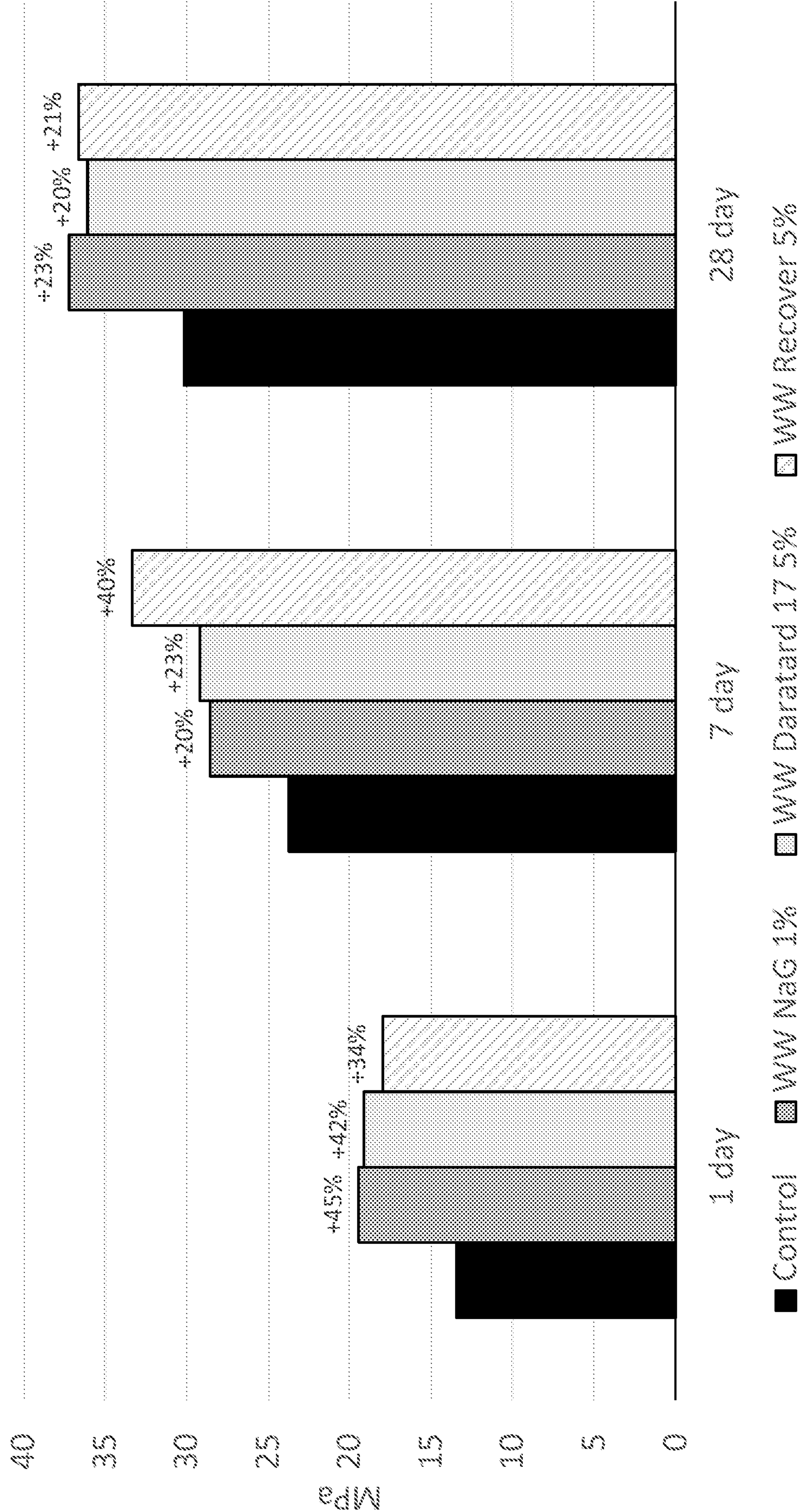


Figure 83

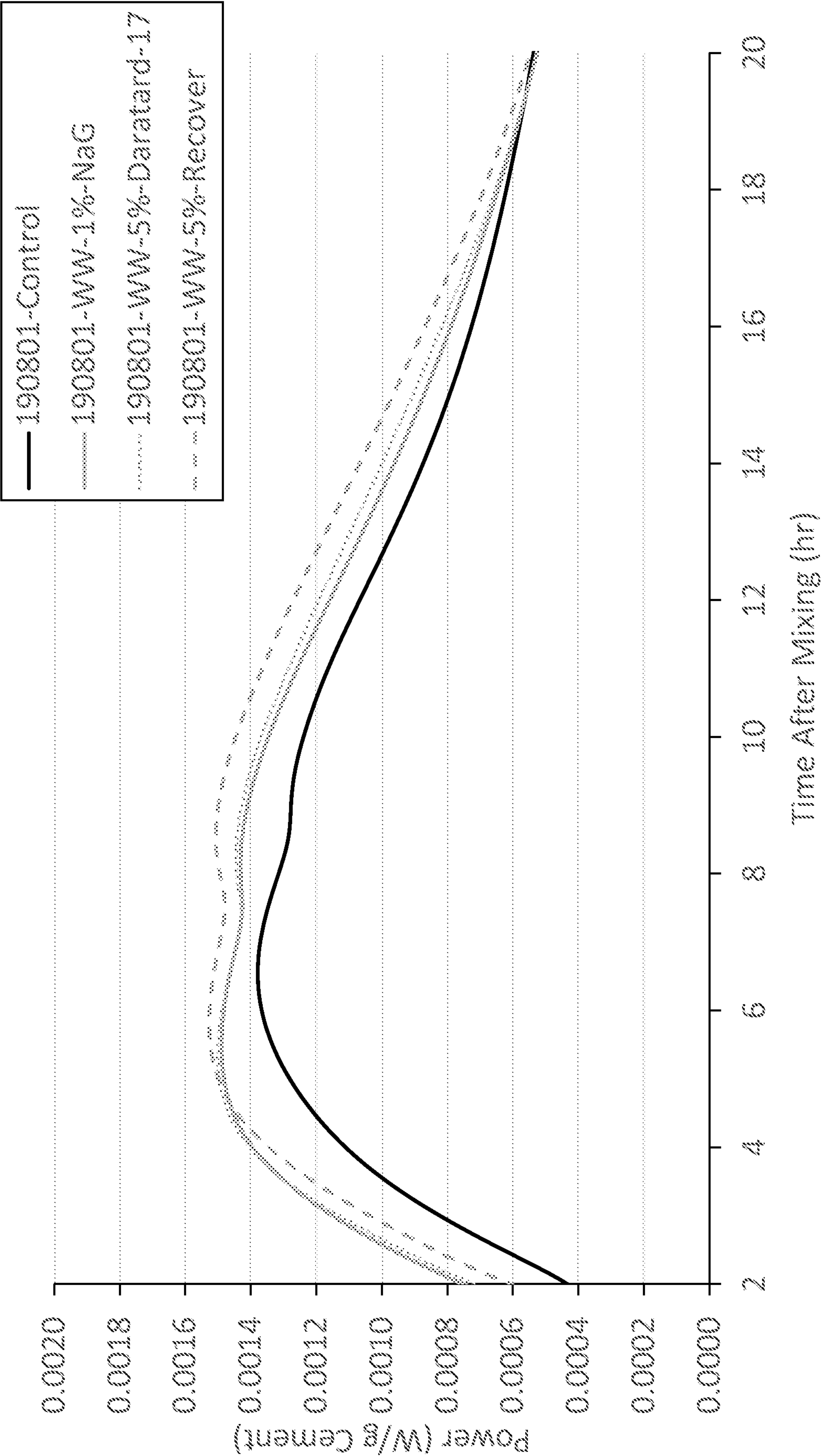


Figure 84

Batch ID	Control	WWT + NaG	WWT + Daratard 17	WWT + Recover
Sand Mass (kg)	16.50	16.50	16.50	16.50
Coarse Aggregate Mass (kg)	23.85	23.85	23.85	23.85
Cement Mass (kg)	6.82	6.82	6.82	6.82
Water Mass (kg)	3.81	0	0	0
WW Mass (kg)	0	4.39	4.39	4.39
WW Solids Mass (kg)	0	0.58	0.58	0.58
w/c Ratio	0.63	0.58	0.58	0.58
Volume (m3)	0.0218	0.0218	0.0218	0.0218

Figure 85

Slump (mm)

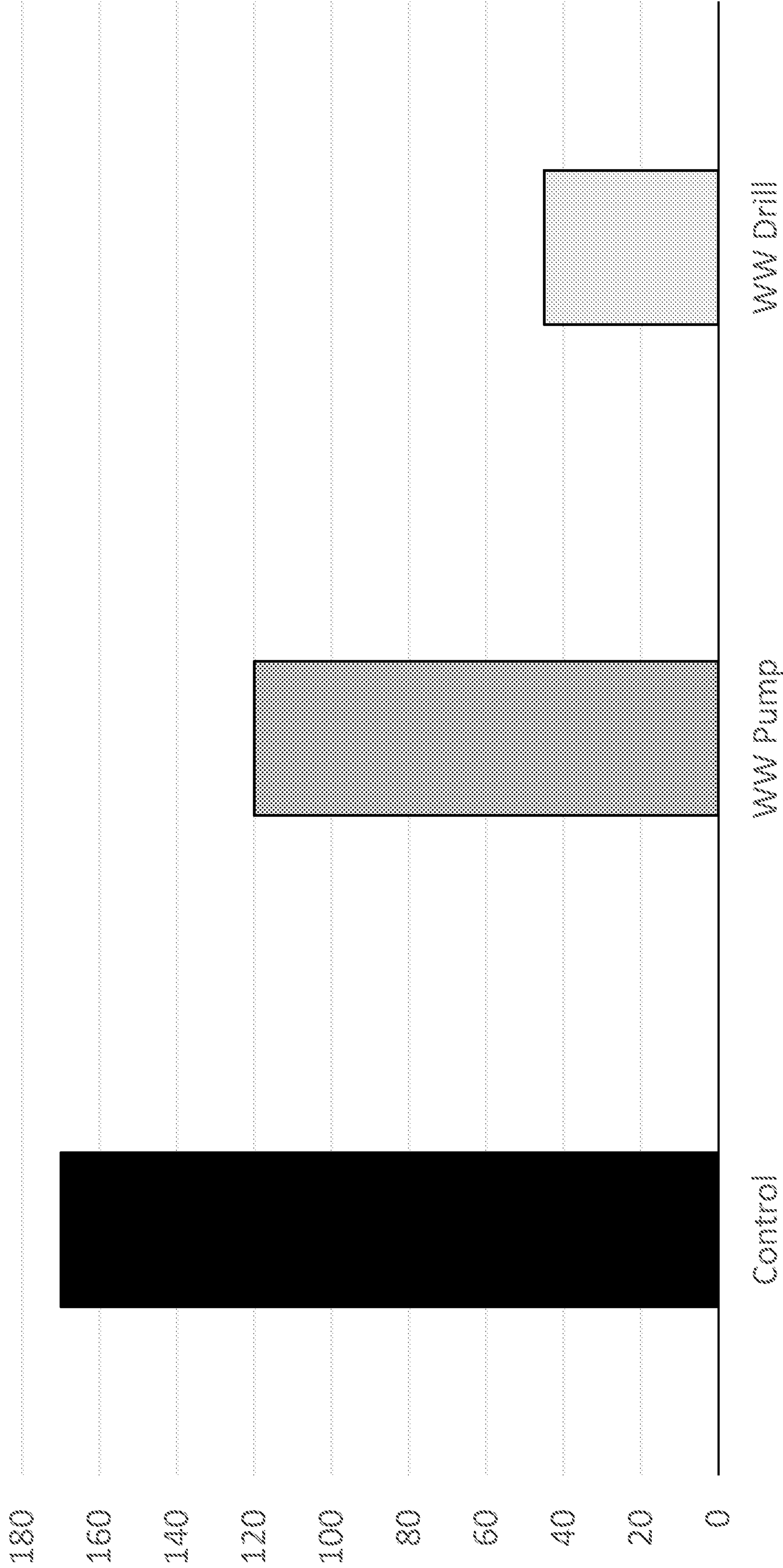


Figure 86
Compressive Strength

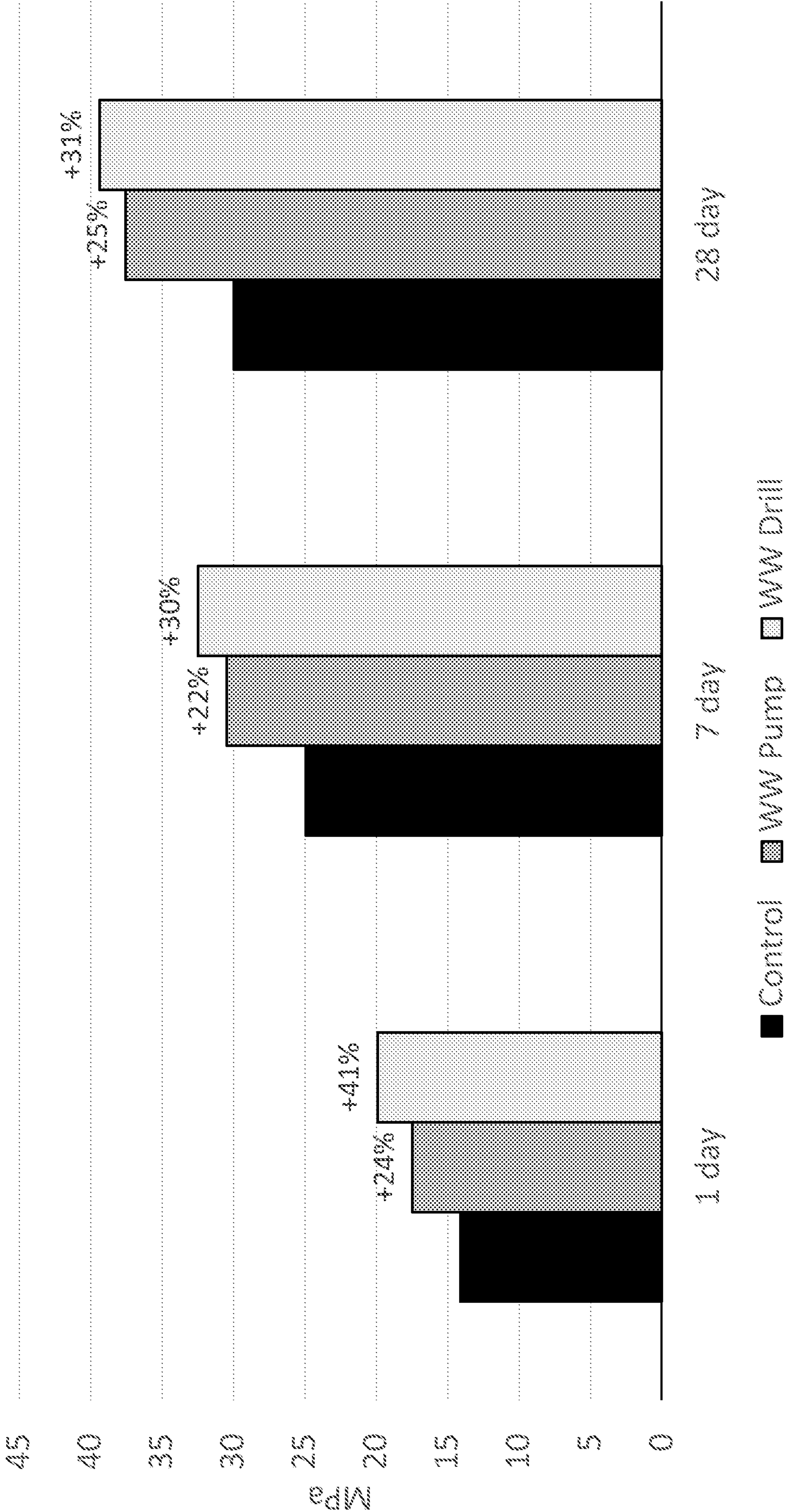


Figure 87

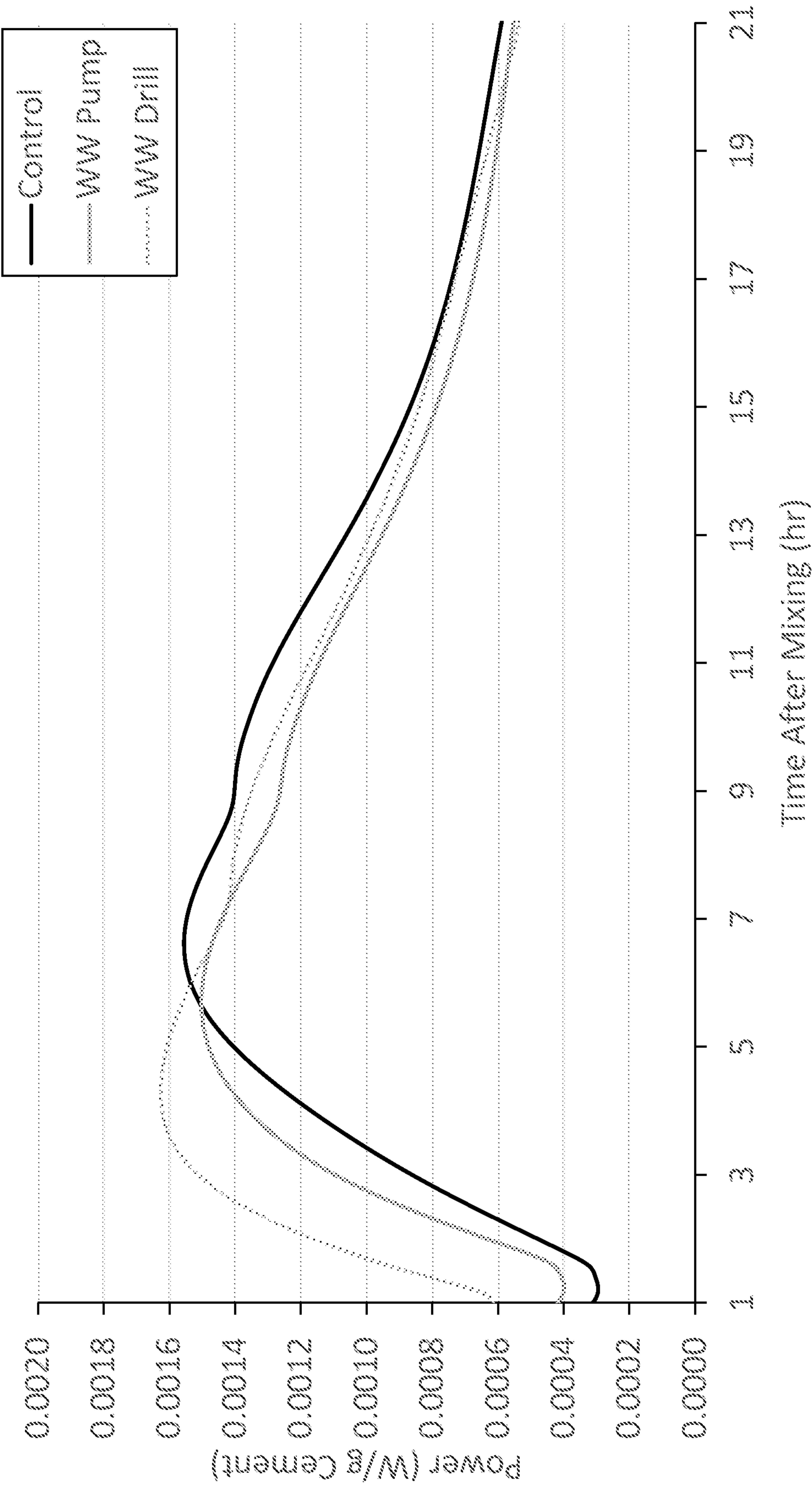


Figure 88

Batch ID	Control	WWT Pump	WWT Drill
Sand Mass (kg)	22.77	22.77	22.77
Coarse Aggregate Mass (kg)	32.91	32.91	32.91
Cement Mass (kg)	9.40	9.40	9.40
Water Mass (kg)	4.92	0	0
WW Mass (kg)	0	5.68	5.68
WW Solids Mass (kg)	0	0.76	0.76
w/c Ratio	0.63	0.58	0.58
Volume (m3)	0.0300	0.0300	0.0300

Figure 89

Trial #	# of injection points	Total reaction hose length (ft)	Inline Mixing	CO2 Gas Flowrate (SLPM) per injection point	CO2 Gas Flowrate (SLPM) total	CO2 uptake (% bwc)	Uptake Efficiency
1	1	20	NO	200	200	1.3%	100%
2	1	20	NO	400	400	1.7%	51%

Figure 90

Trial #	# of injection points	Total reaction hose length (ft)	Inline Mixing	CO2 Gas Flowrate (SLPM) per injection point	CO2 Gas Flowrate (SLPM) total	CO2 uptake (% bwc)	Uptake Efficiency
1	1	20	NO	400	400	1.7%	51%
2	1	20	YES	400	400	2.4%	70%

Figure 91

Trial #	# of injection points	Total reaction hose length (ft)	Inline Mixing	CO2 Gas Flowrate (SLPM) per injection point	CO2 Gas Flowrate (SLPM) total	CO2 uptake (% bwc)	Uptake Efficiency
1	1	20	YES	400	400	2.4%	70%
2	2	40	YES	400	800	2.5%	84%

Figure 92

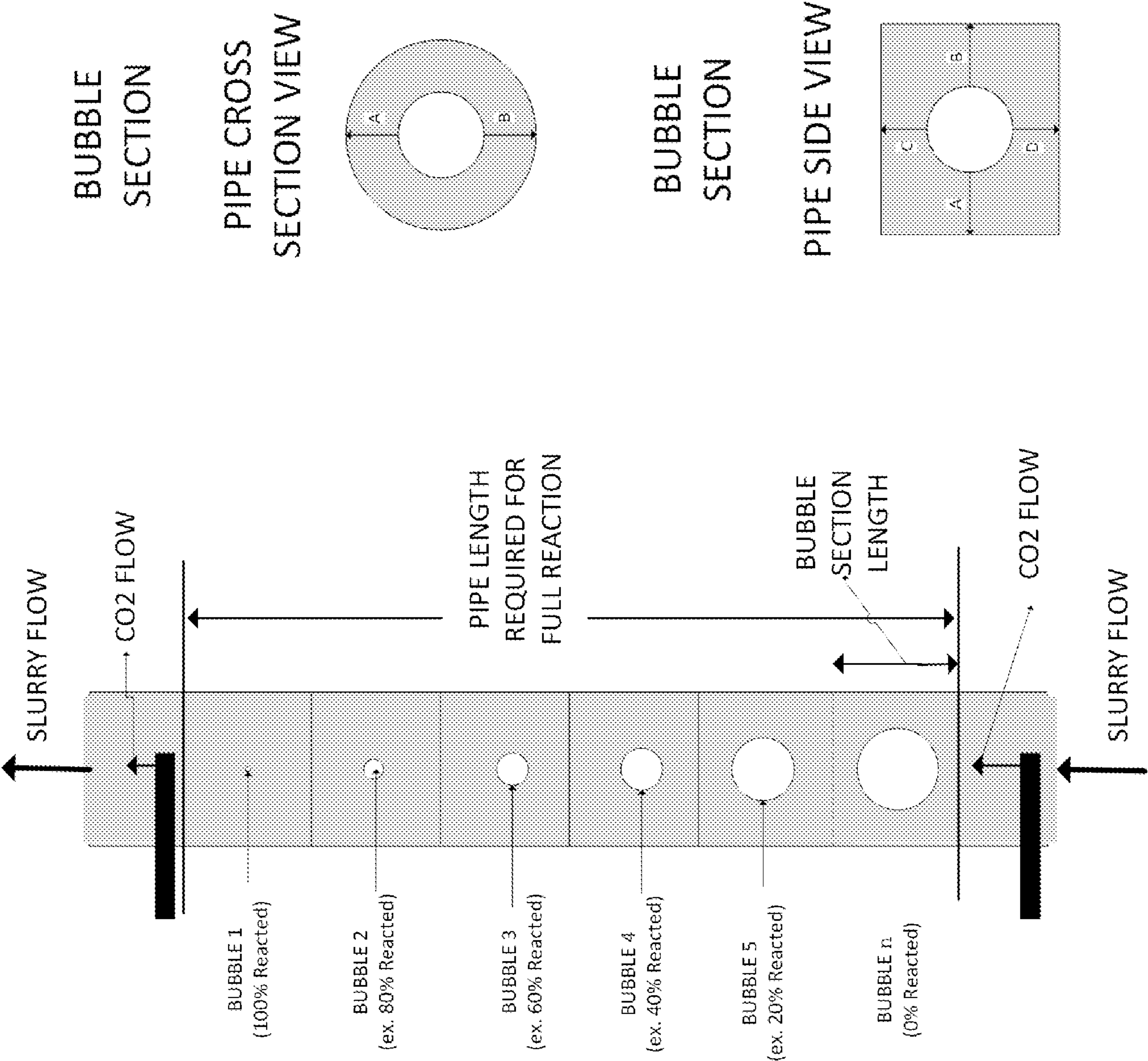


Figure 93

Workability

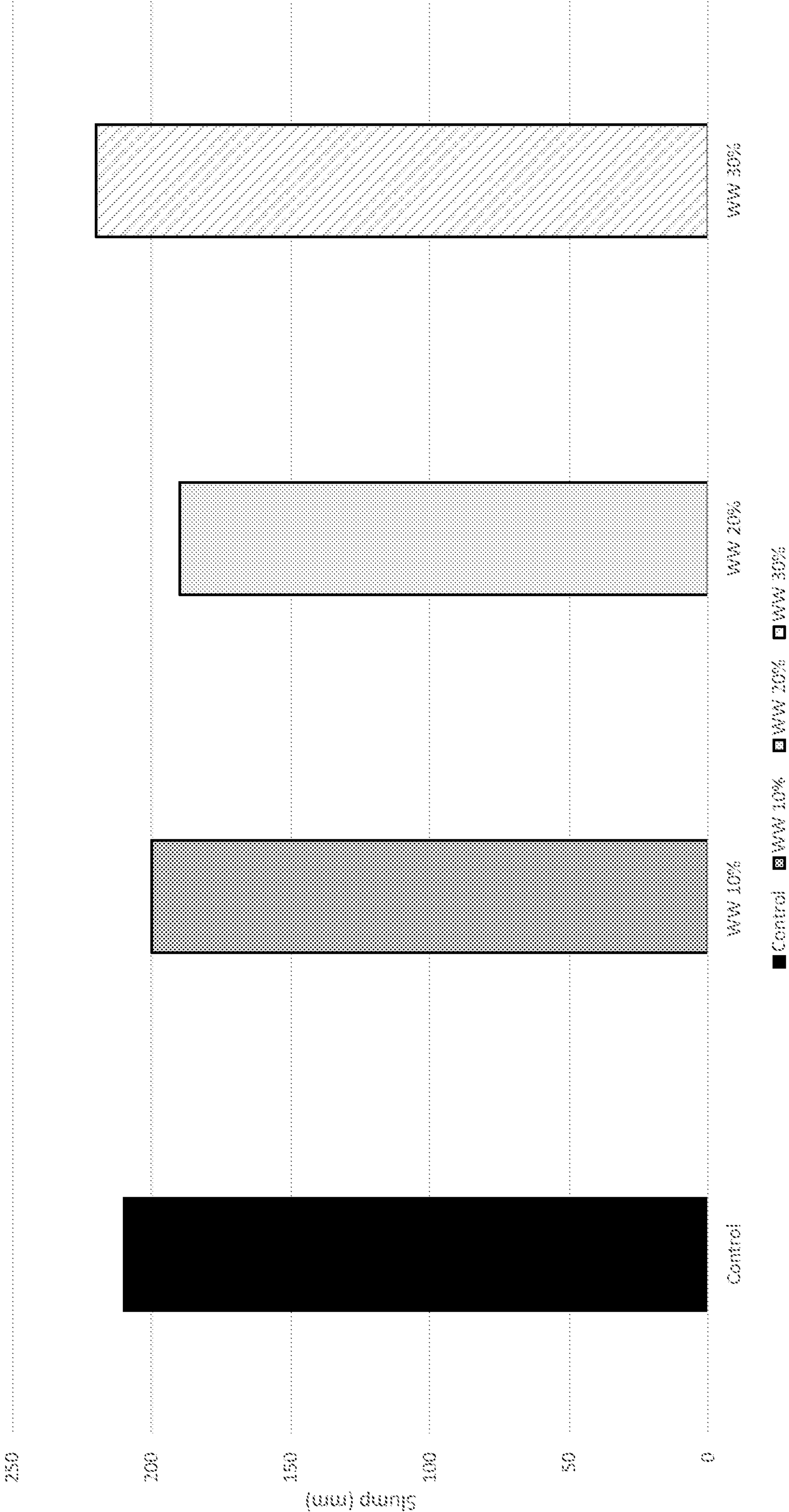


Figure 94

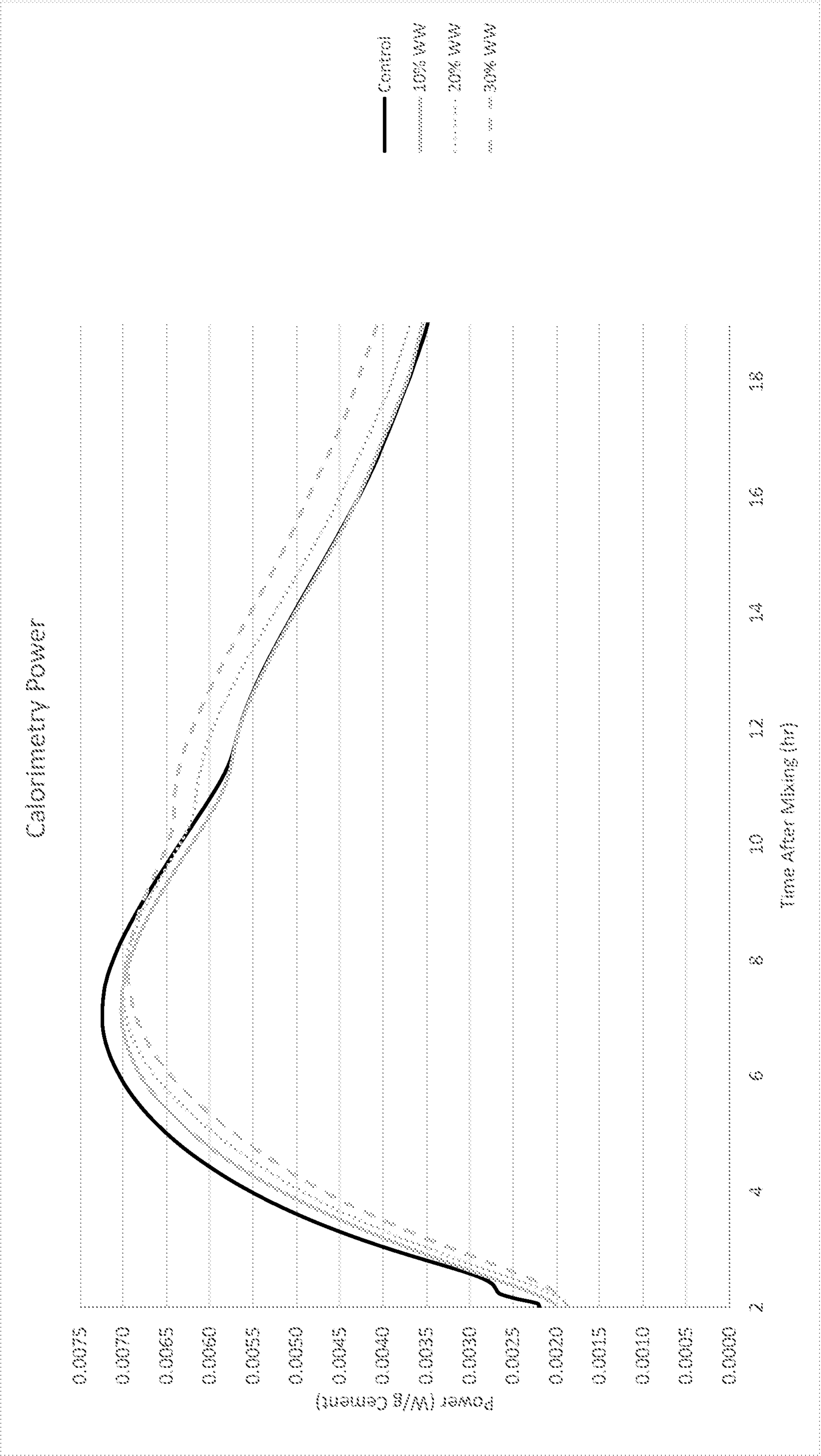


Figure 95
Compressive Strength

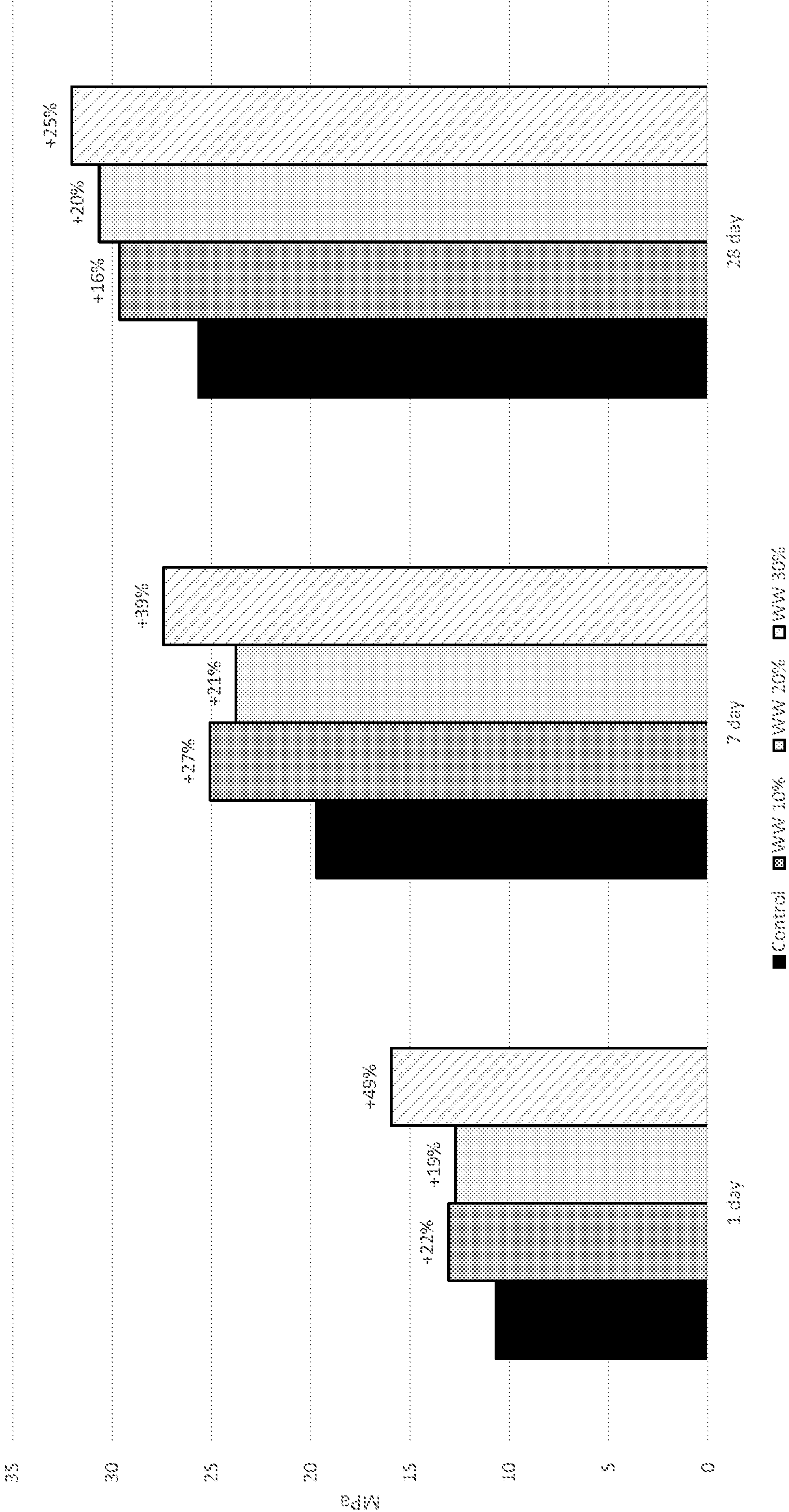


Figure 96

Batch ID	Control	10% WWT	20% WWT	30% WWT
Cement Mass (kg)	6.82	6.82	6.82	6.82
Coarse Aggregate Mass (kg)	23.85	23.85	23.85	23.85
Sand Mass (kg)	16.5	16.5	16.5	16.5
Water Mass (kg)	4.00	3.60	3.20	2.80
WW Mass (kg)	0	0.49	0.99	1.48
WW Solids Mass (kg)	0	0.09	0.19	0.28
w/c Ratio	0.59	0.58	0.57	0.56

Figure 97

Workability

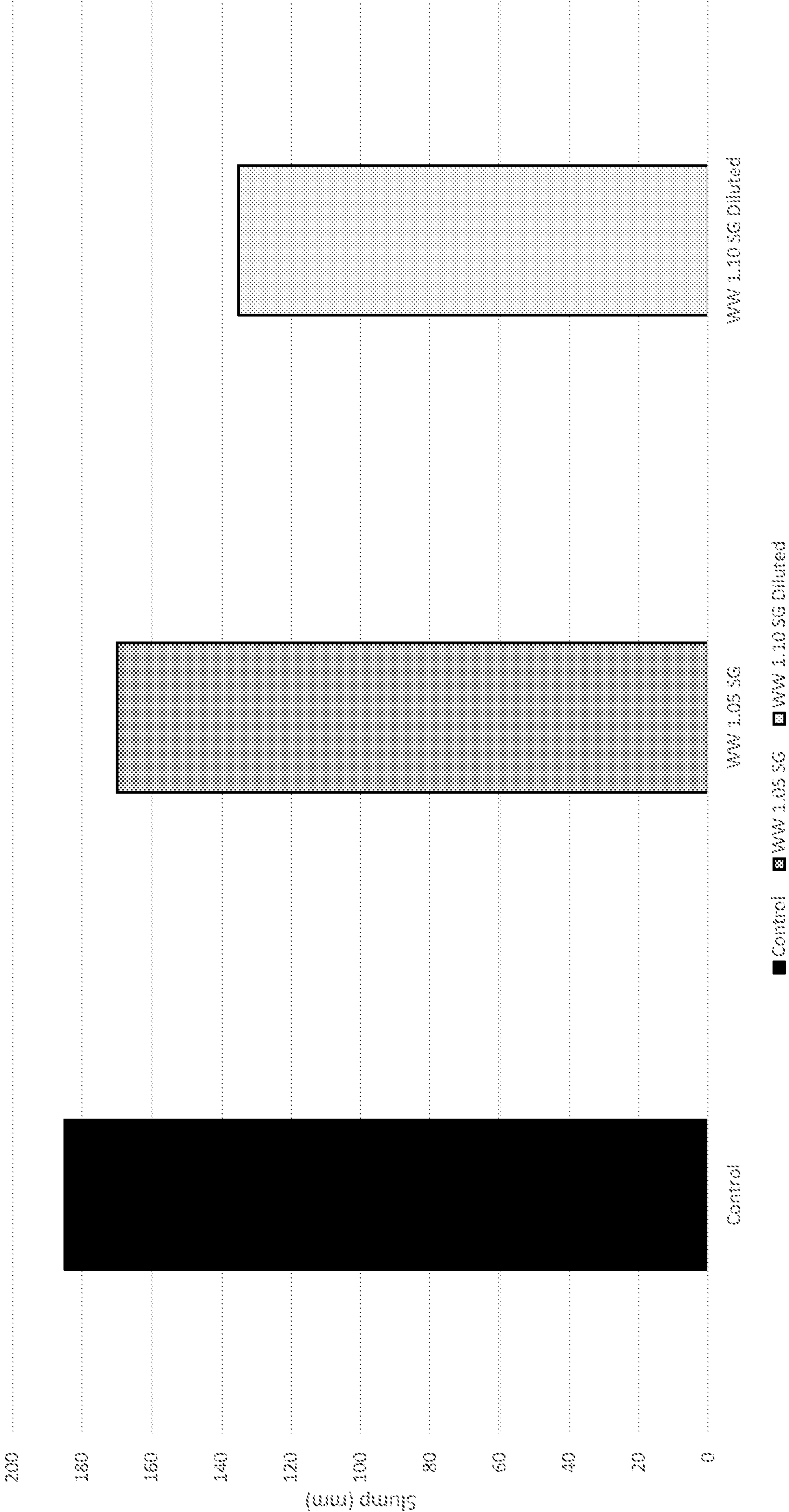


Figure 98

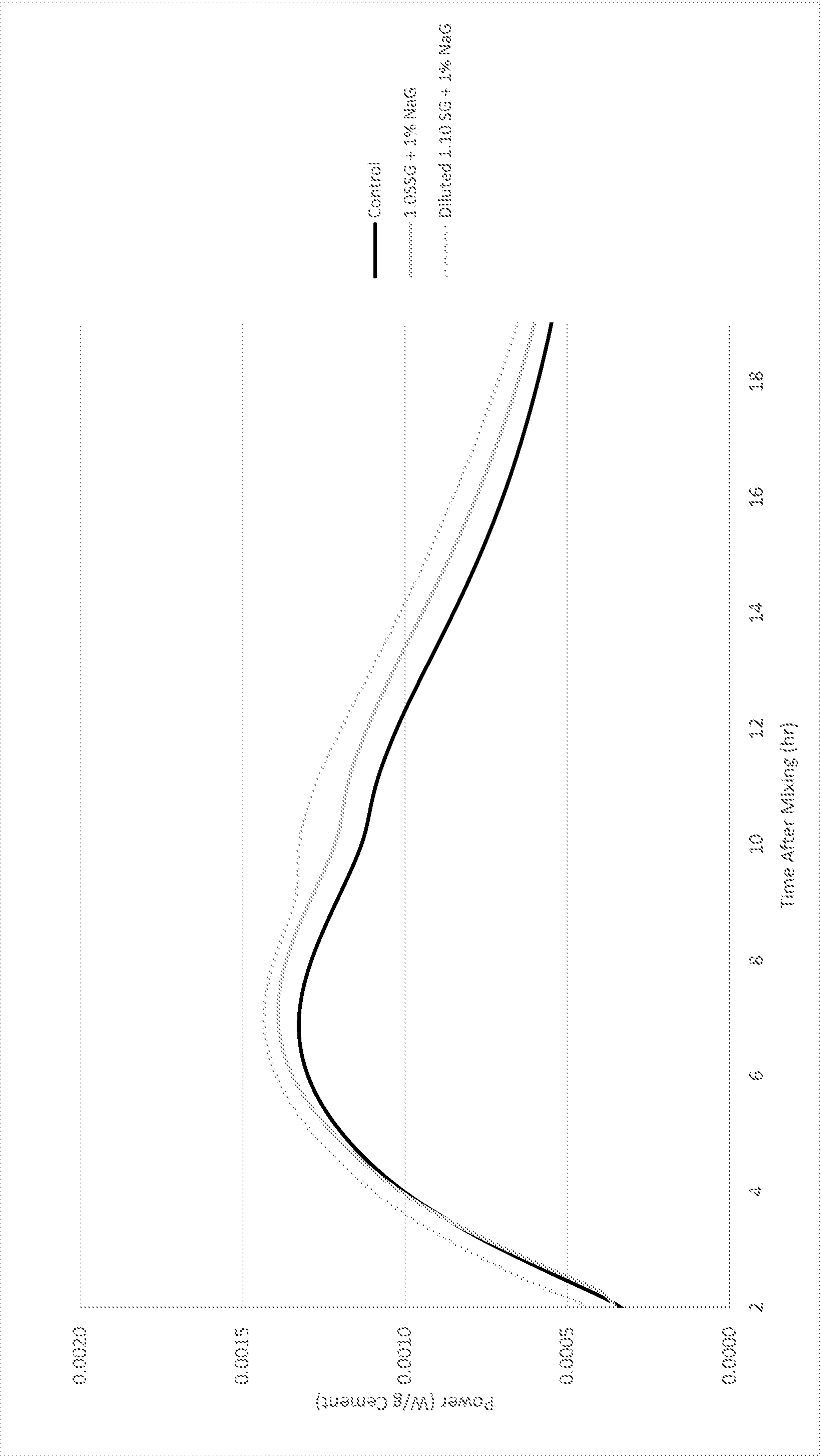


Figure 99

Compressive Strength

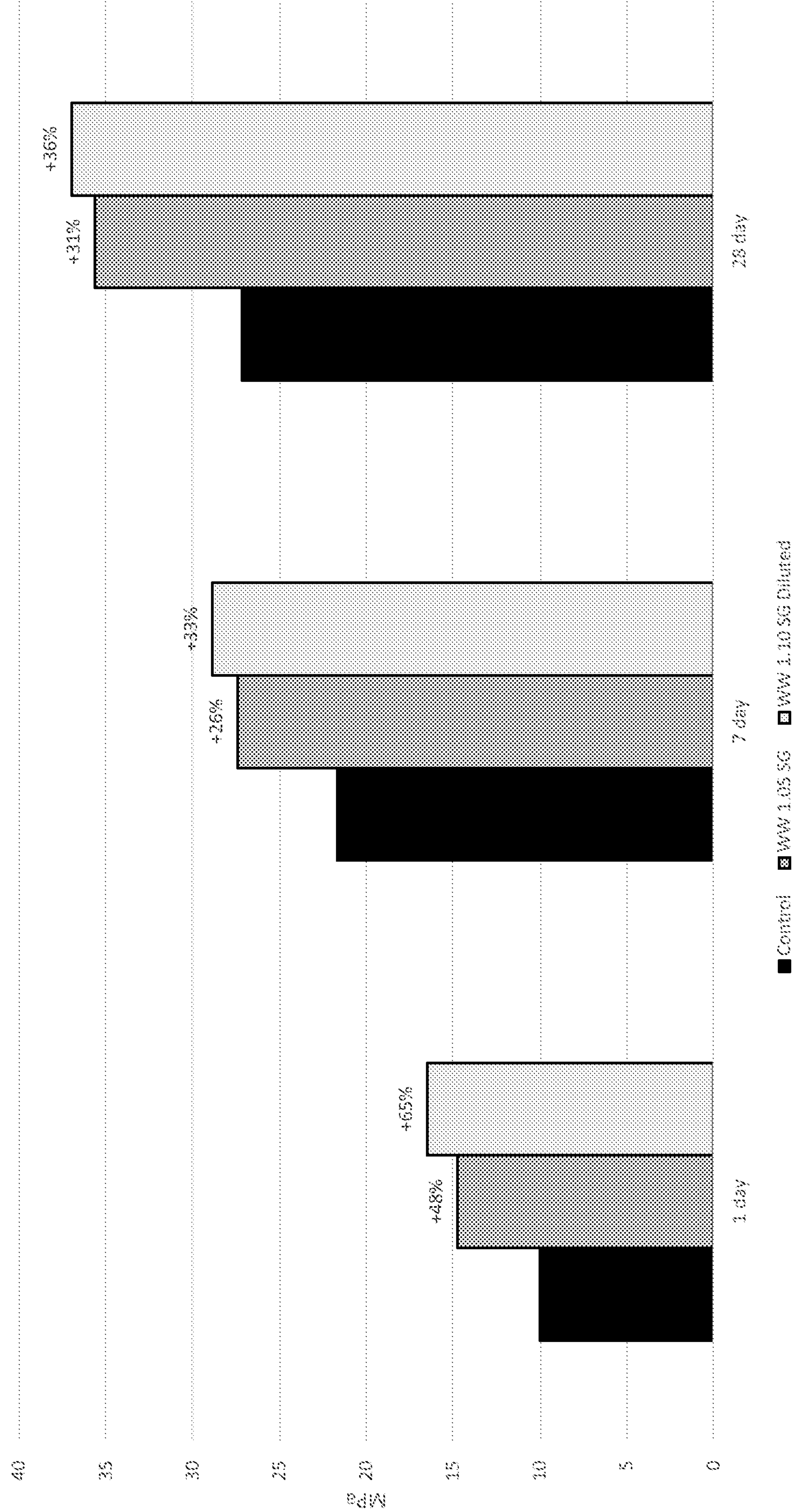


Figure 100

Batch ID	Control	1.05 SG WWT	Diluted 1.10 SG WWT
Cement Mass (kg)	6.82	6.82	6.82
Coarse Aggregate Mass (kg)	23.90	23.90	23.90
Sand Mass (kg)	16.74	16.74	16.74
Water Mass (kg)	3.99	0	2.00
WW Mass (kg)	0	4.29	2.30
WW Solids Mass (kg)	0	0.30	0.31
w/c Ratio	0.63	0.60	0.60

Figure 101

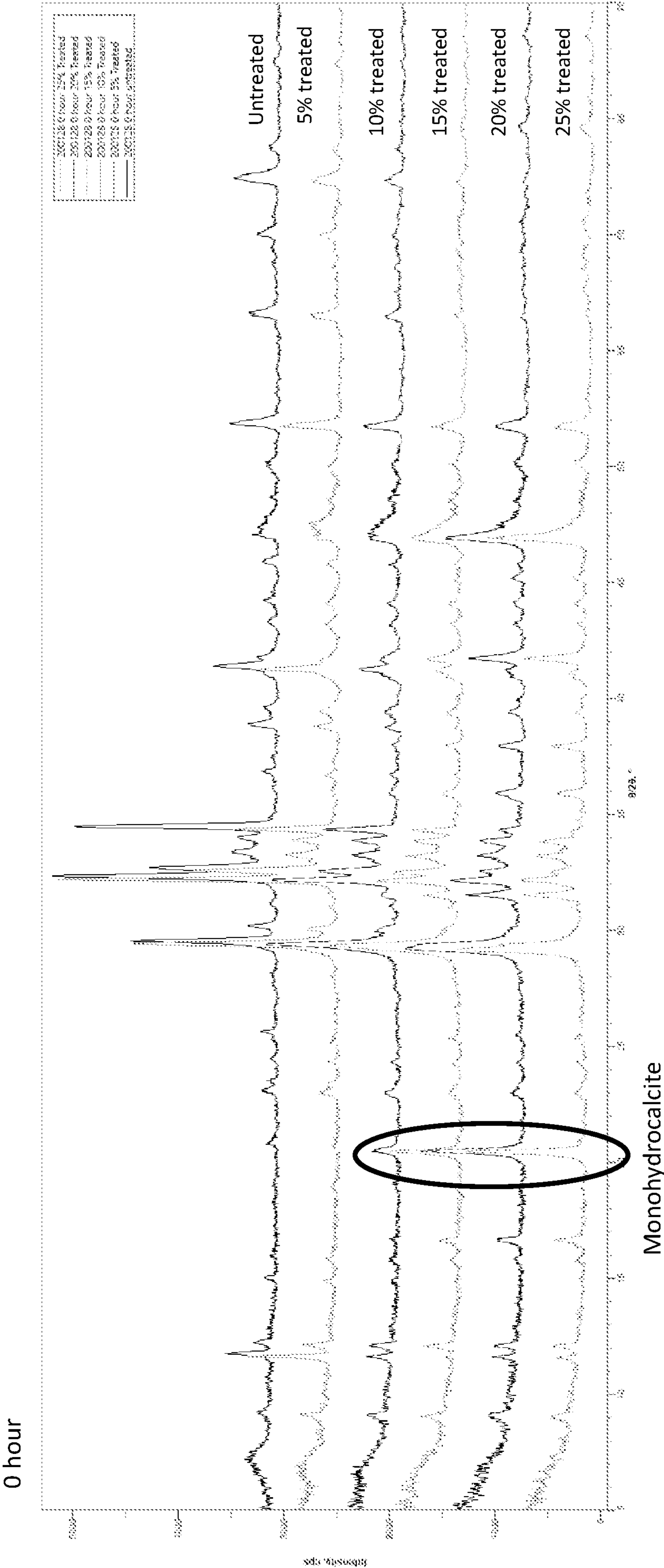


Figure 102

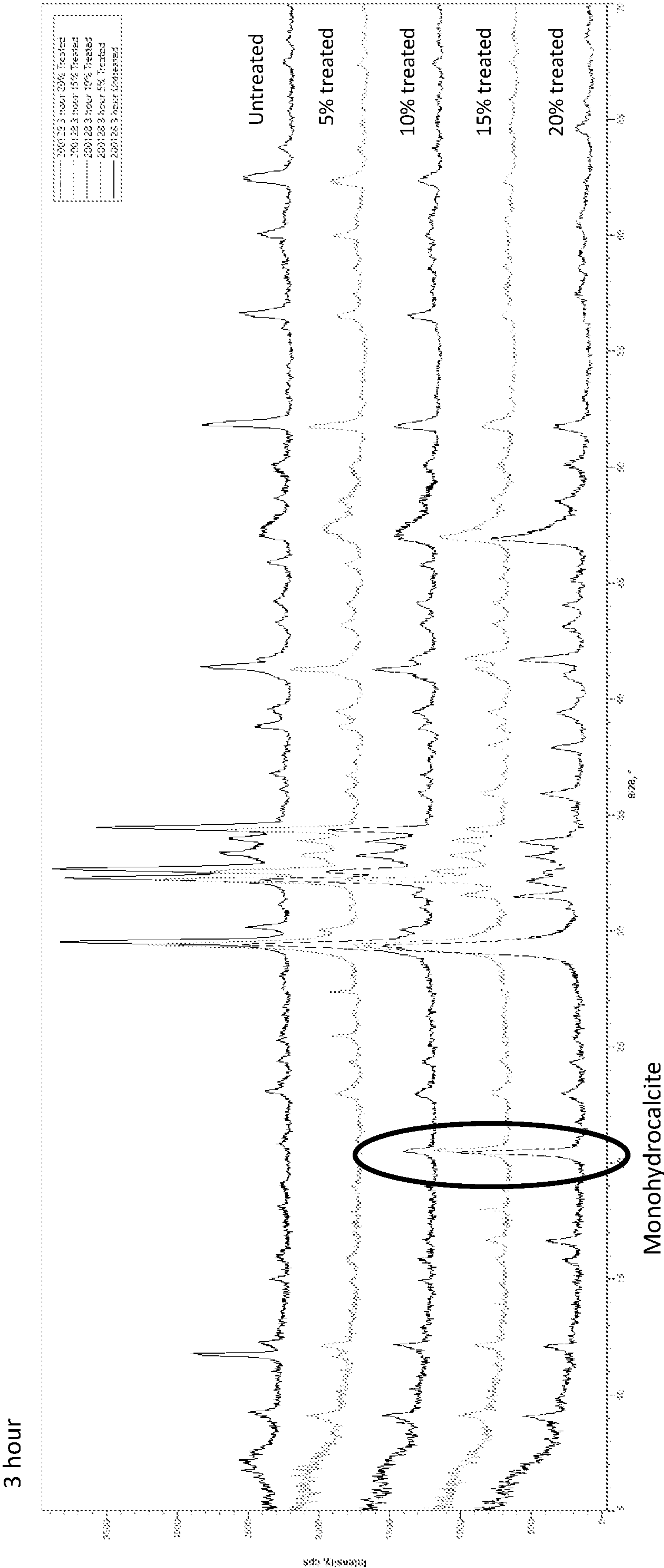


Figure 103

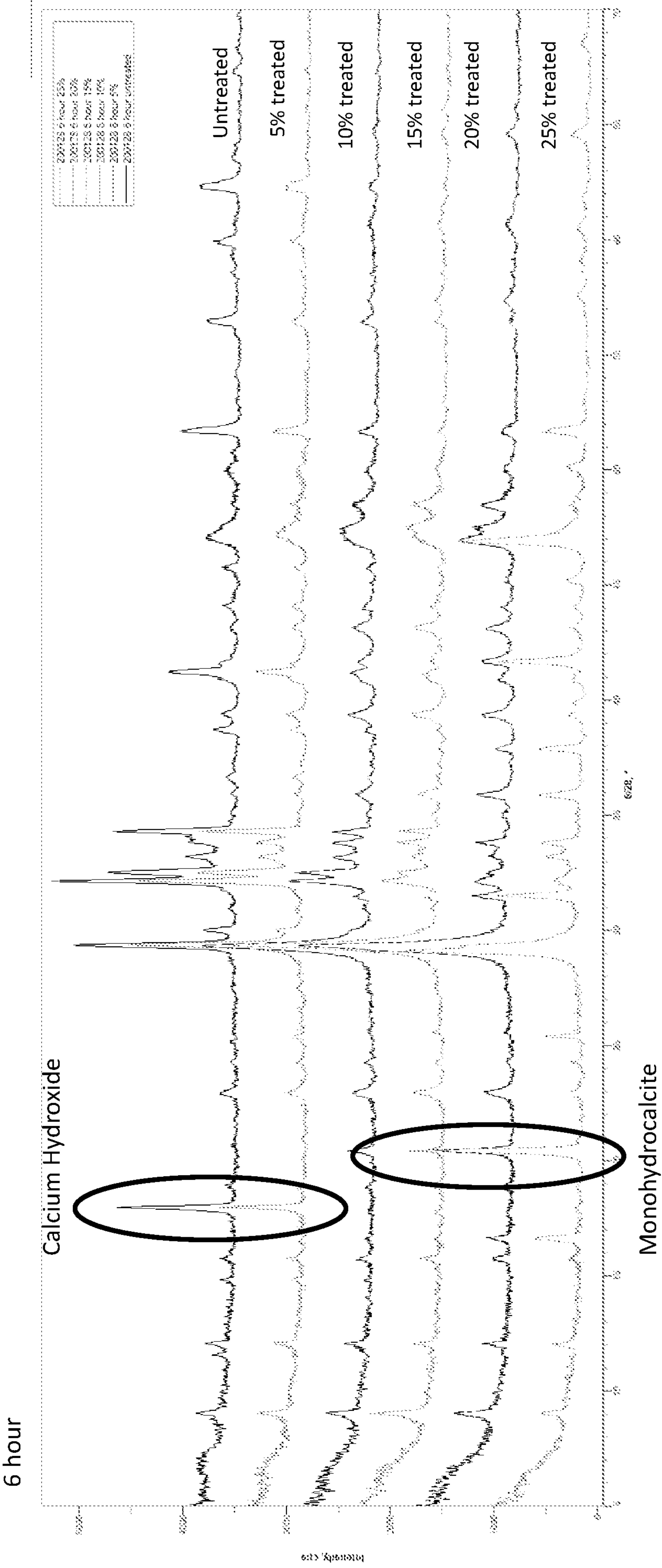


Figure 104

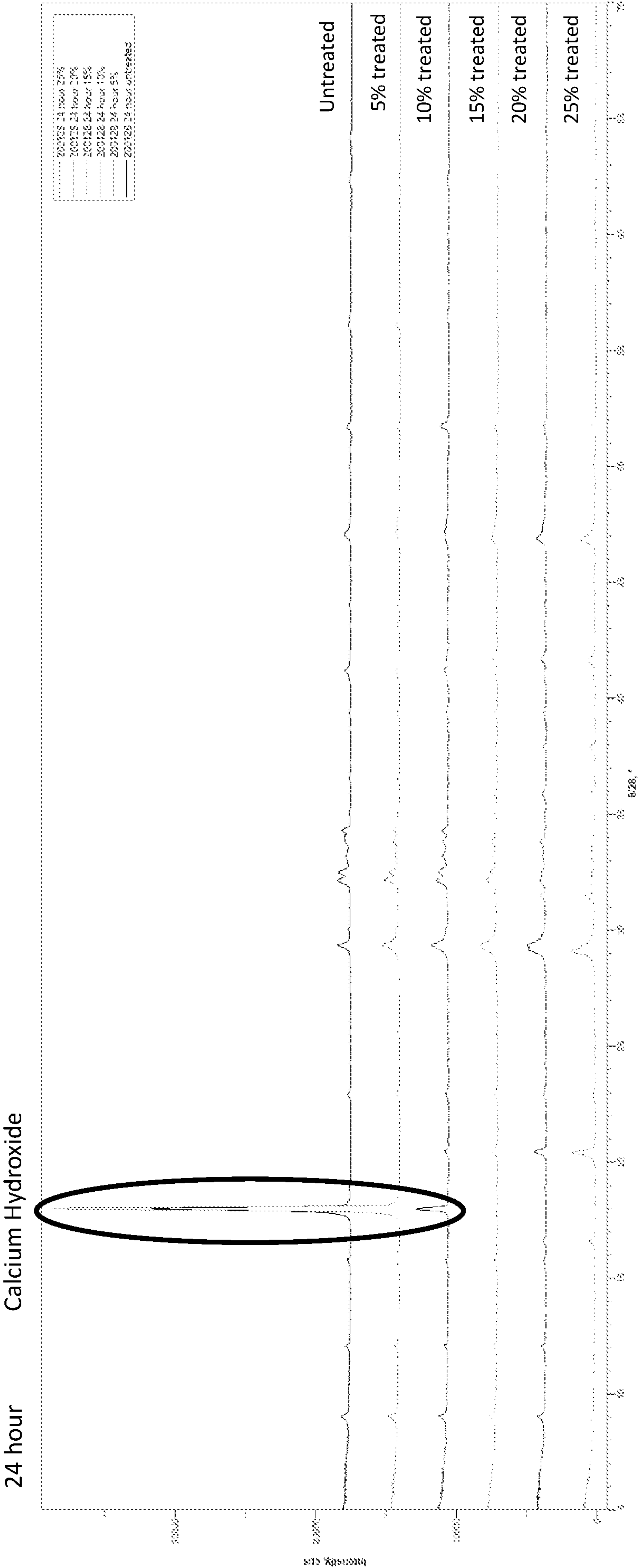


Figure 105

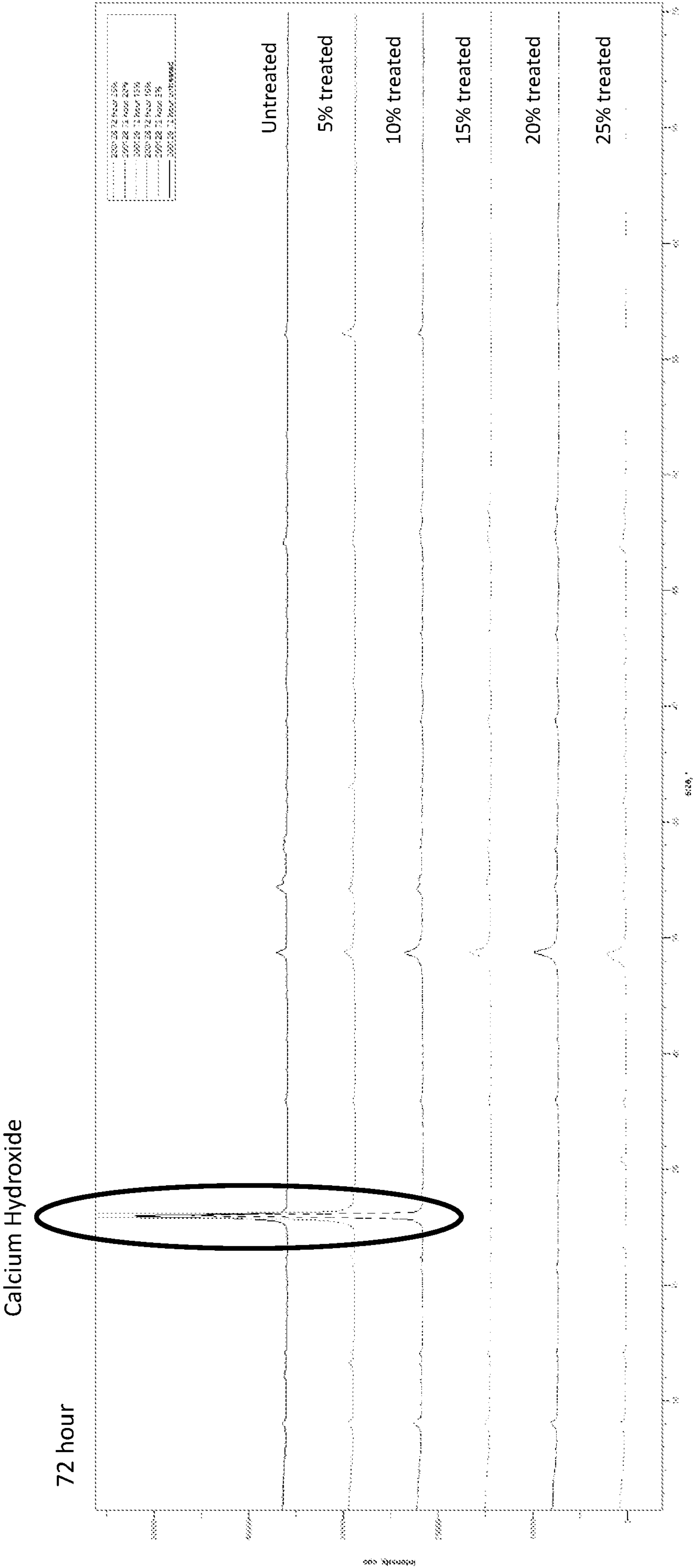


Figure 106

AVG Slump (mm)

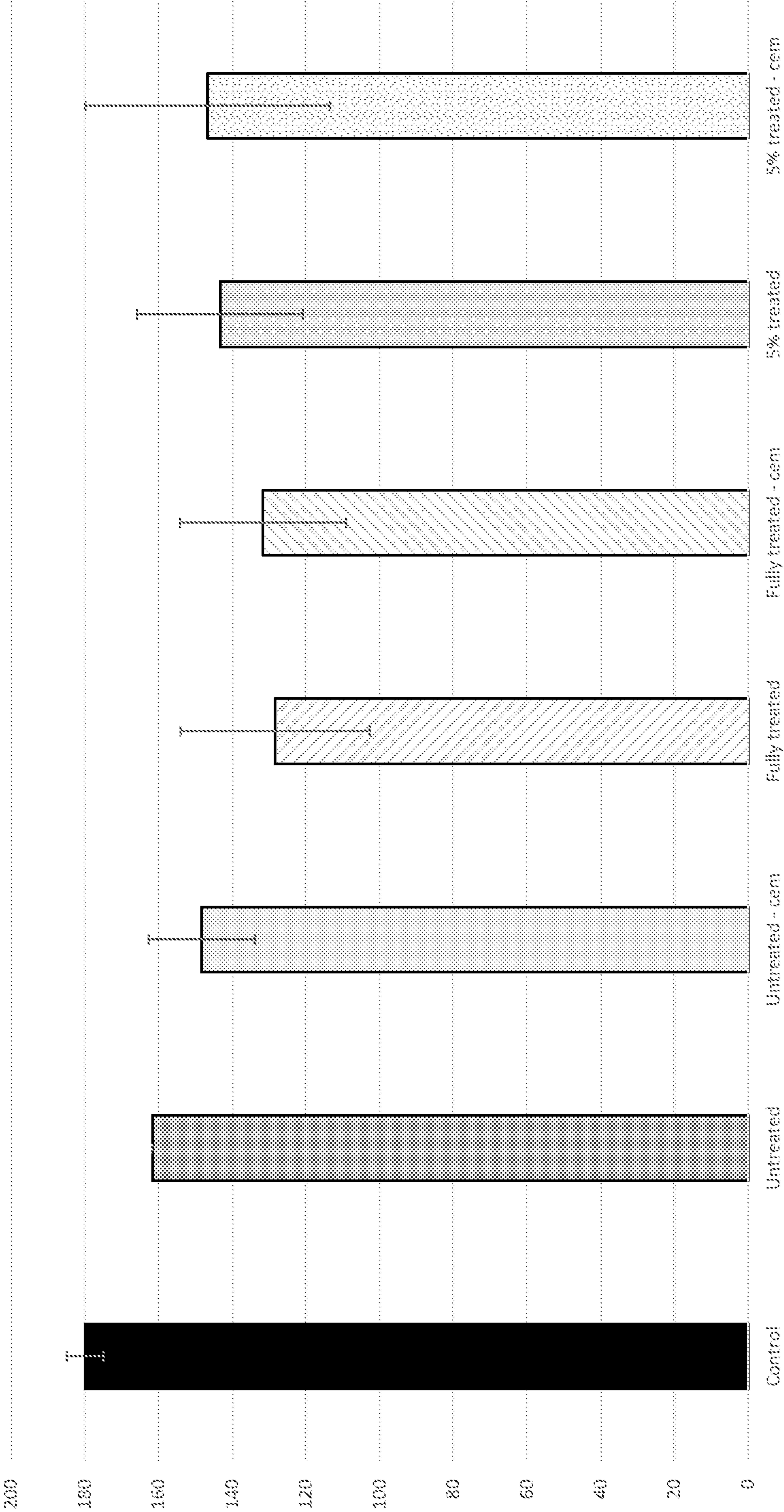


Figure 107

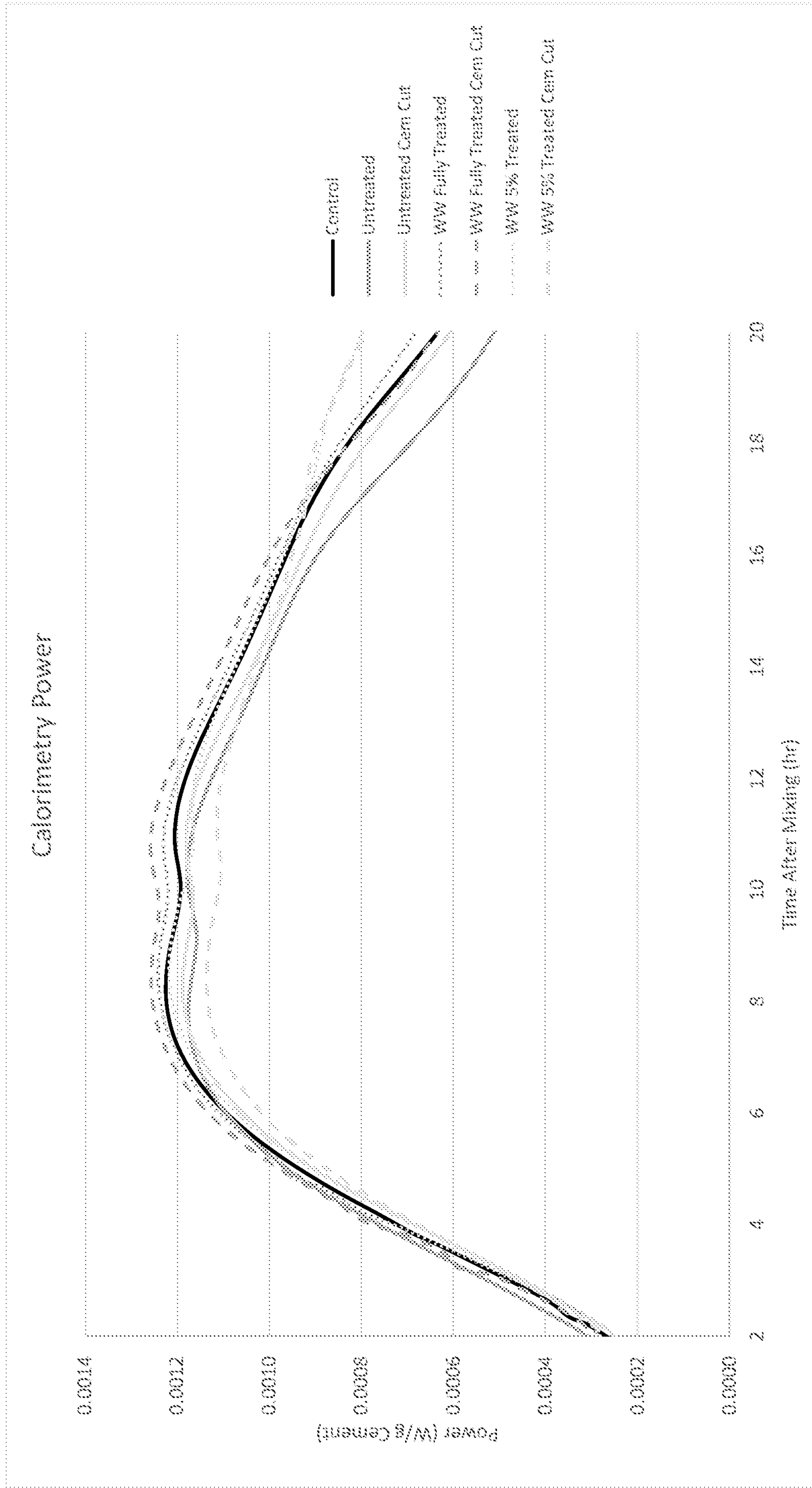


Figure 108

Compressive Strength

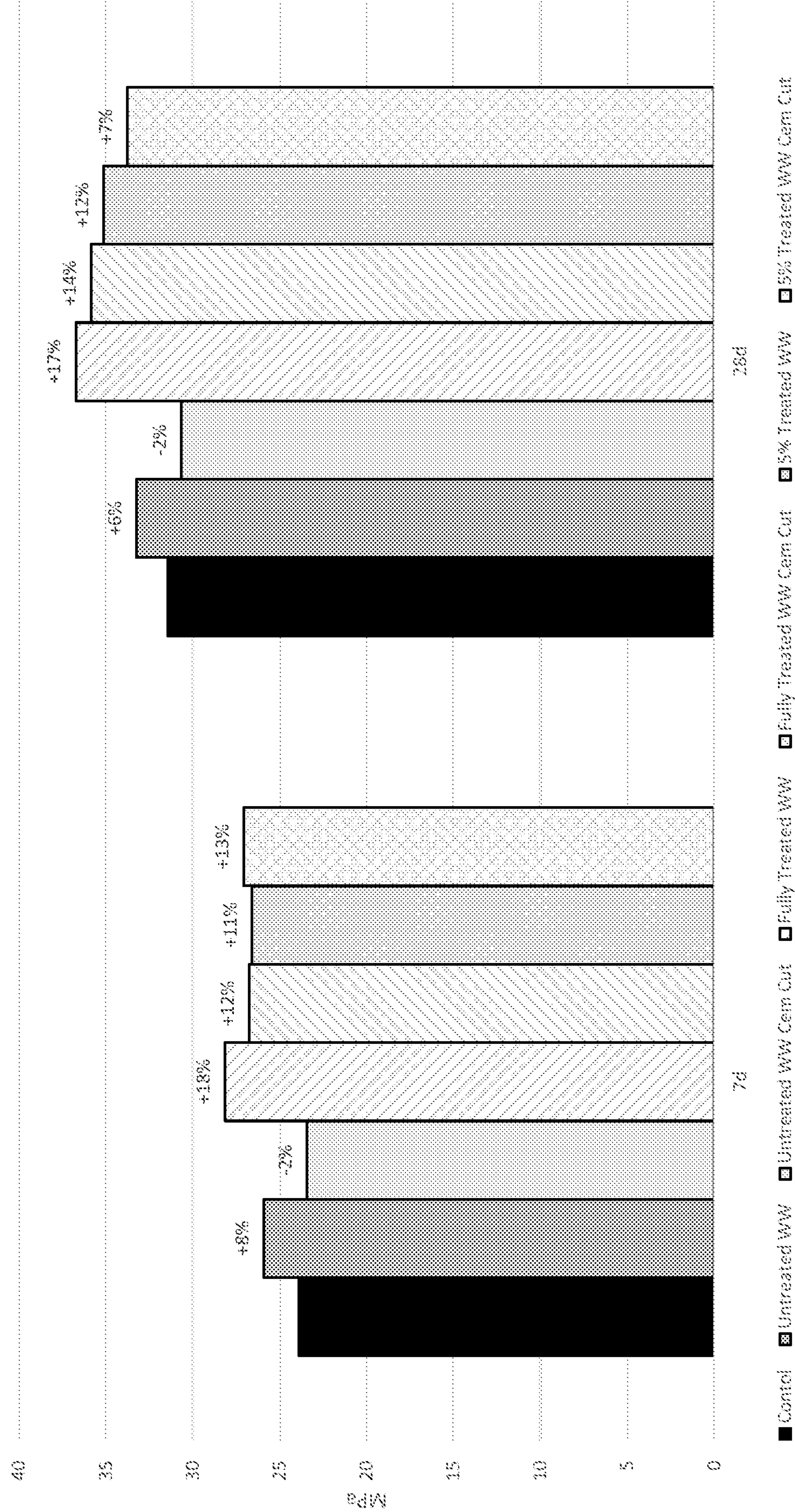


Figure 109

Batch ID	Control	WWUT	WWUT - Cem	5% WWT	5% WWT - Cem	25% WWT	25% WWT - Cem
Cement Mass (kg)	15	15	14.55	15	14.55	15	14.55
Fly Ash (kg)	5	5	4.85	5	4.85	5	4.85
Coarse Aggregate Mass (kg)	47.76	47.76	47.76	47.76	47.76	47.76	47.76
Sand Mass (kg)	39.07	39.07	39.07	39.07	39.07	39.07	39.07
Water Mass (kg)	3.68	0	0	0	0	0	0
WW Mass (kg)	0	4.24	4.24	4.24	4.24	4.24	4.24
WW Solids Mass (kg)	0	0.57	0.57	0.57	0.57	0.57	0.57
w/c Ratio	0.42	0.41	0.41	0.41	0.41	0.41	0.41

Figure 110

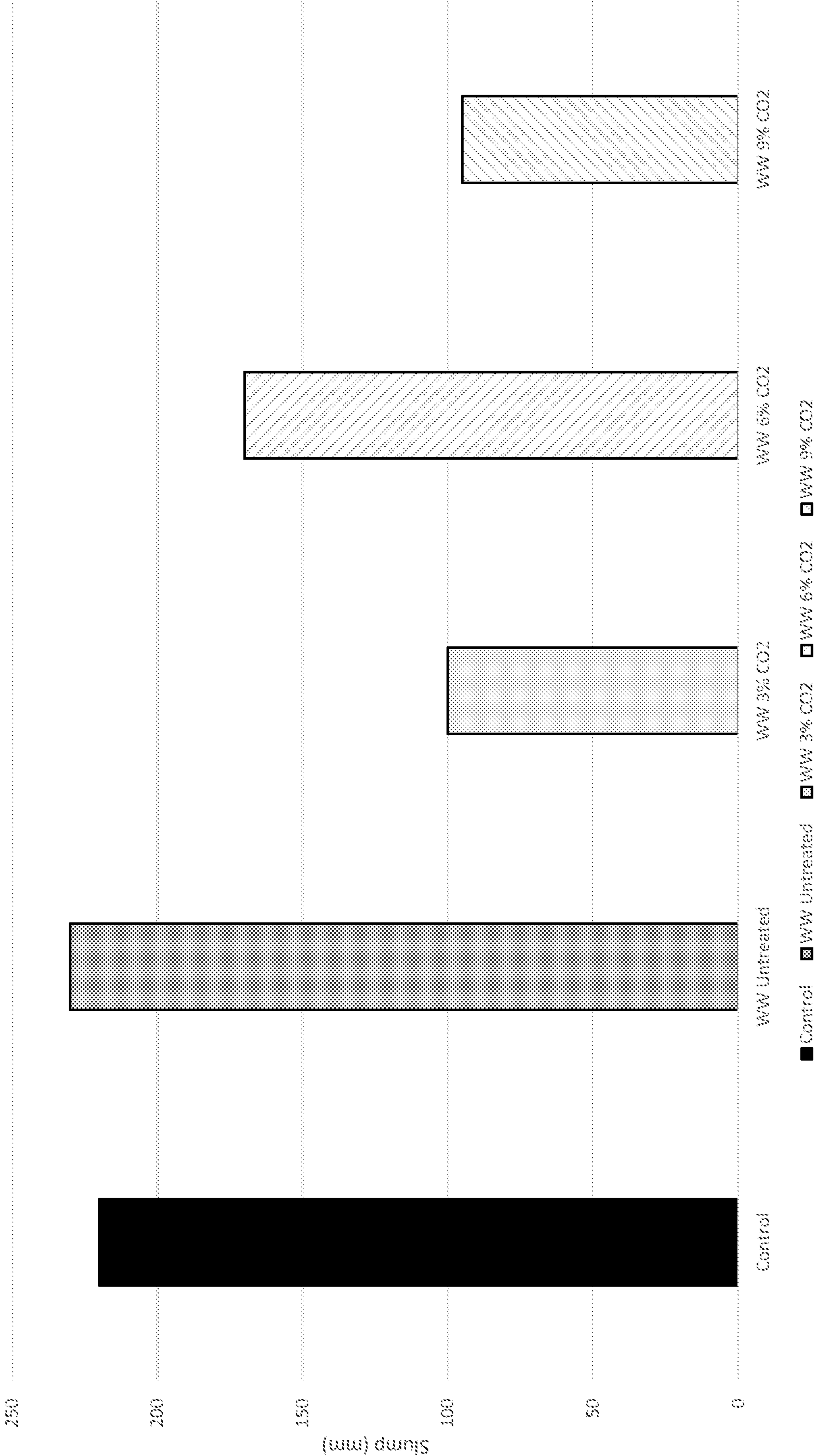


Figure 111

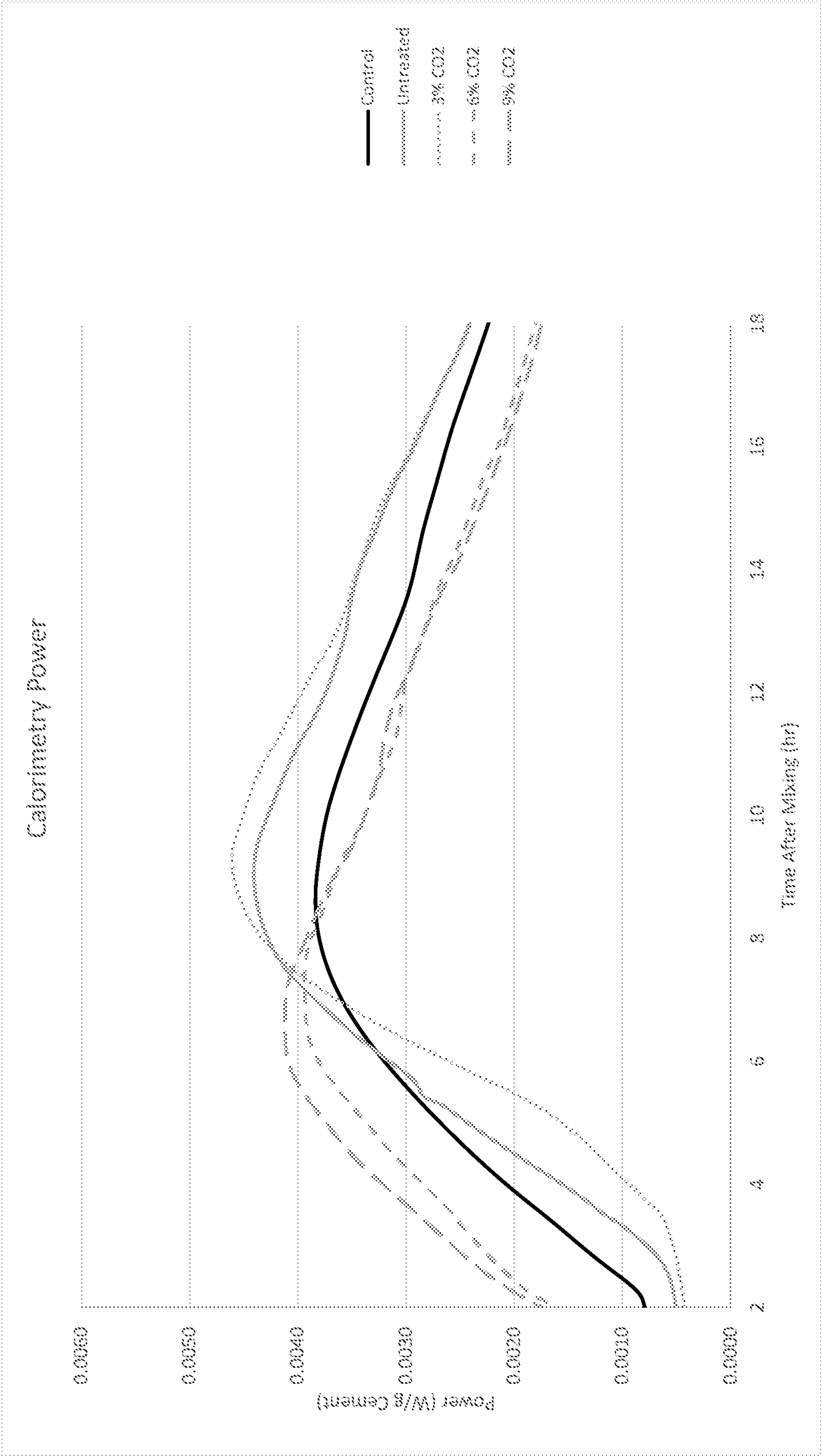


Figure 112

Compressive Strength

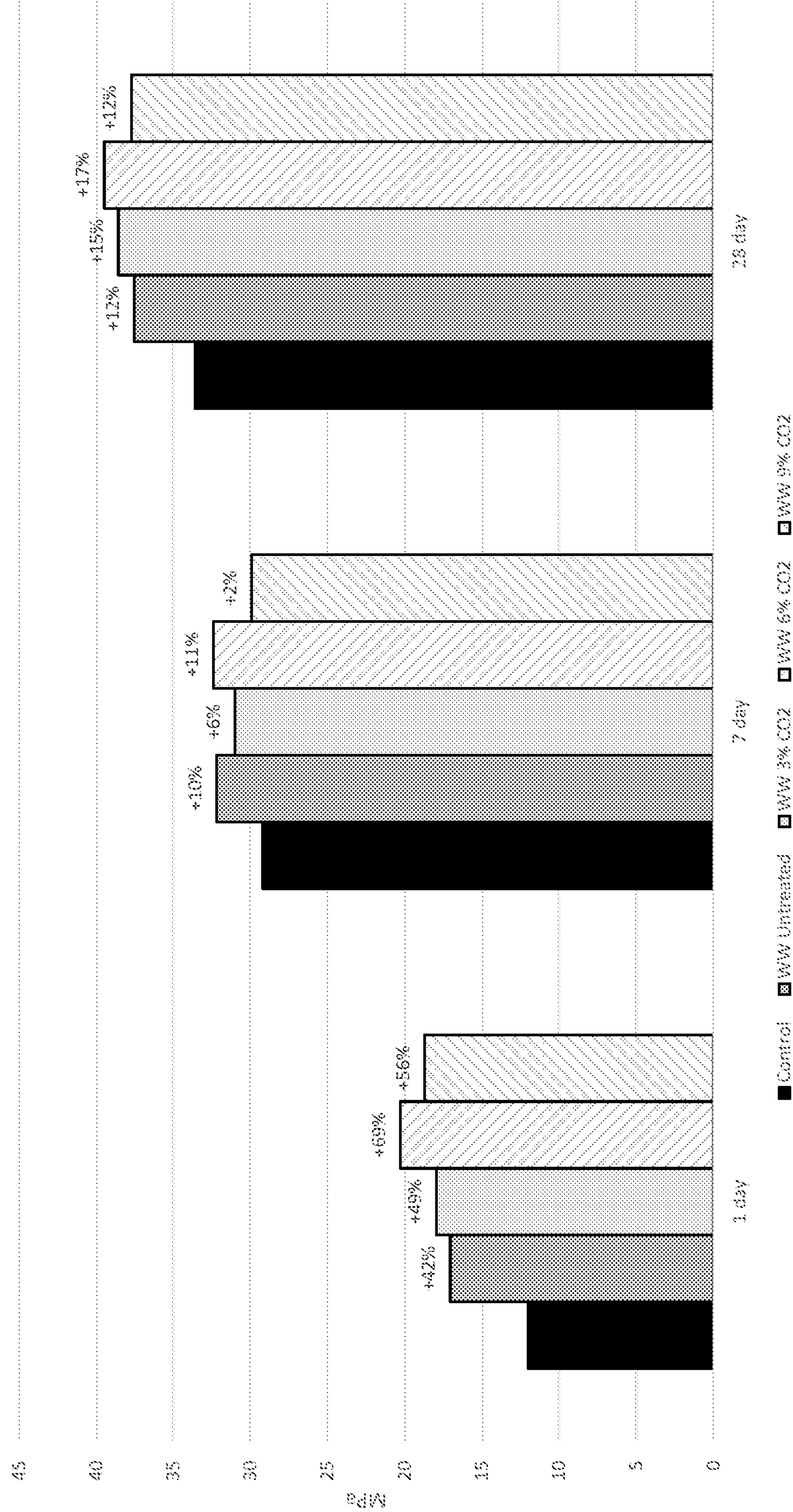


Figure 113

Batch ID	Control	WWUT	3% WWT	6% WWT	9% WWT
Cement Mass (kg)	6.82	6.82	6.82	6.82	6.82
Coarse Aggregate Mass (kg)	23.85	23.85	23.85	23.85	23.85
Sand Mass (kg)	17.21	17.21	17.21	17.21	17.21
Water Mass (kg)	3.57	0	0	0	0
WW Mass (kg)	0	4.12	4.12	4.12	4.12
WW Solids Mass (kg)	0	0.55	0.55	0.55	0.55
w/c Ratio	0.63	0.58	0.58	0.58	0.58

Figure 114

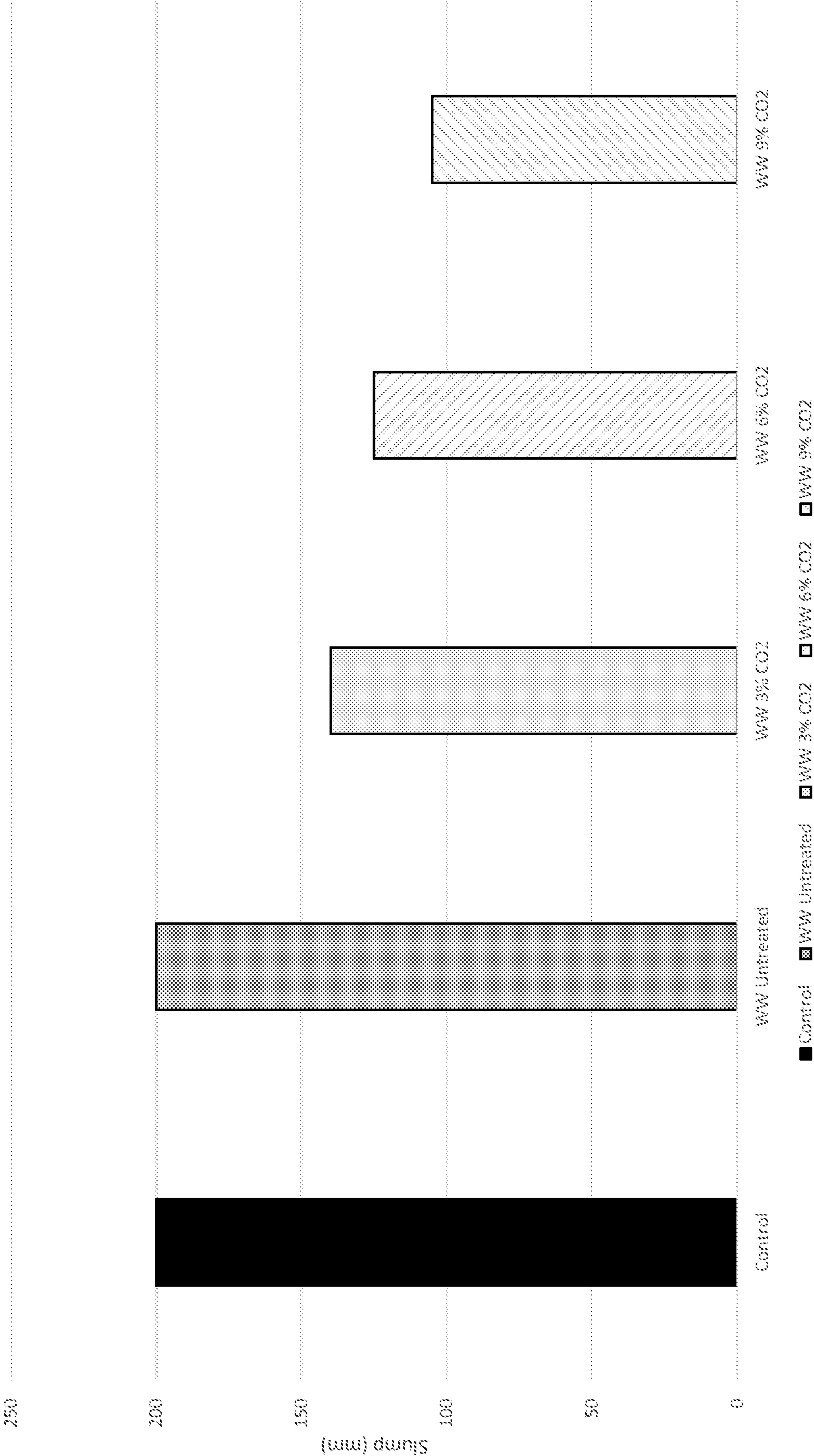


Figure 115

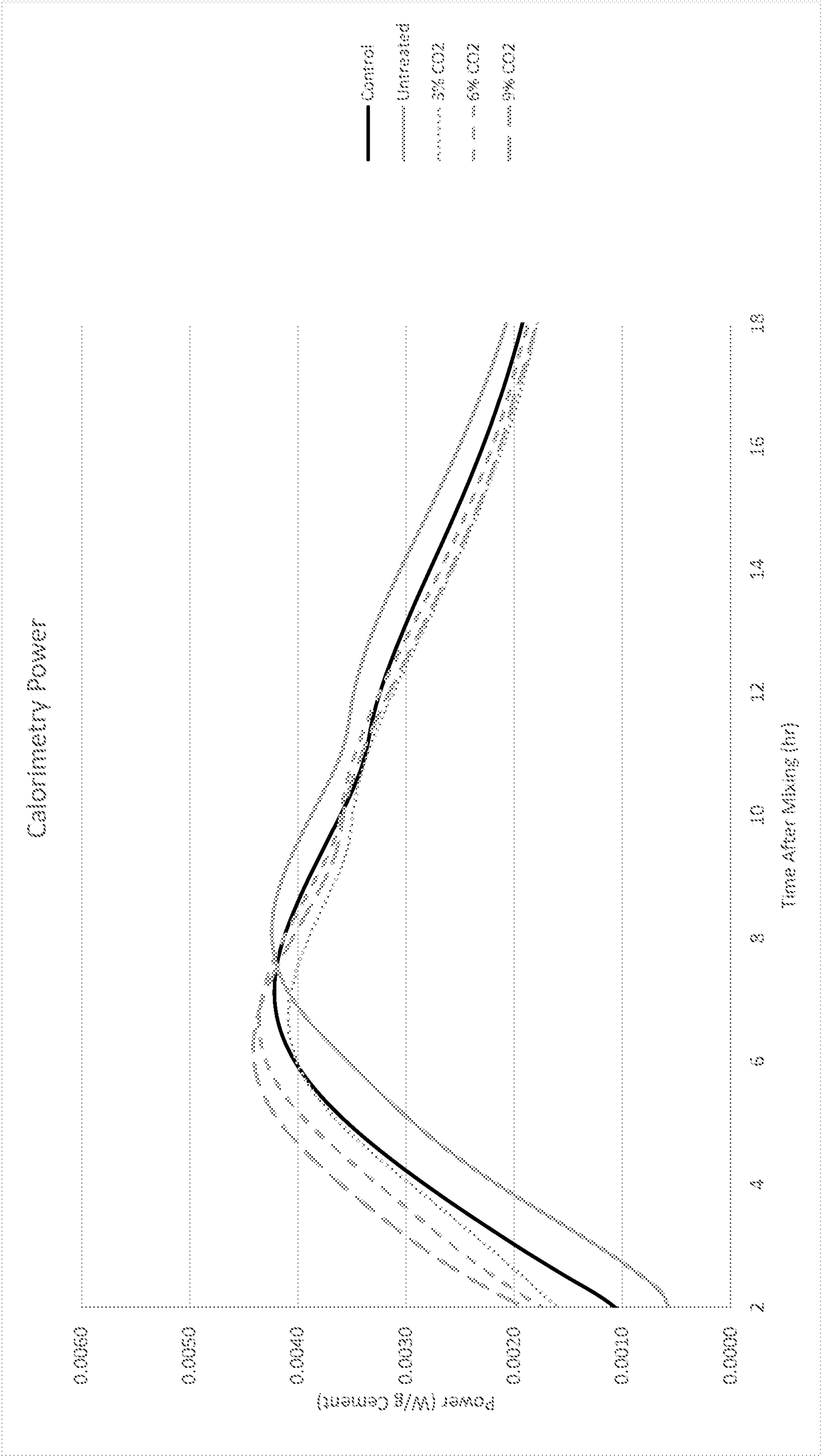


Figure 116
Compressive Strength

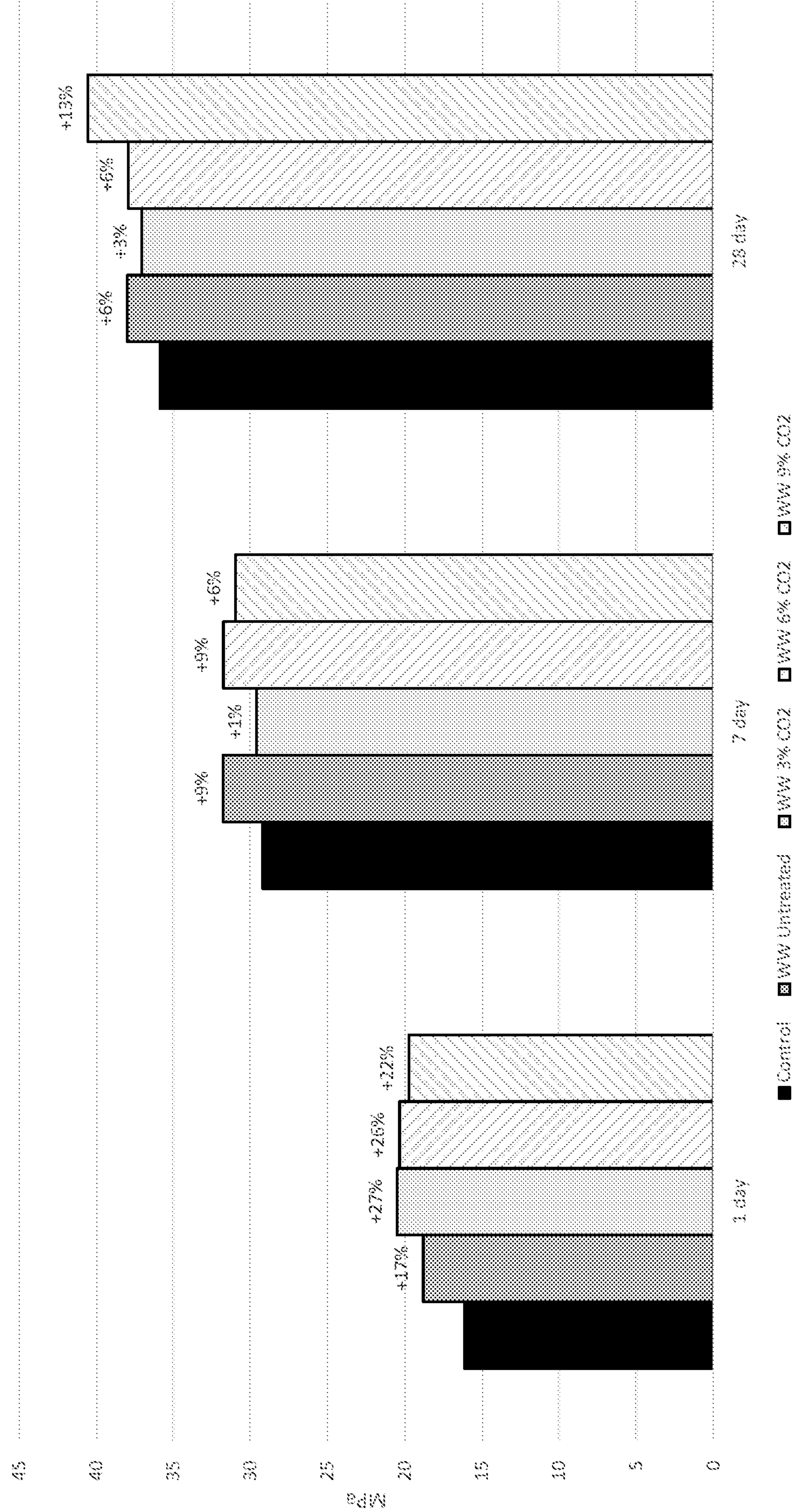


Figure 117

Batch ID	Control	WWUT	3% WWT	6% WWT	9% WWT
Cement Mass (kg)	6.82	6.82	6.82	6.82	6.82
Coarse Aggregate Mass (kg)	23.85	23.85	23.85	23.85	23.85
Sand Mass (kg)	17.21	17.21	17.21	17.21	17.21
Water Mass (kg)	3.57	0	0	0	0
WW Mass (kg)	0	4.12	4.12	4.12	4.12
WW Solids Mass (kg)	0	0.55	0.55	0.55	0.55
w/c Ratio	0.63	0.58	0.58	0.58	0.58

Figure 118

Workability

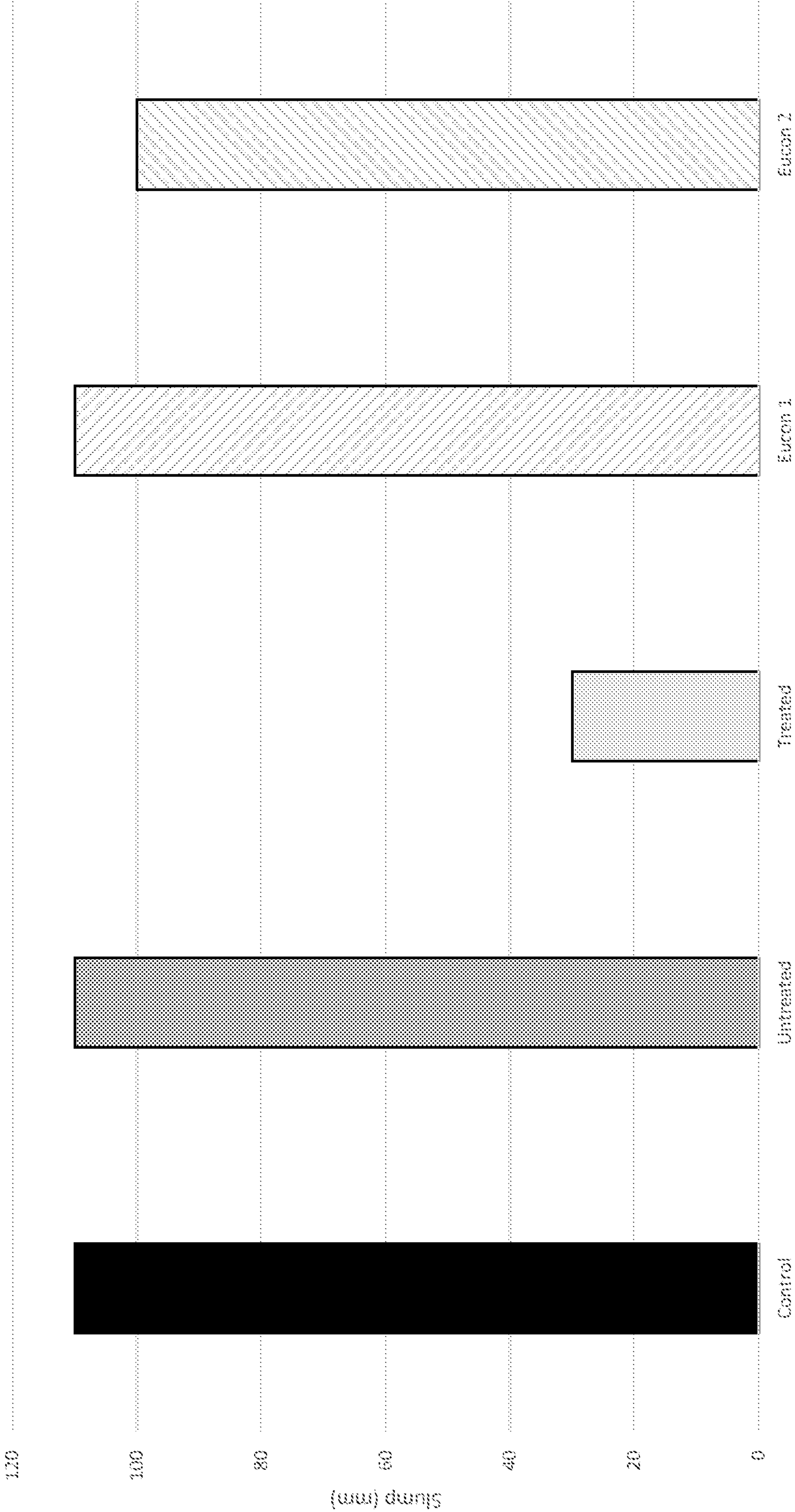


Figure 119

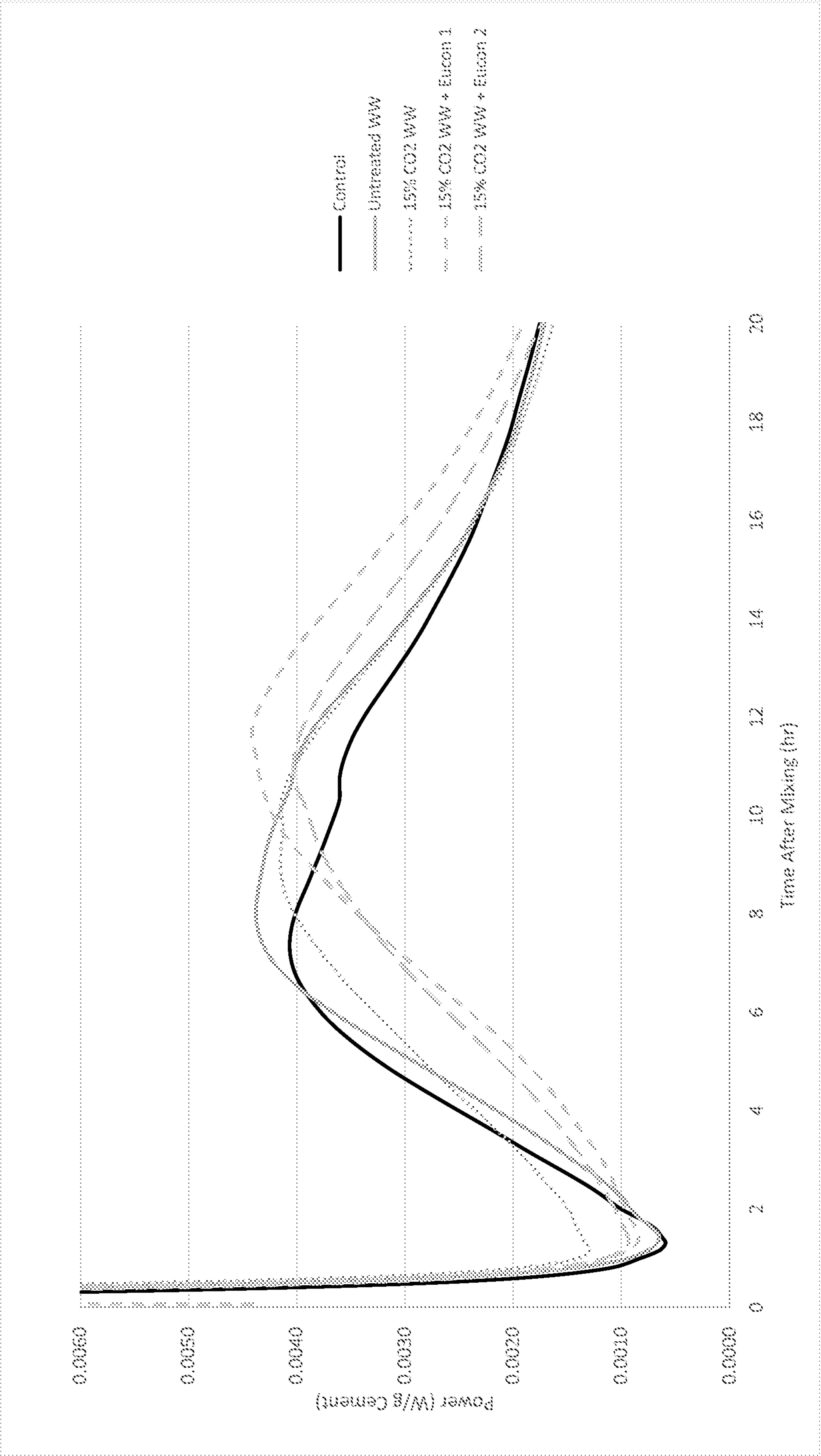


Figure 120

Compressive Strength

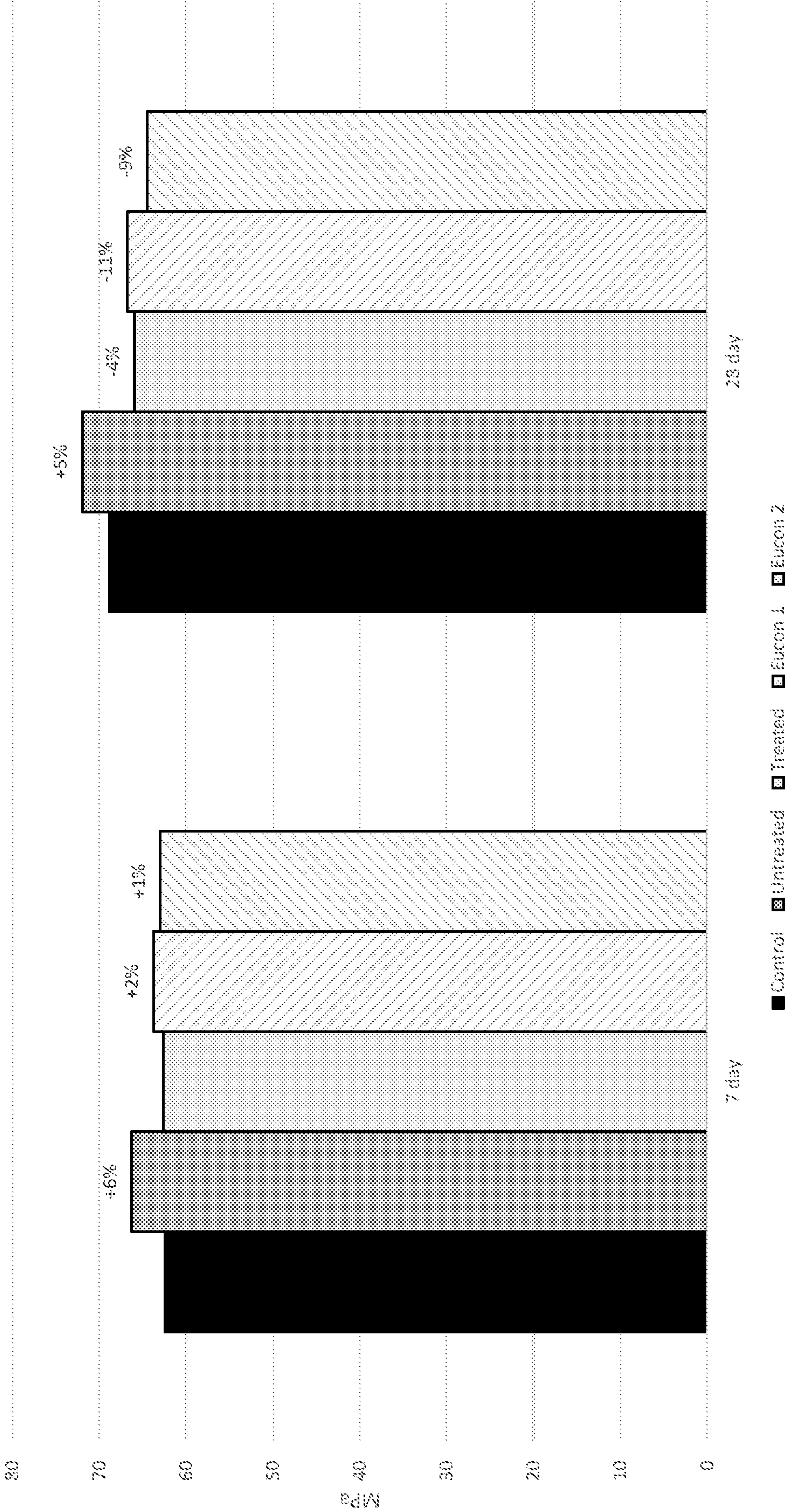


Figure 121

Batch ID	Control	WWJT	WWT	WWT + Eucon 1	WWT + Eucon 2
Cement Mass (g)	535	535	535	535	535
Sand Mass (g)	1350	1350	1350	1350	1350
Water Mass (g)	267.5	0	0	0	0
WW Mass (g)	0	308.6	308.6	308.6	308.6
WW Solids Mass (g)	0	41.1	41.1	41.1	41.1
w/c Ratio	0.5	0.5	0.5	0.5	0.5

Figure 122

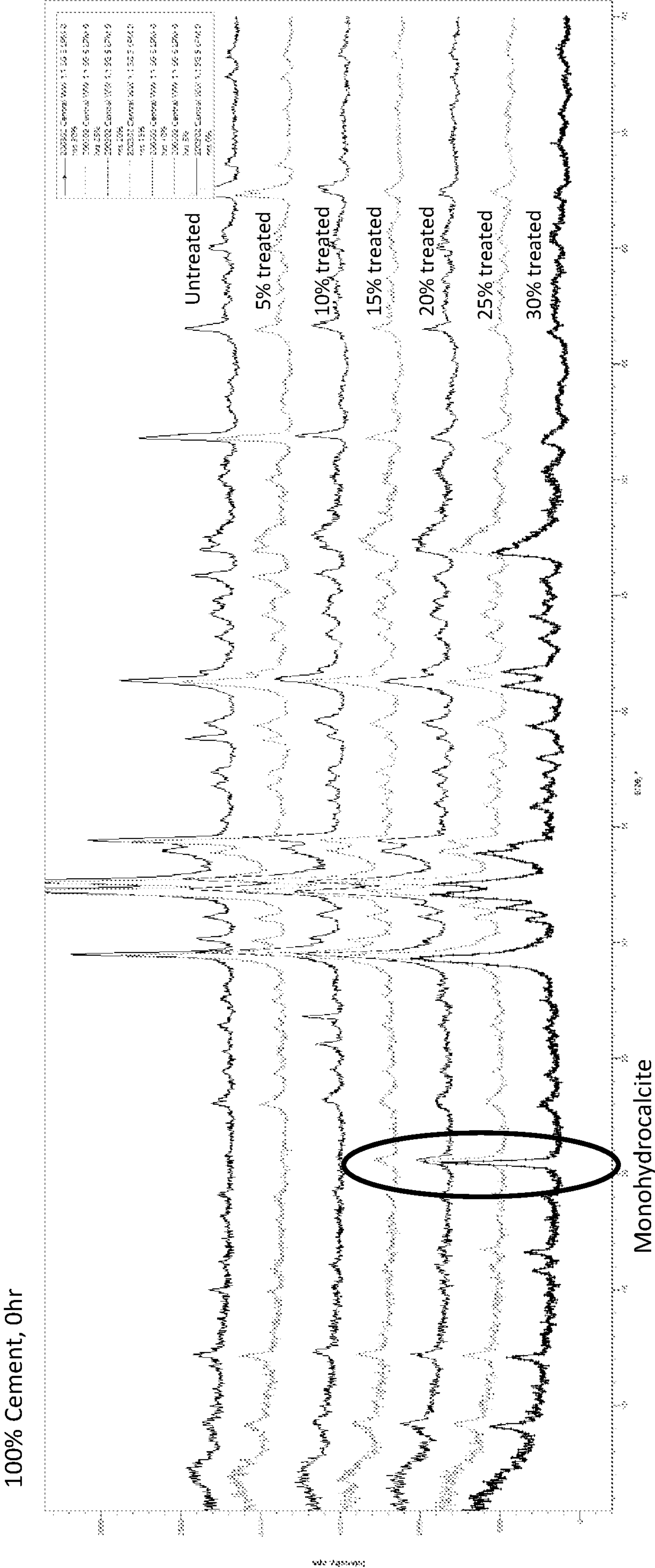


Figure 123

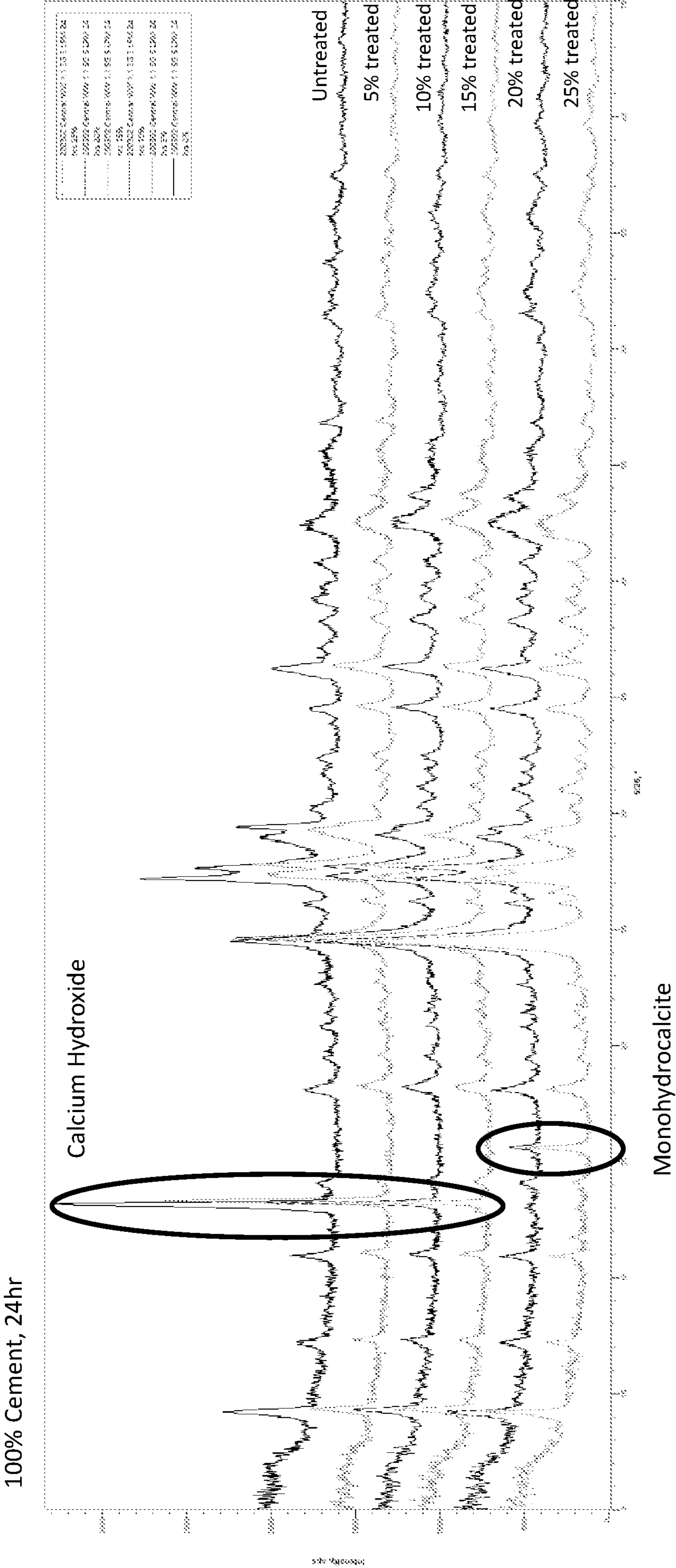


Figure 124

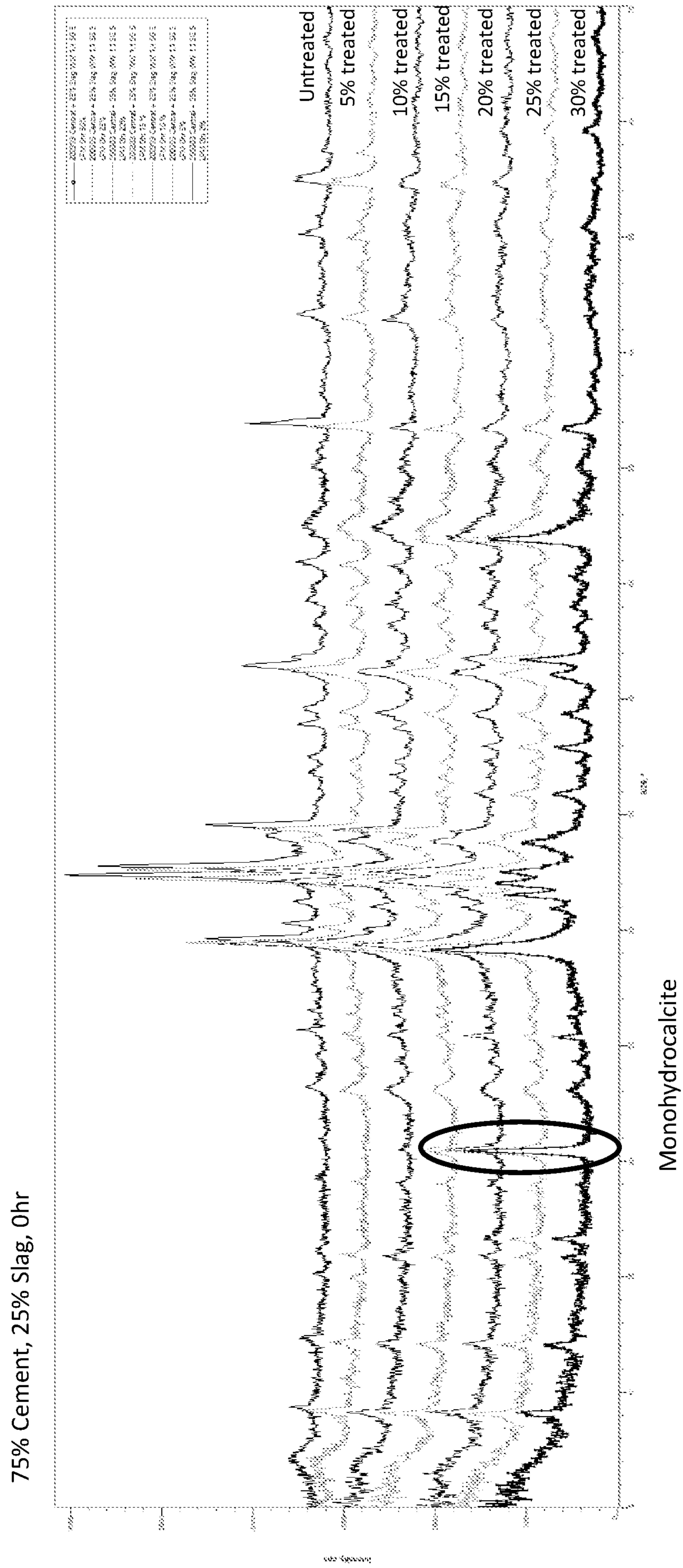


Figure 125

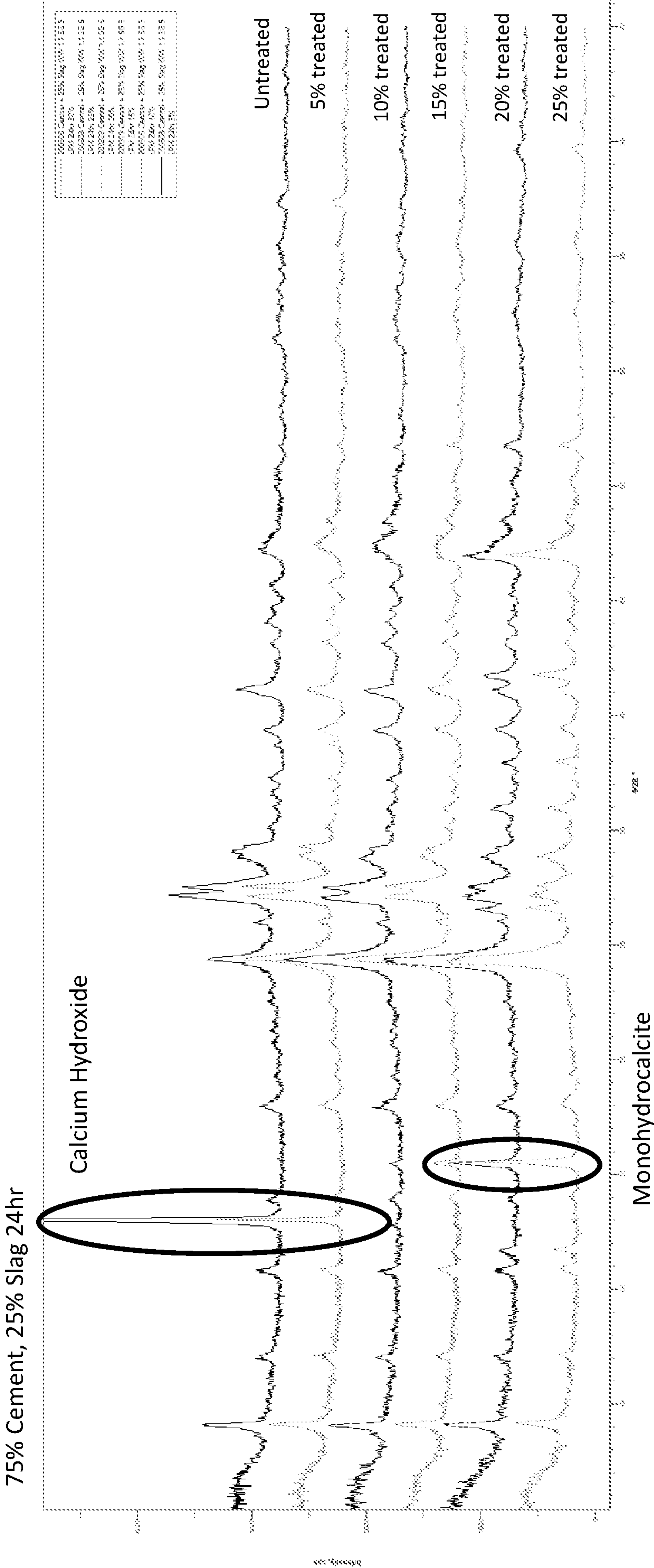


Figure 126

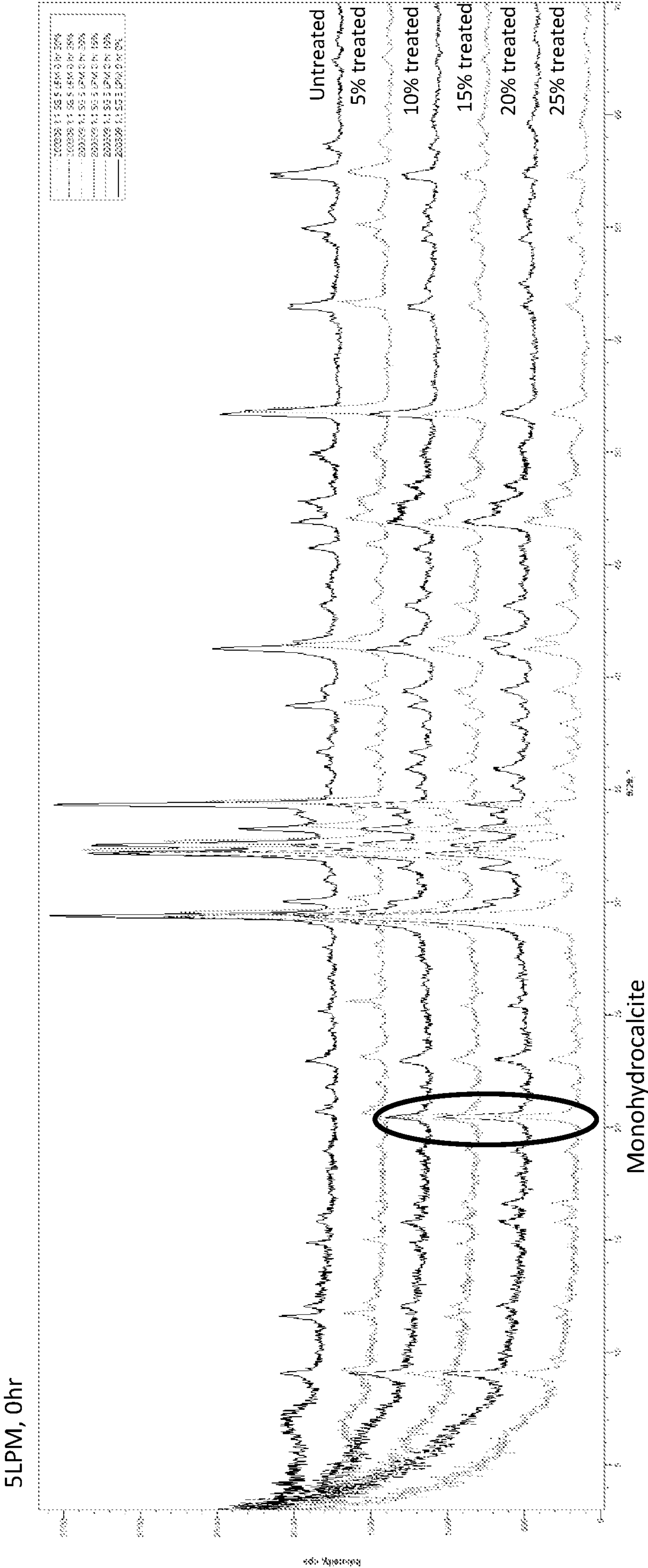


Figure 127

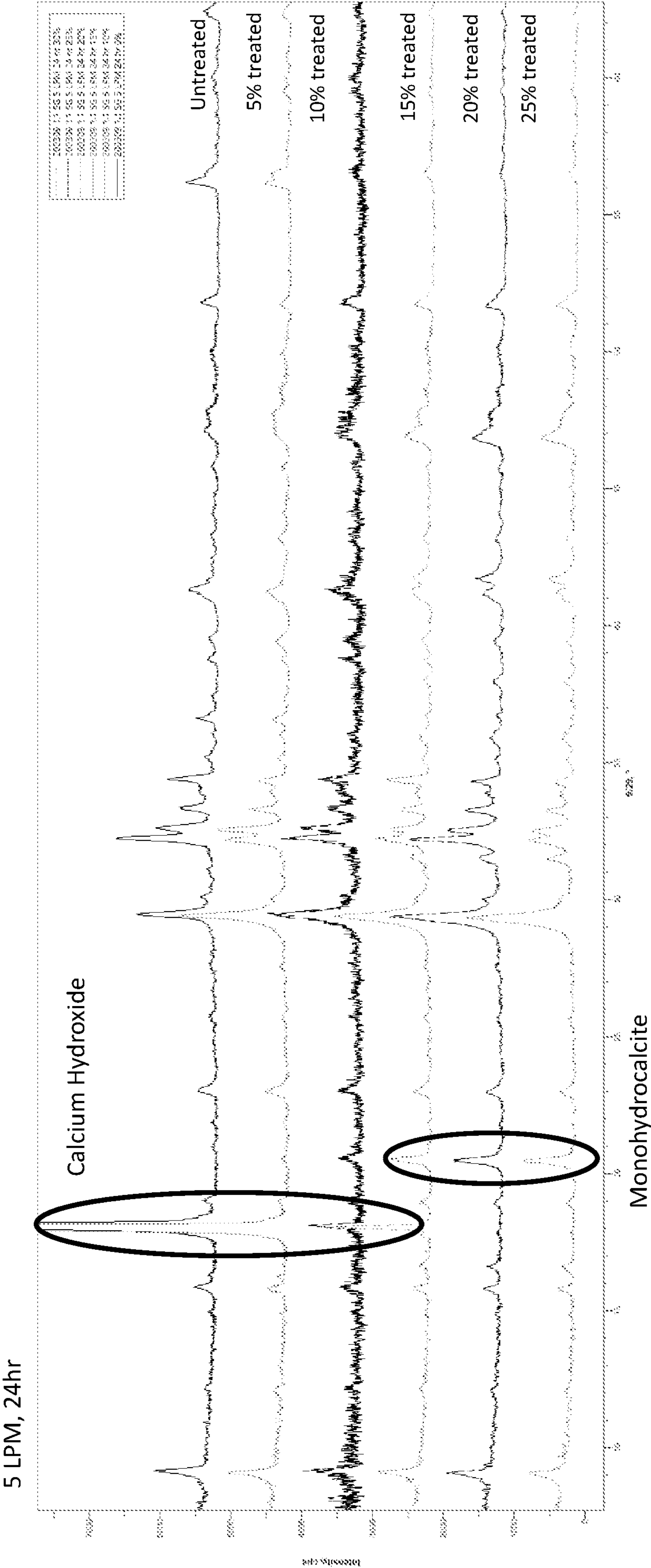


Figure 128

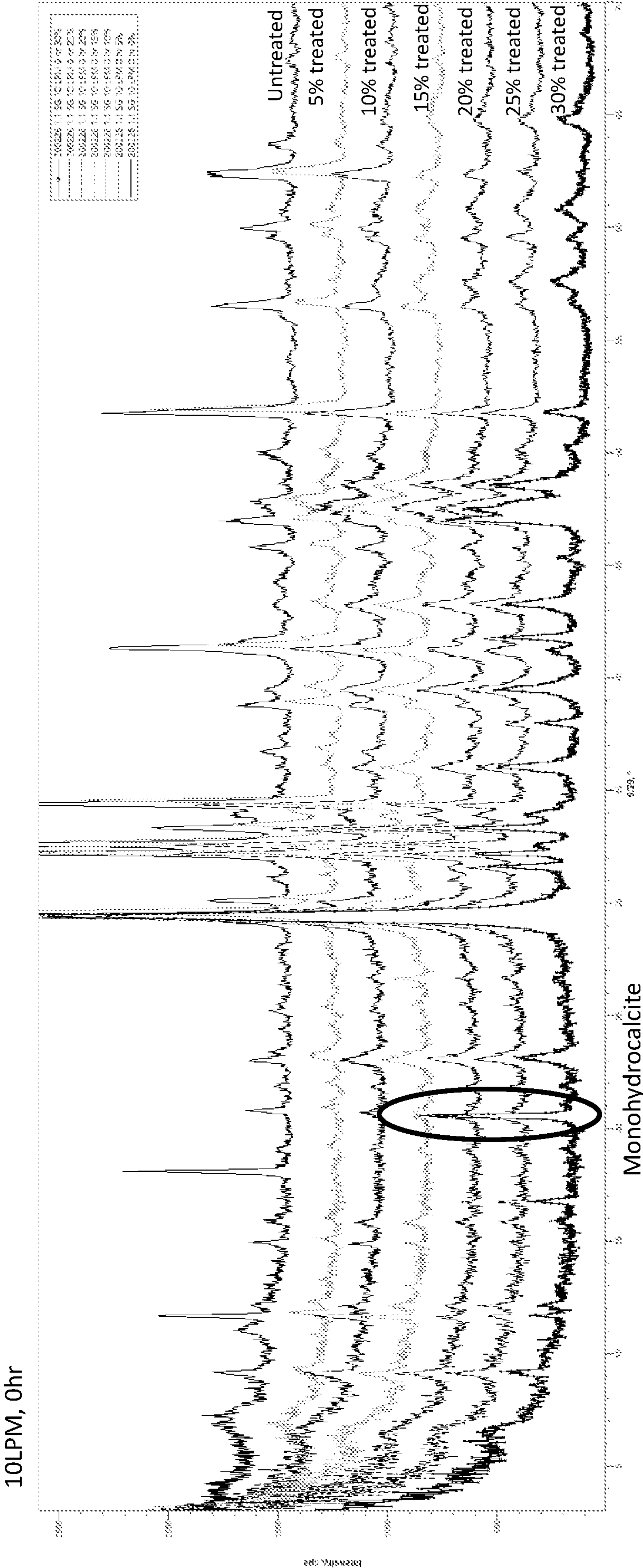


Figure 129

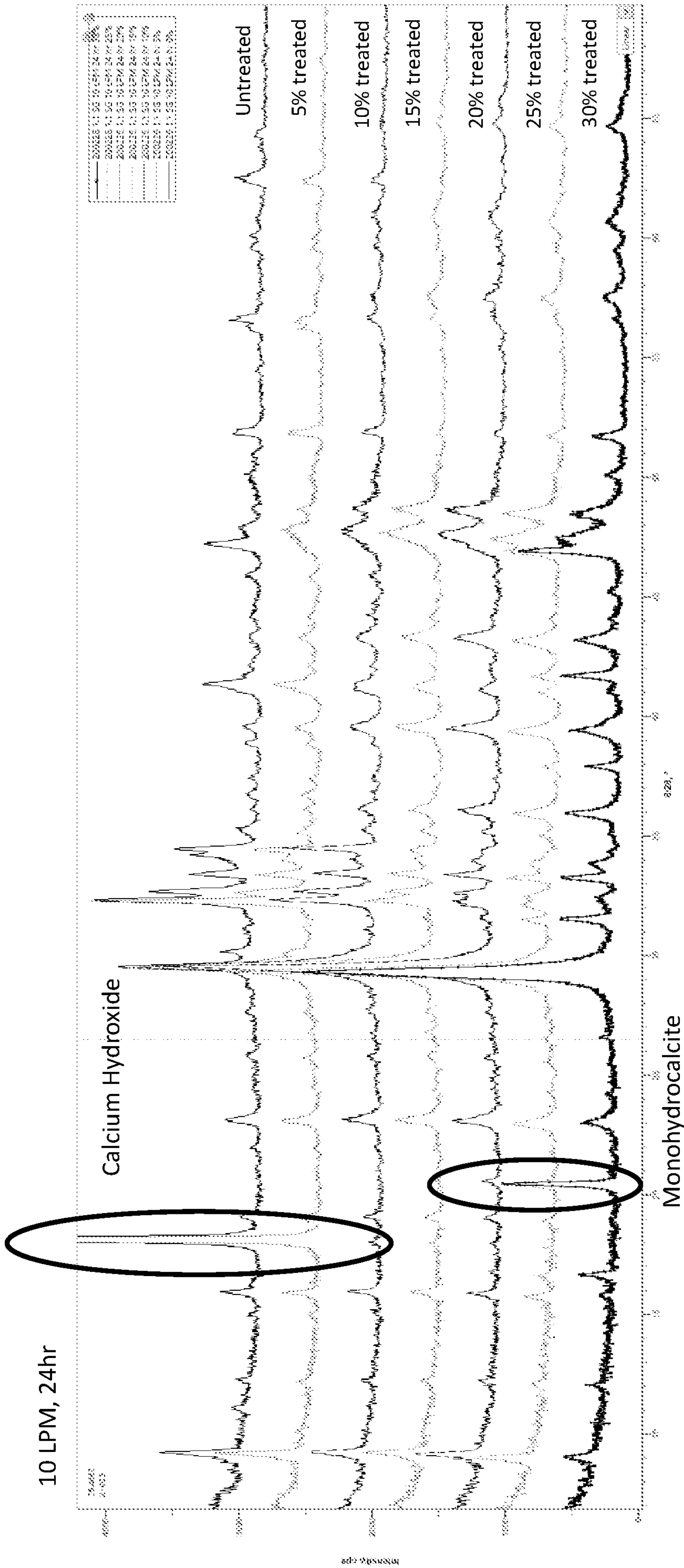


Figure 130

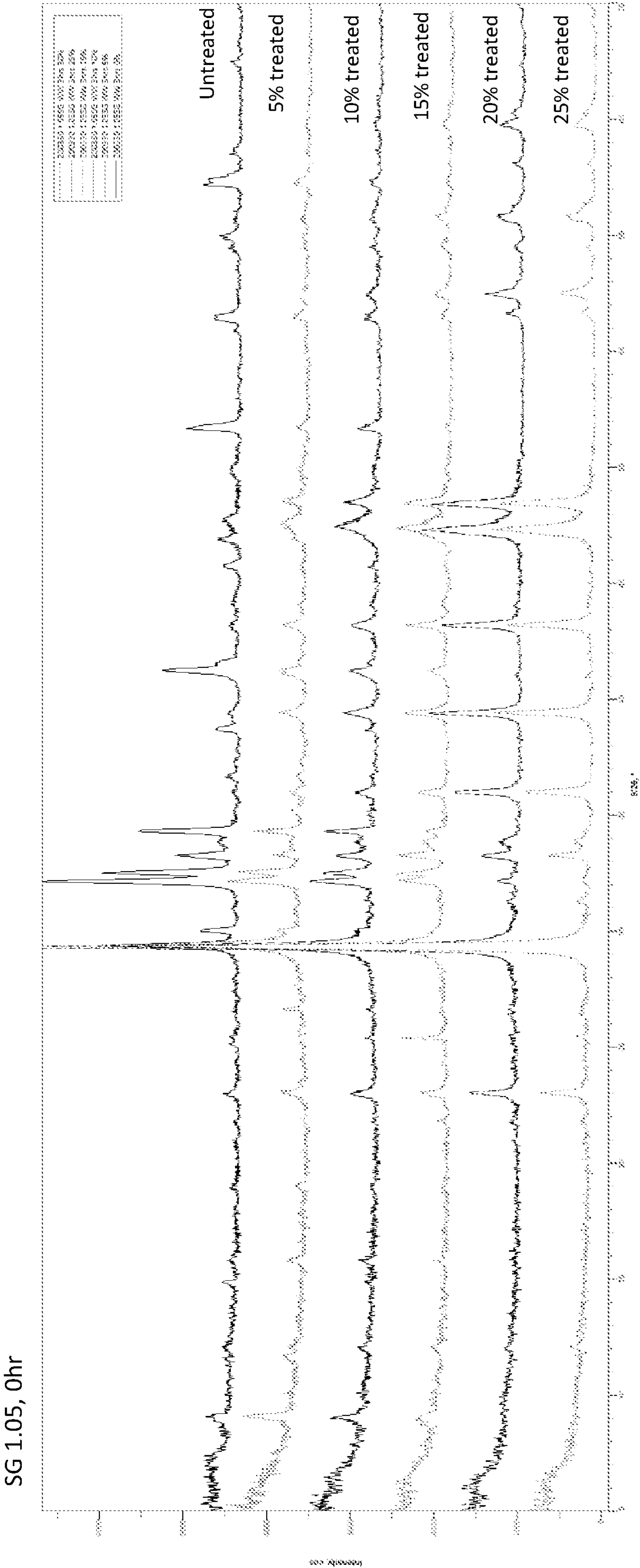


Figure 131

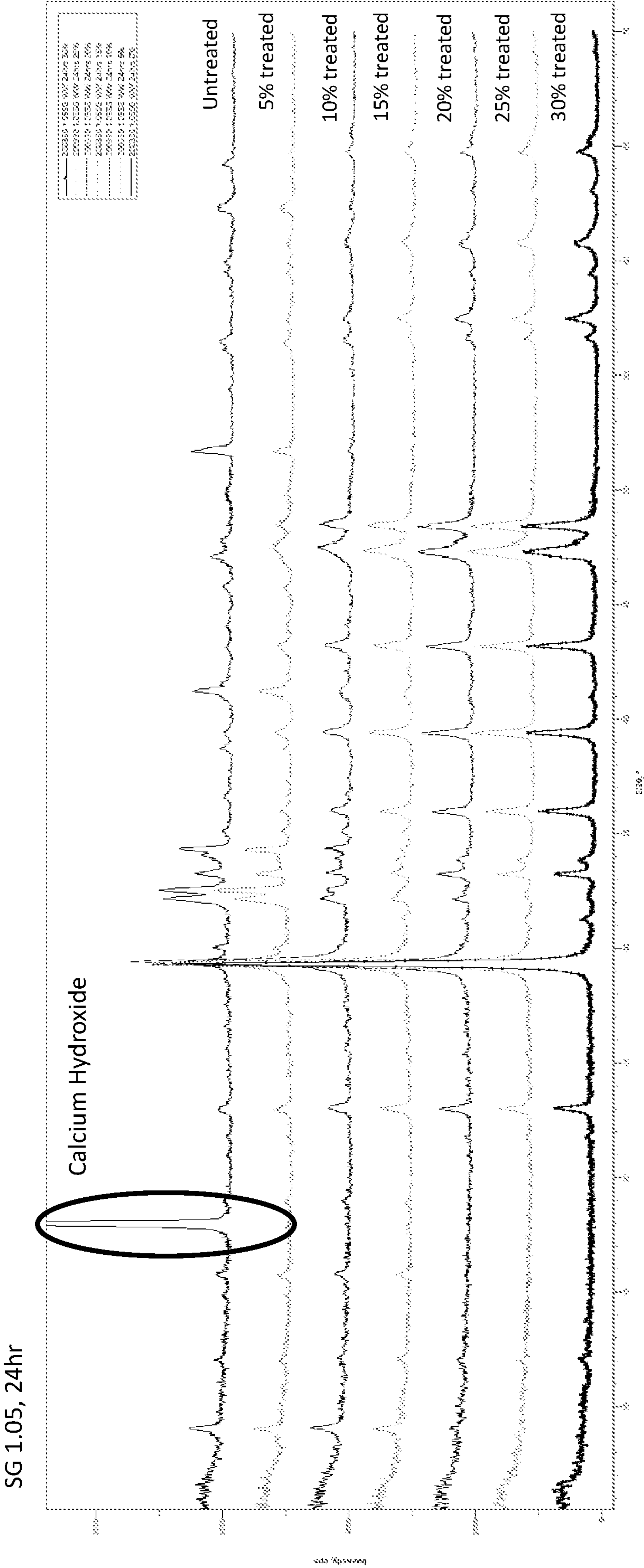


Figure 132

SG 1.05, 48hr

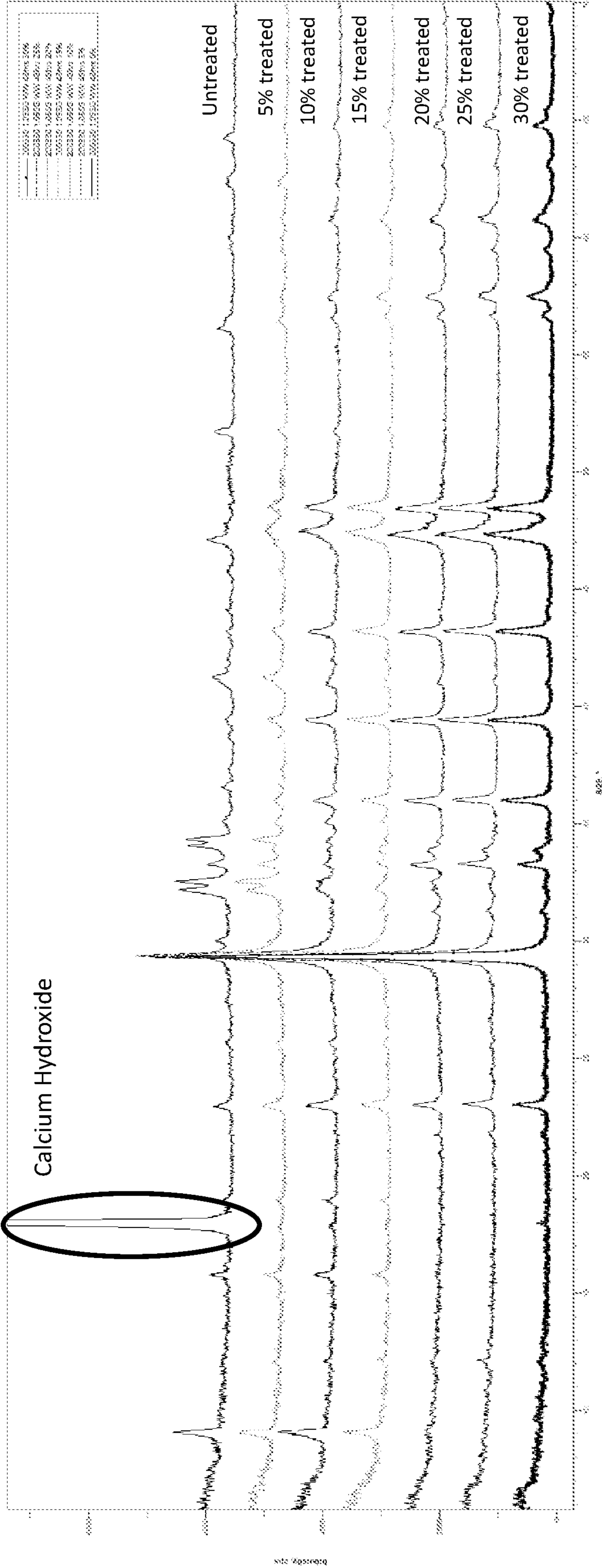


Figure 133

SG 1.15, 0hr

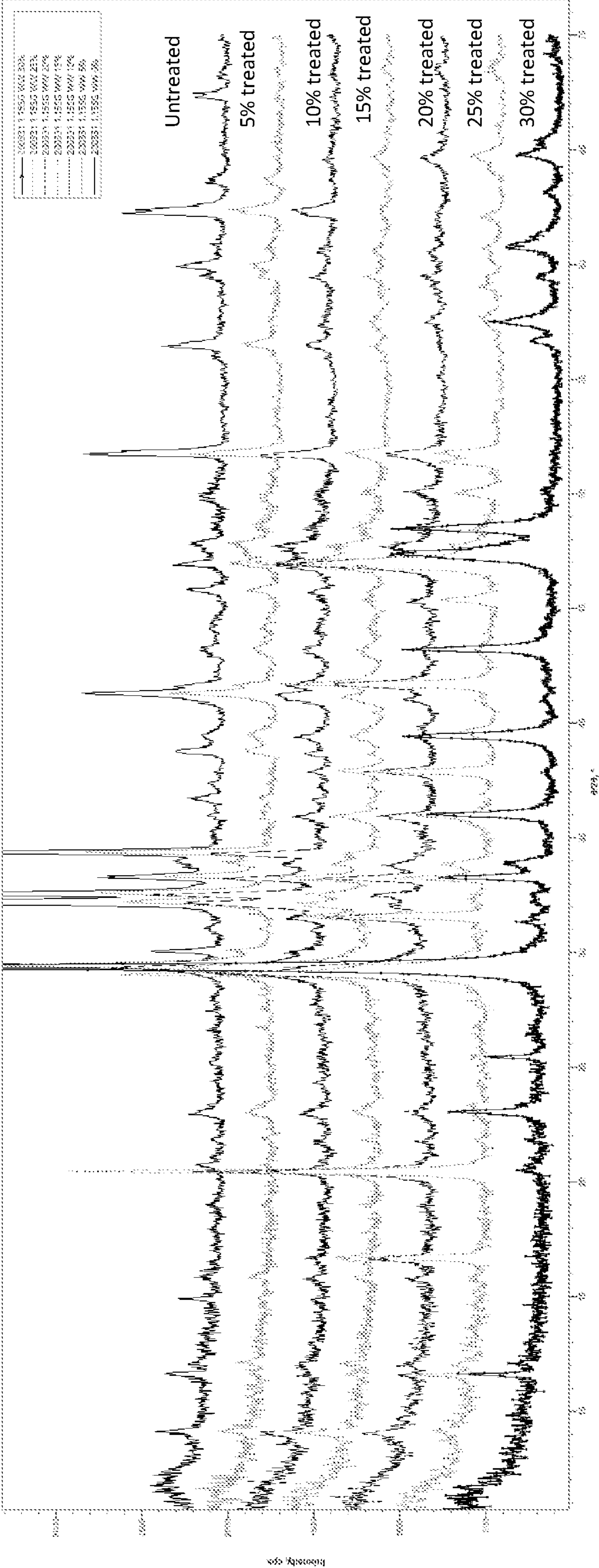


Figure 134

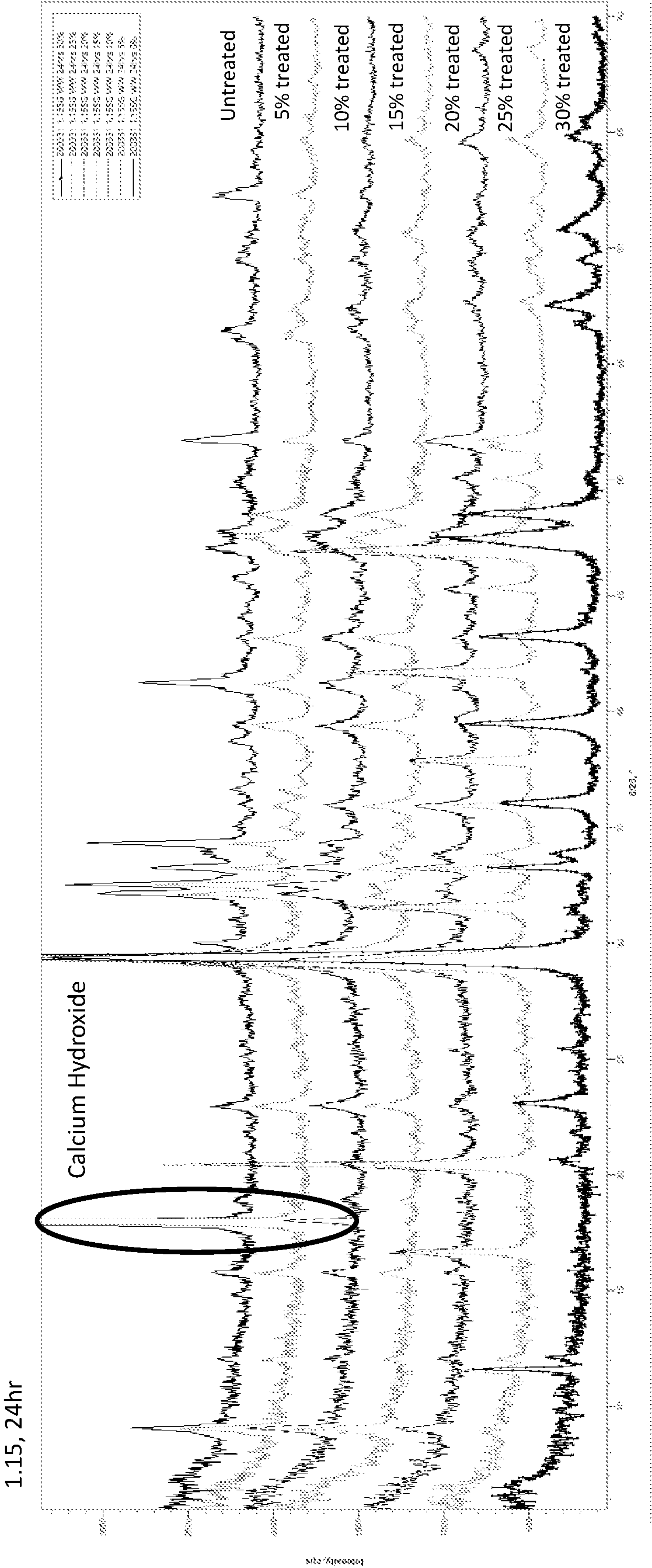


Figure 135

