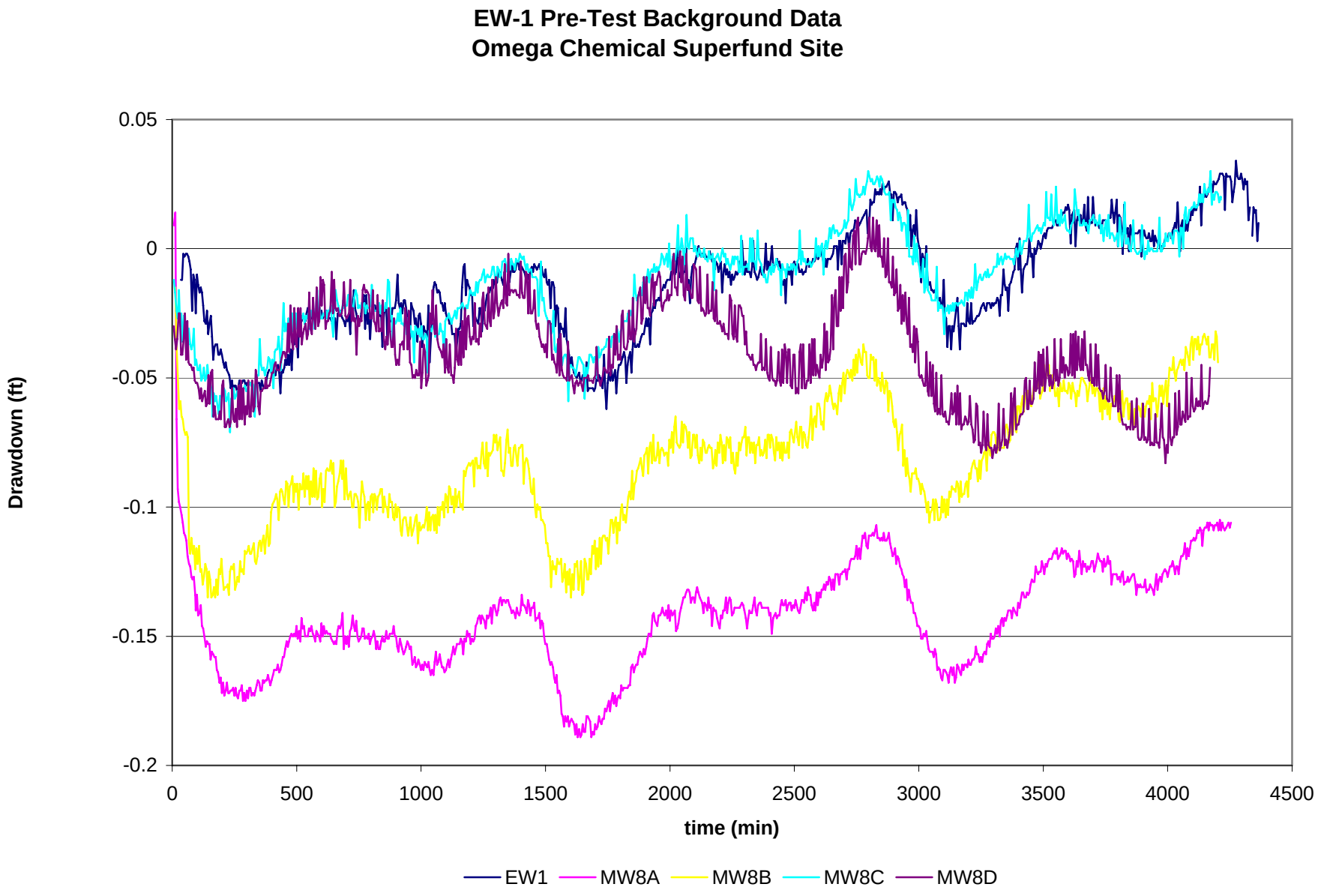
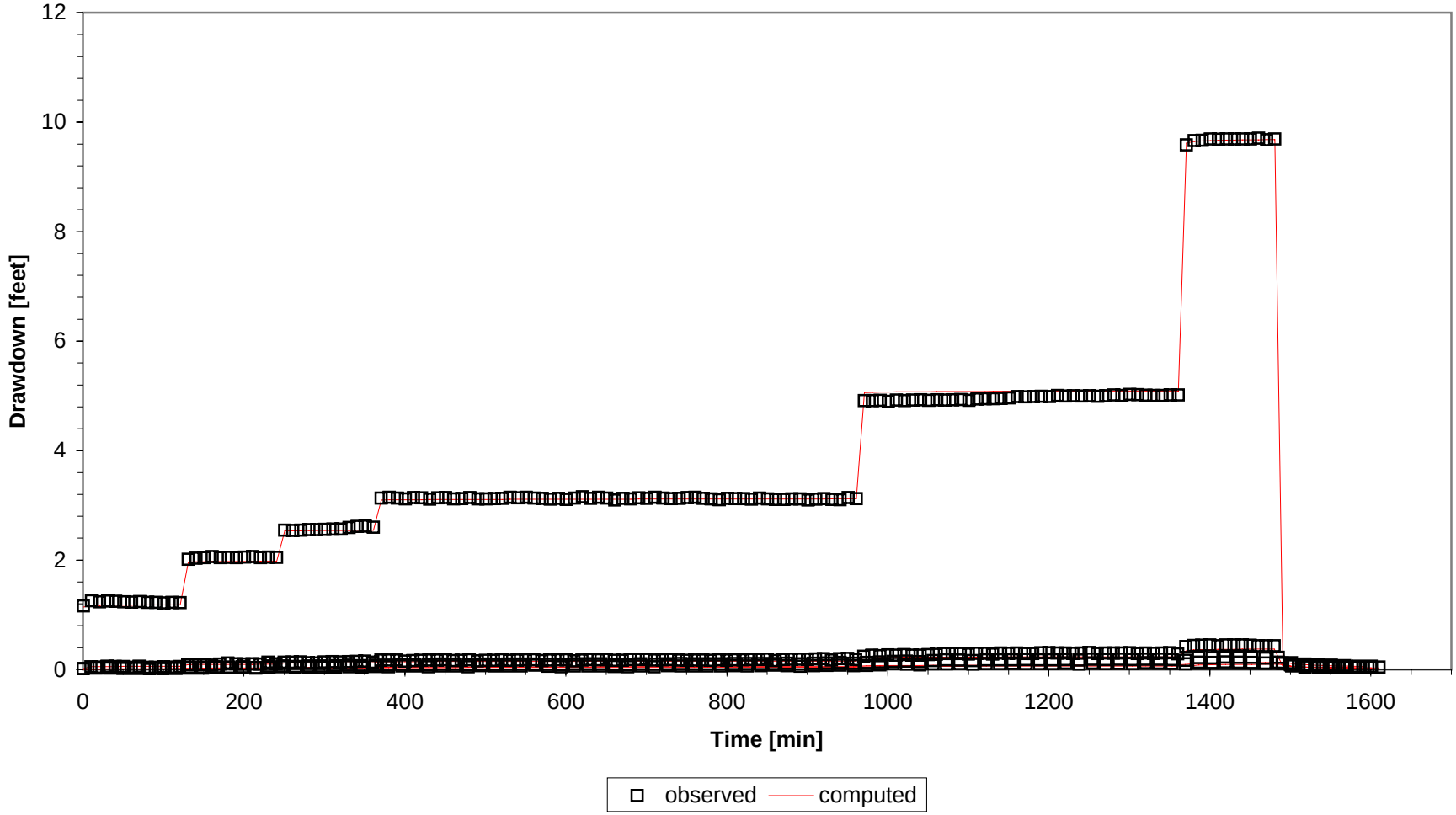
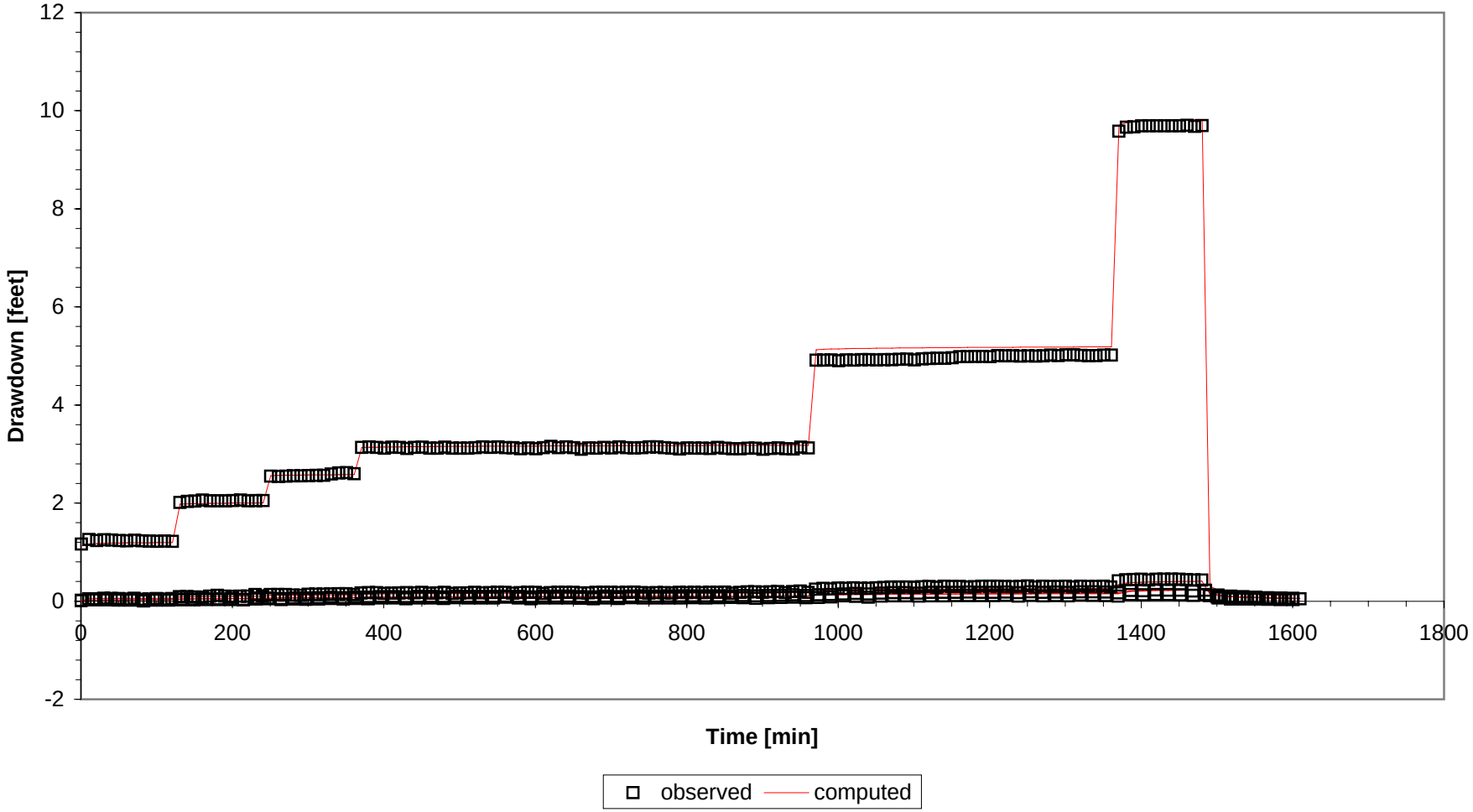

EW-1 Pre-Test Background Data
Omega Chemical Superfund Site
Drawdown (ft)
0.05
0
-0.05
-0.1
-0.15
-0.2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
time (min)
EW1
MW8A
MW8B
MW8C
MW8D

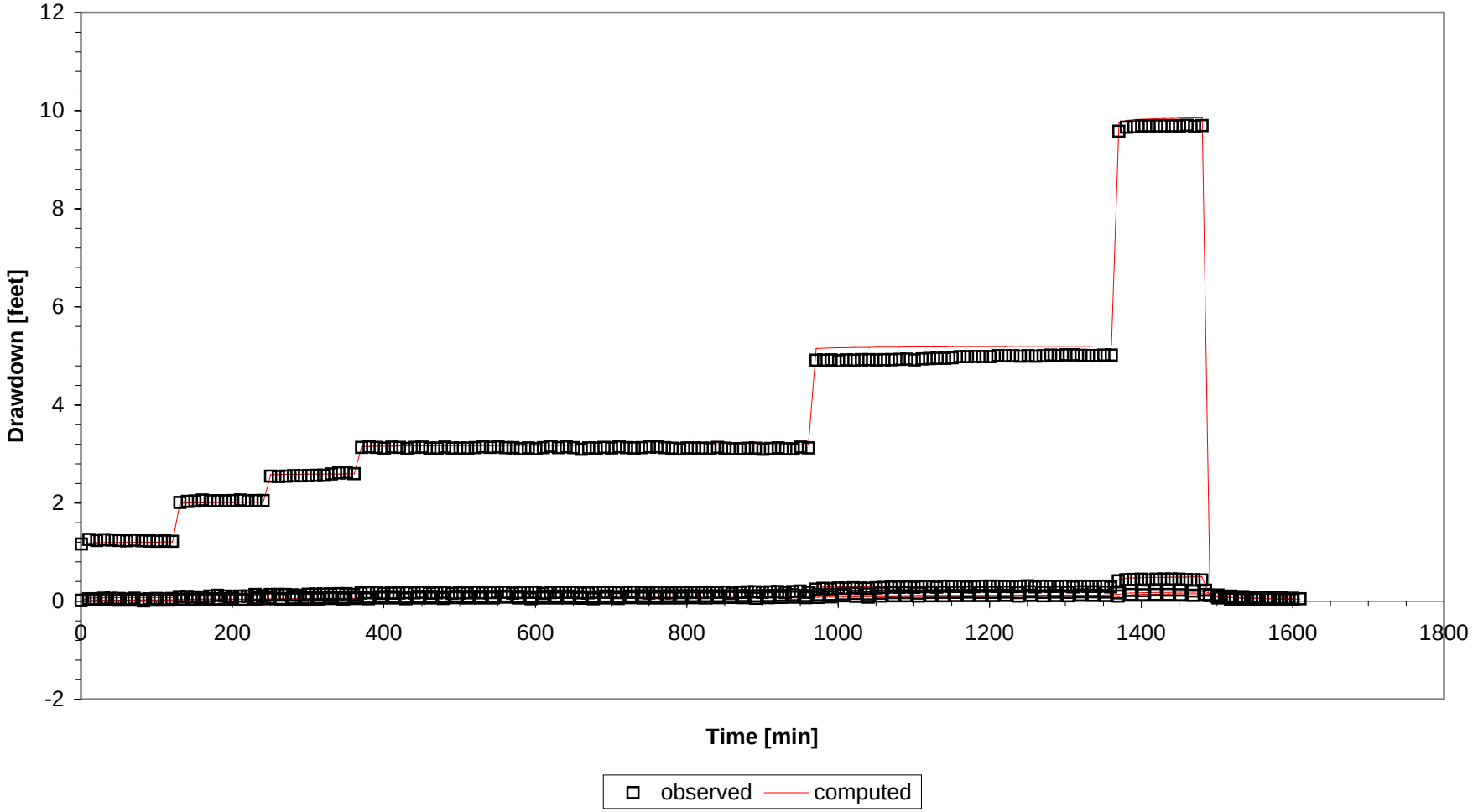
EW1 Pumping Test - Results from GWF
Omega Chemical Superfund Site
11-20-06 to 11-21-06
Kr=404 ft/day



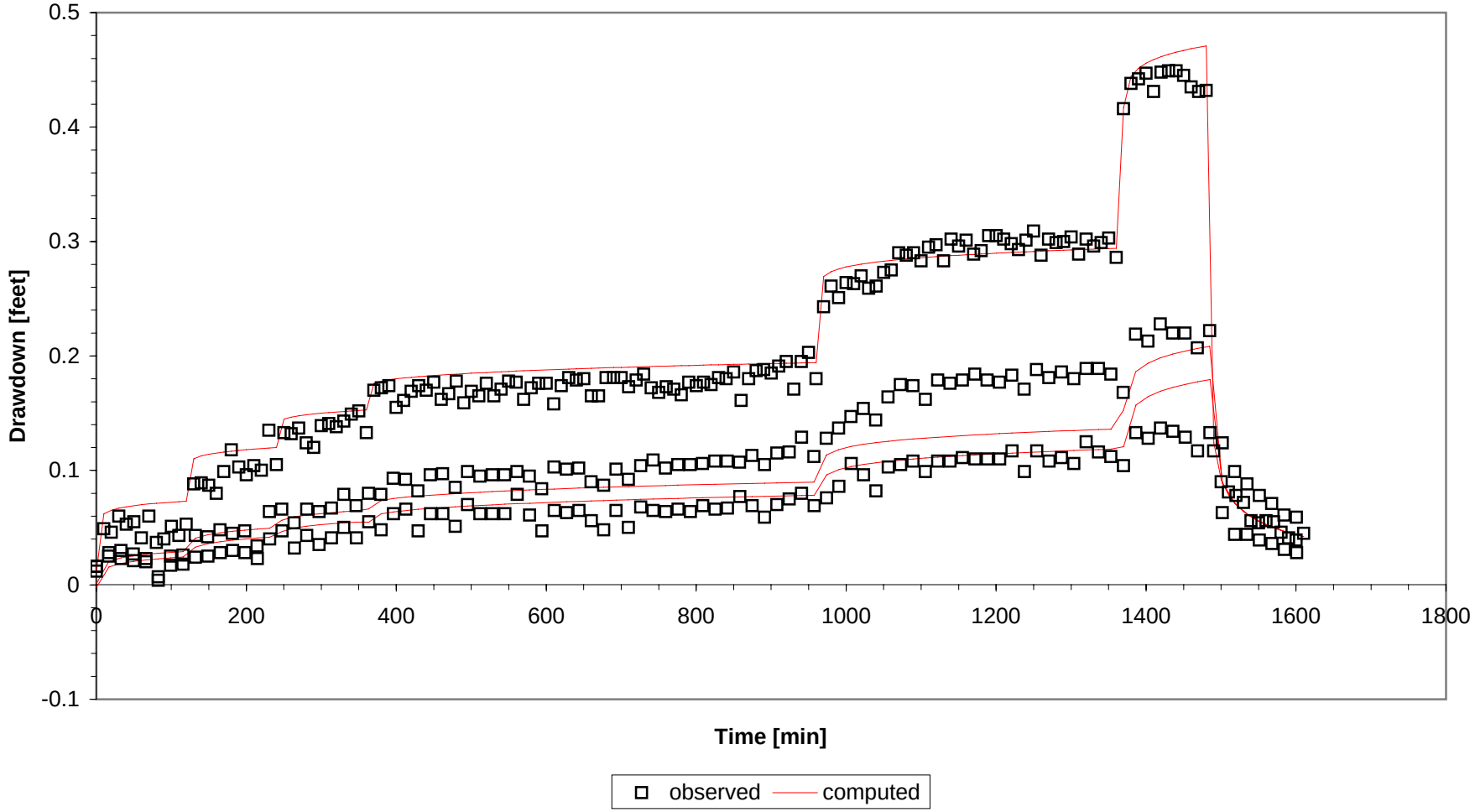
EW1 Pumping Test - Results from GWF
Omega Chemical Superfund Site
11-20-06 to 11-21-06
Kr=198 ft/day



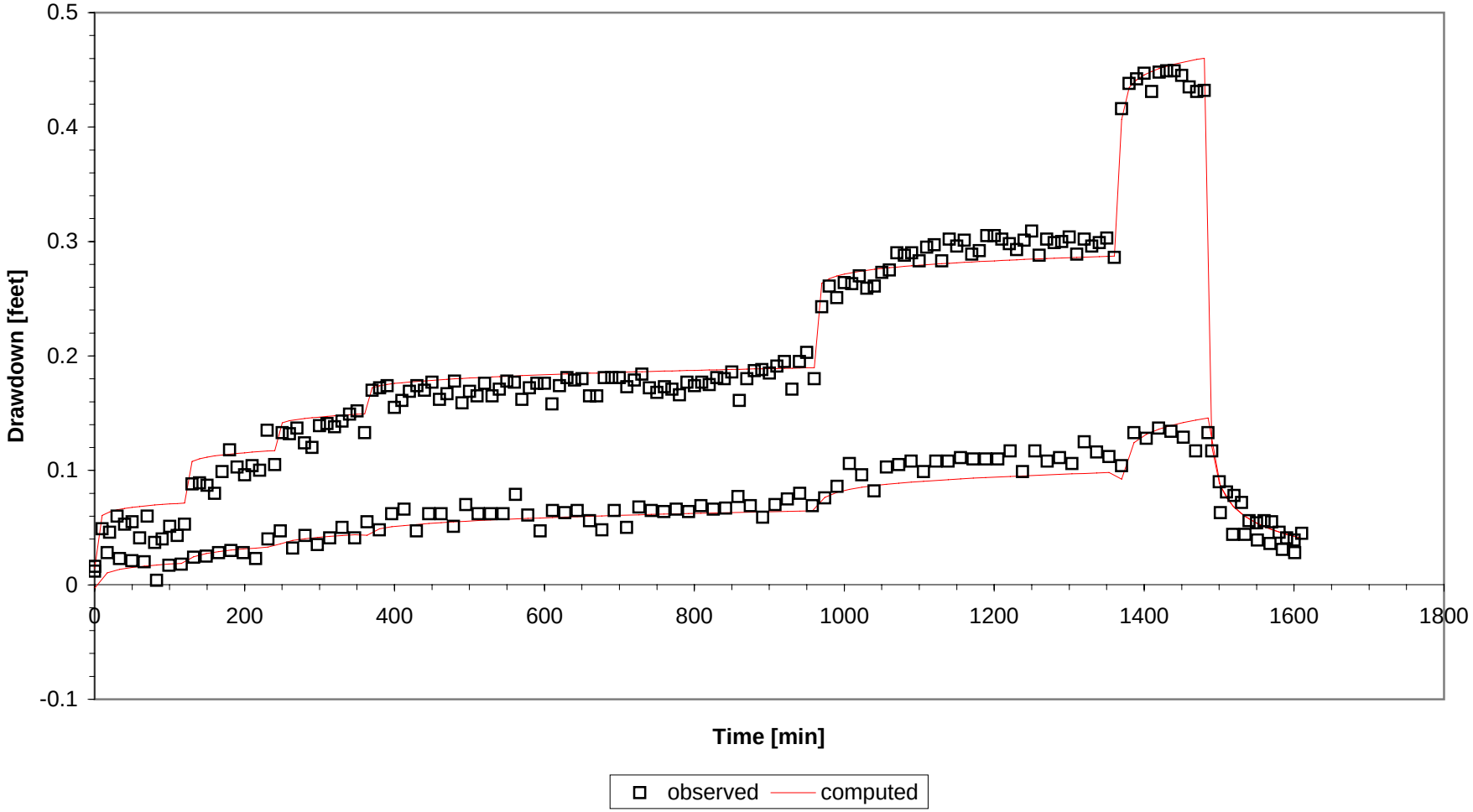
EW1 Pumping Test - Results from GWF
Omega Chemical Superfund Site
11-20-06 to 11-21-06
Kr=252 ft/day



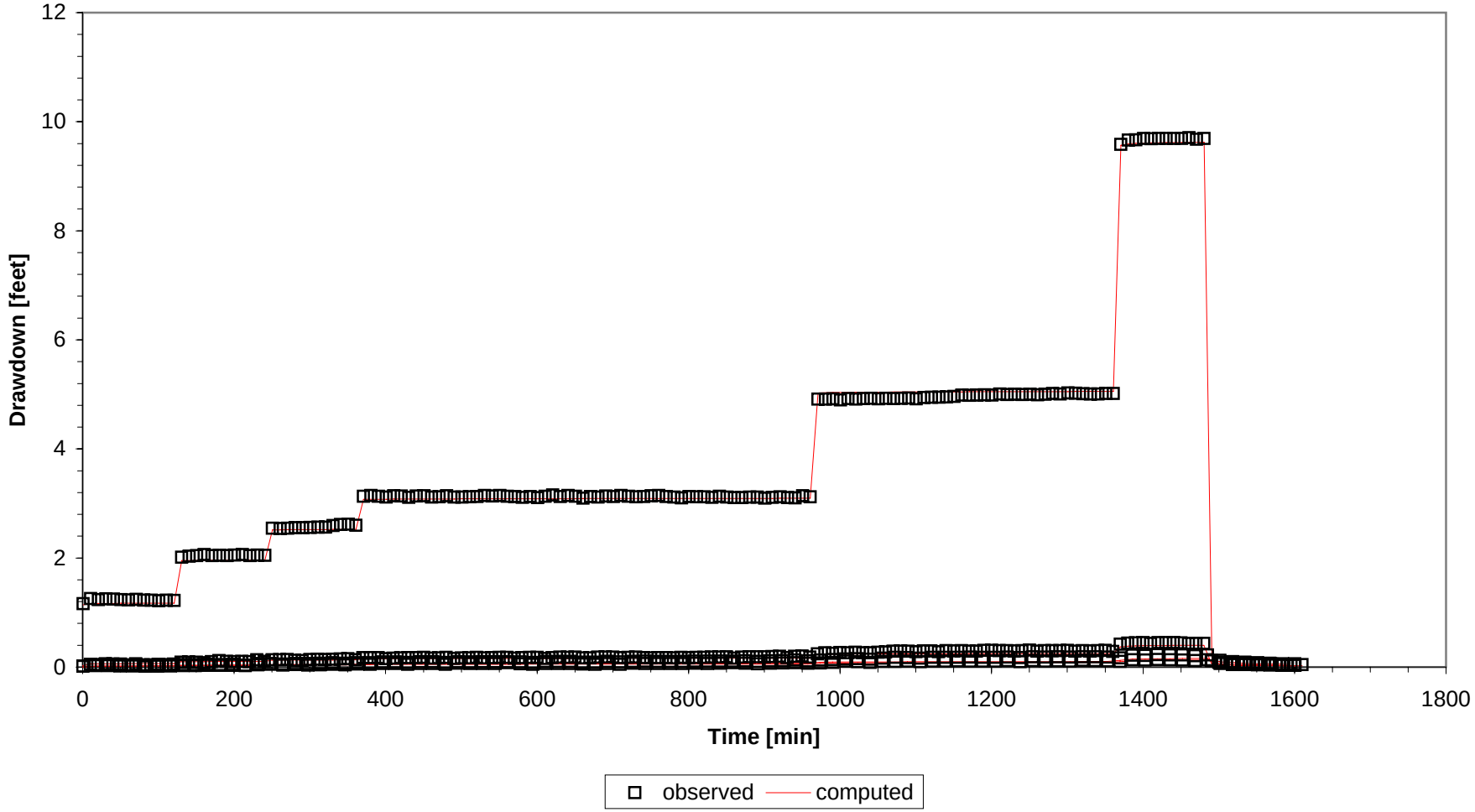
EW1 Pumping Test - Results from GWF
Omega Chemical Superfund Site
11-20-06 to 11-21-06
Kr=262 ft/day

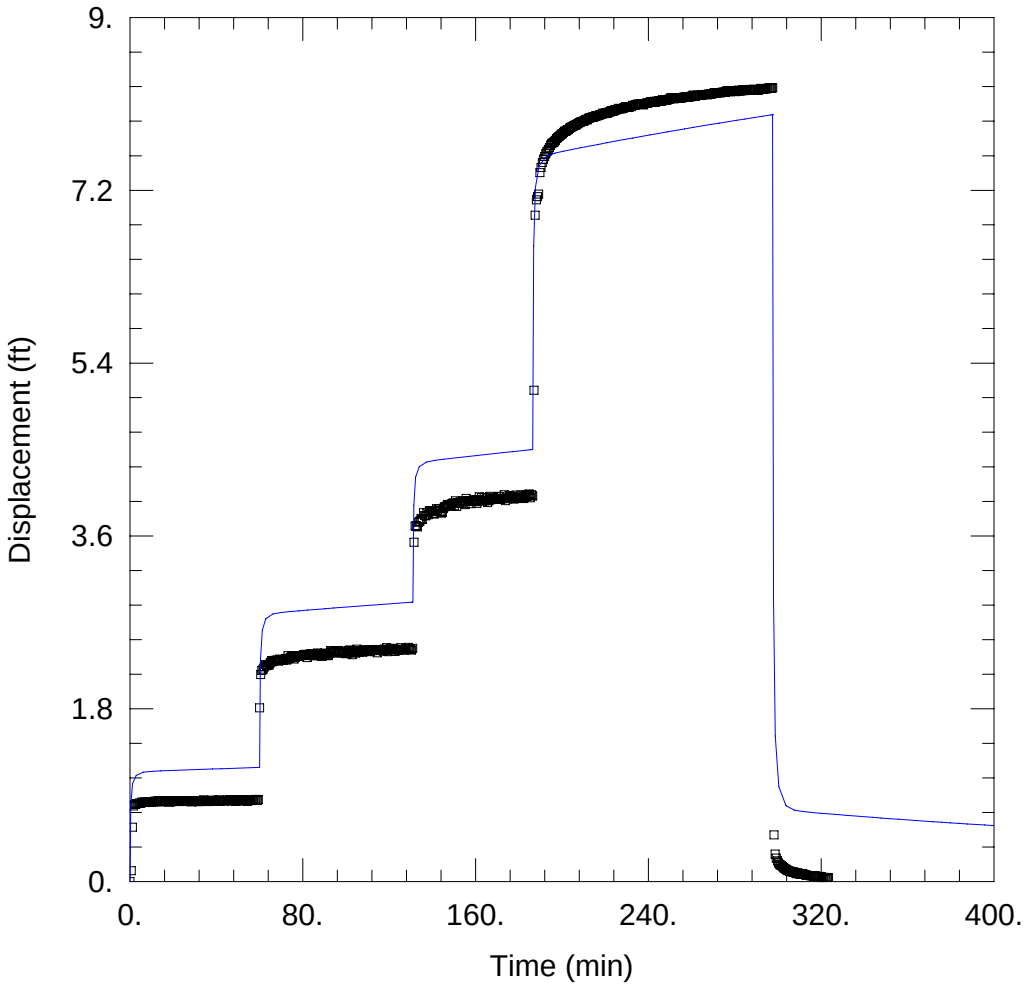


EW1 Pumping Test - Results from GWF
Omega Chemical Superfund Site
11-20-06 to 11-21-06
Kr=270 ft/day



EW1 Pumping Test - Results from GWF
Omega Chemical Superfund Site
11-20-06 to 11-21-06
Kr=456 ft/day





WELL TEST ANALYSIS

Data Set: R:\...\MW23Apump.aqt
Date: 09/28/07 Time: 10:06:44

PROJECT INFORMATION

Company: CH2M HILL
Client: EPA
Project: 335392
Location: Omega
Test Well: MW23A
Test Date: 6/29/07

AQUIFER DATA

Saturated Thickness: 38.2 ft Anisotropy Ratio (Kz/Kr): 0.06238

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW23A	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW23A	0	0

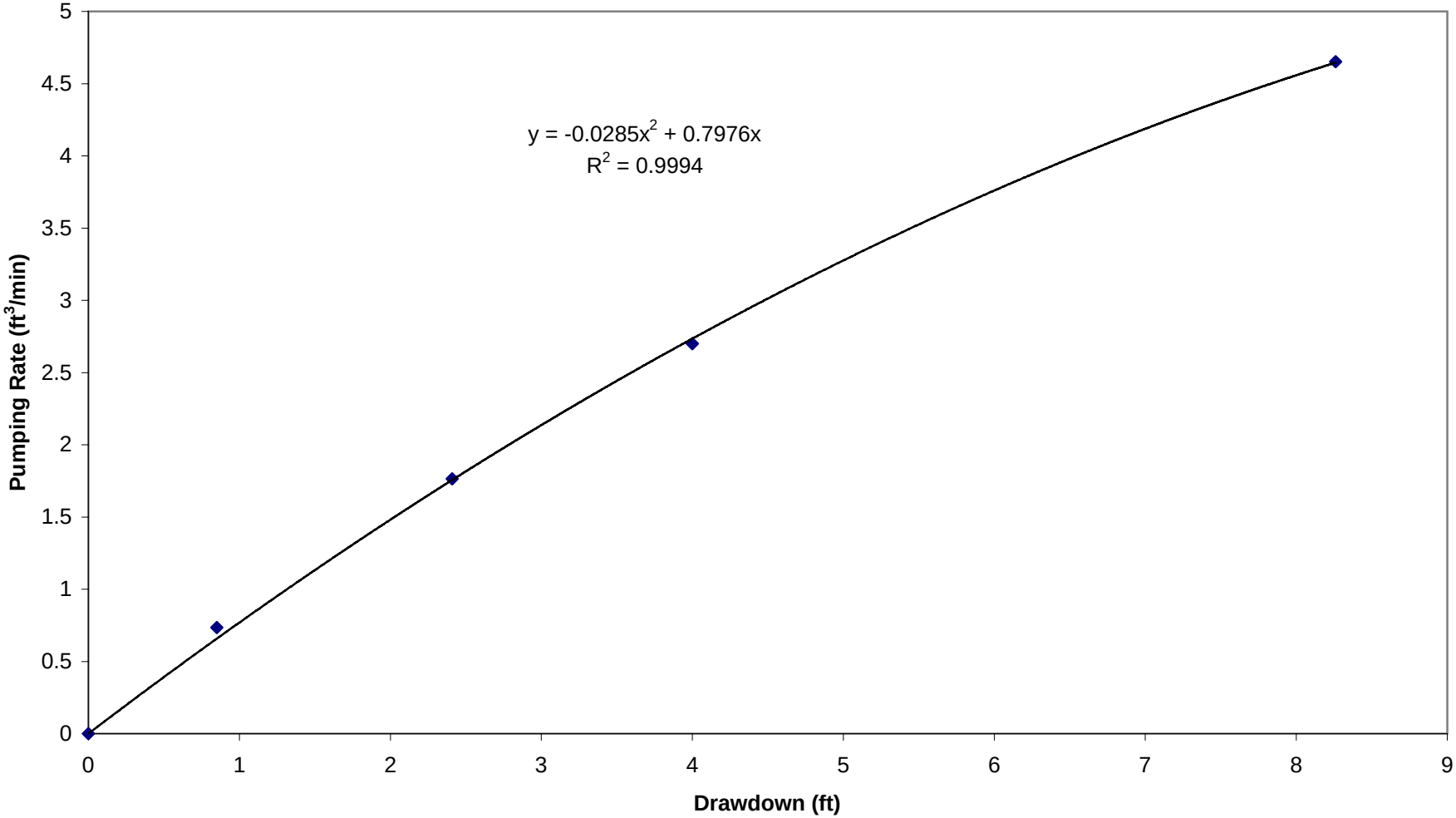
SOLUTION

Aquifer Model: Unconfined Solution Method: Moench

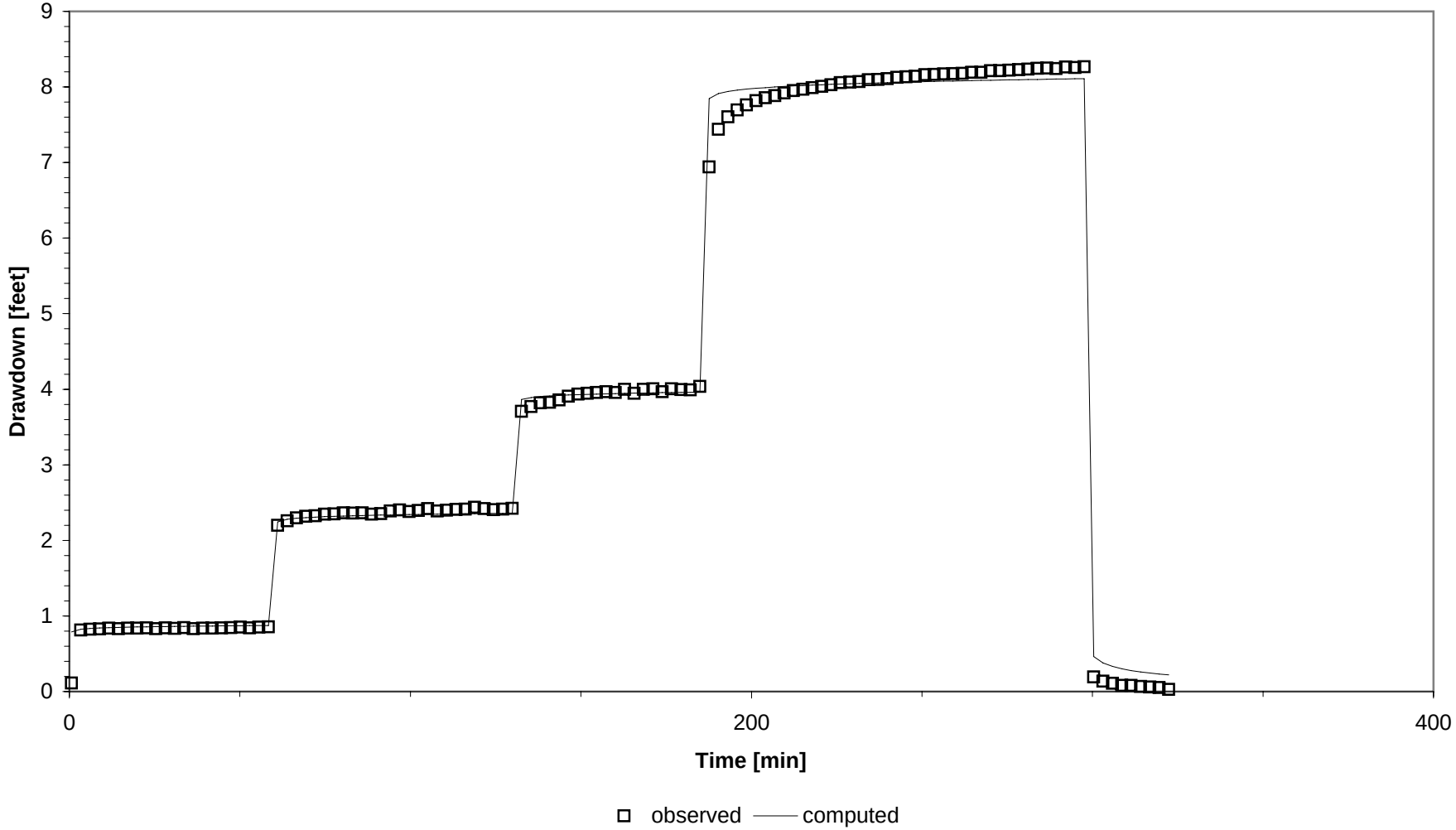
T = 0.3309 ft^2/min
Sy = 0.01
Sw = -3.992
alpha = 1.0E+30 min^{-1}

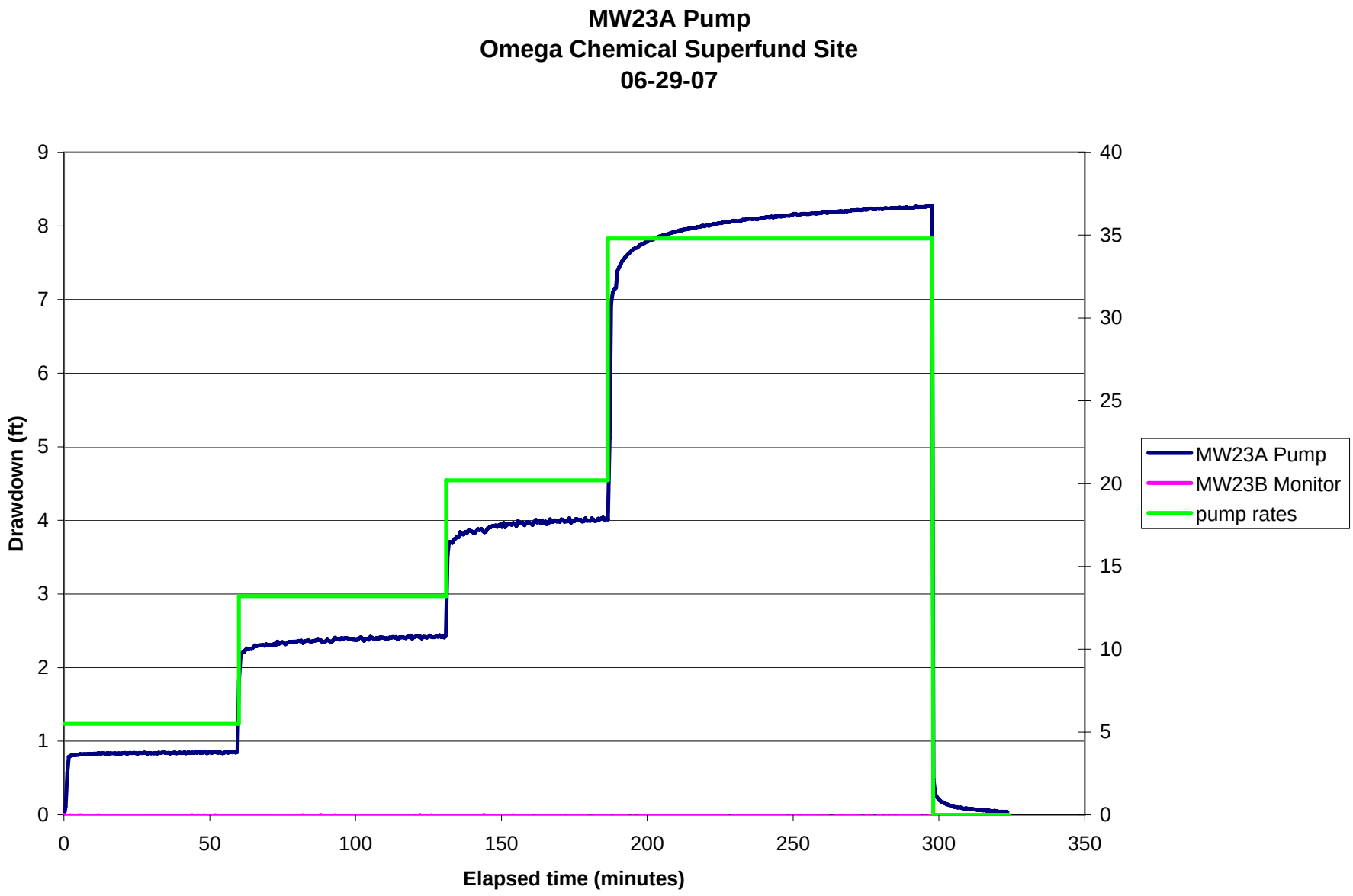
S = 0.0001054
ß = 1.71E-6
r(w) = 0.158 ft

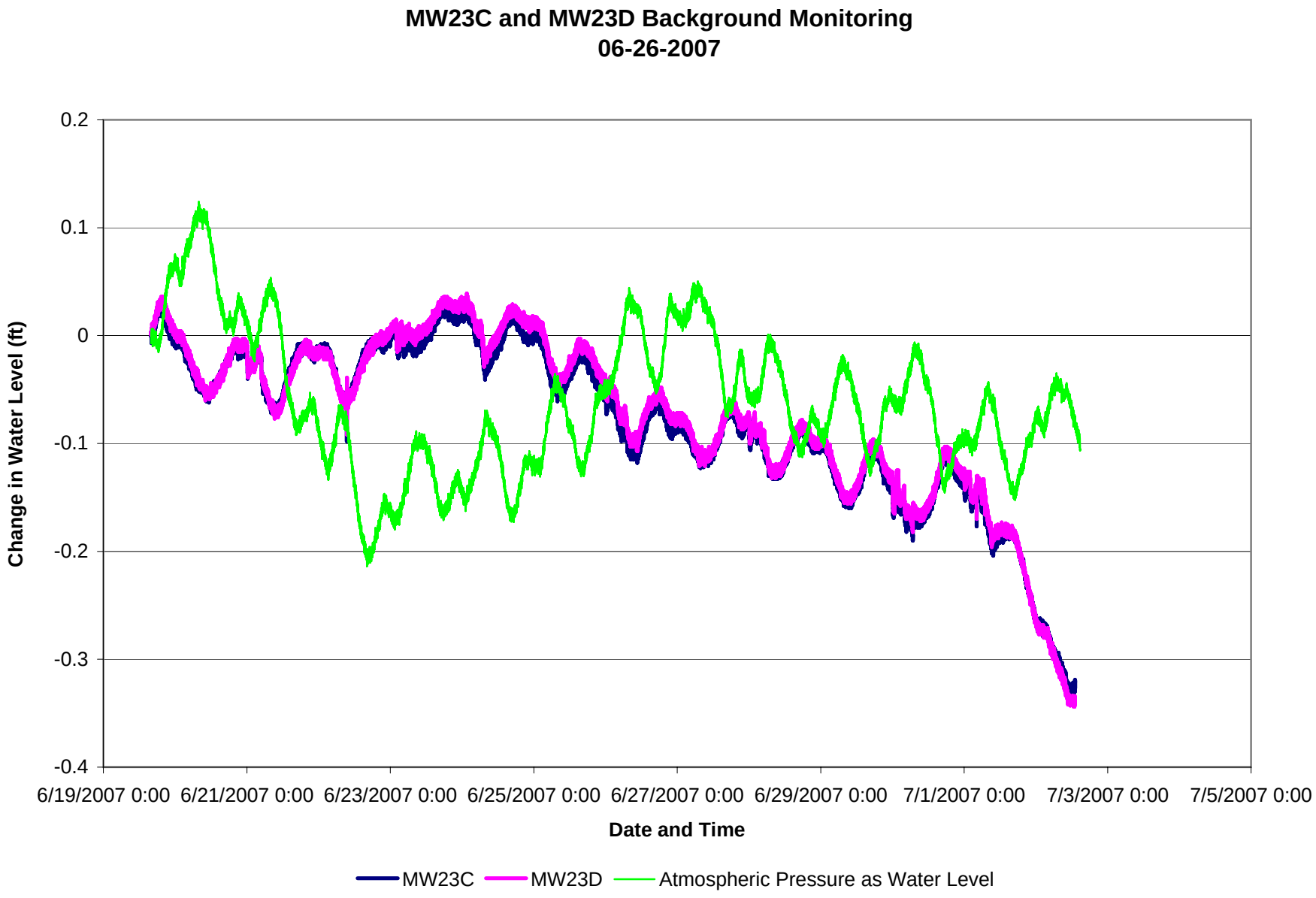
MW23A
Omega Chemical Superfund Site
06-29-07

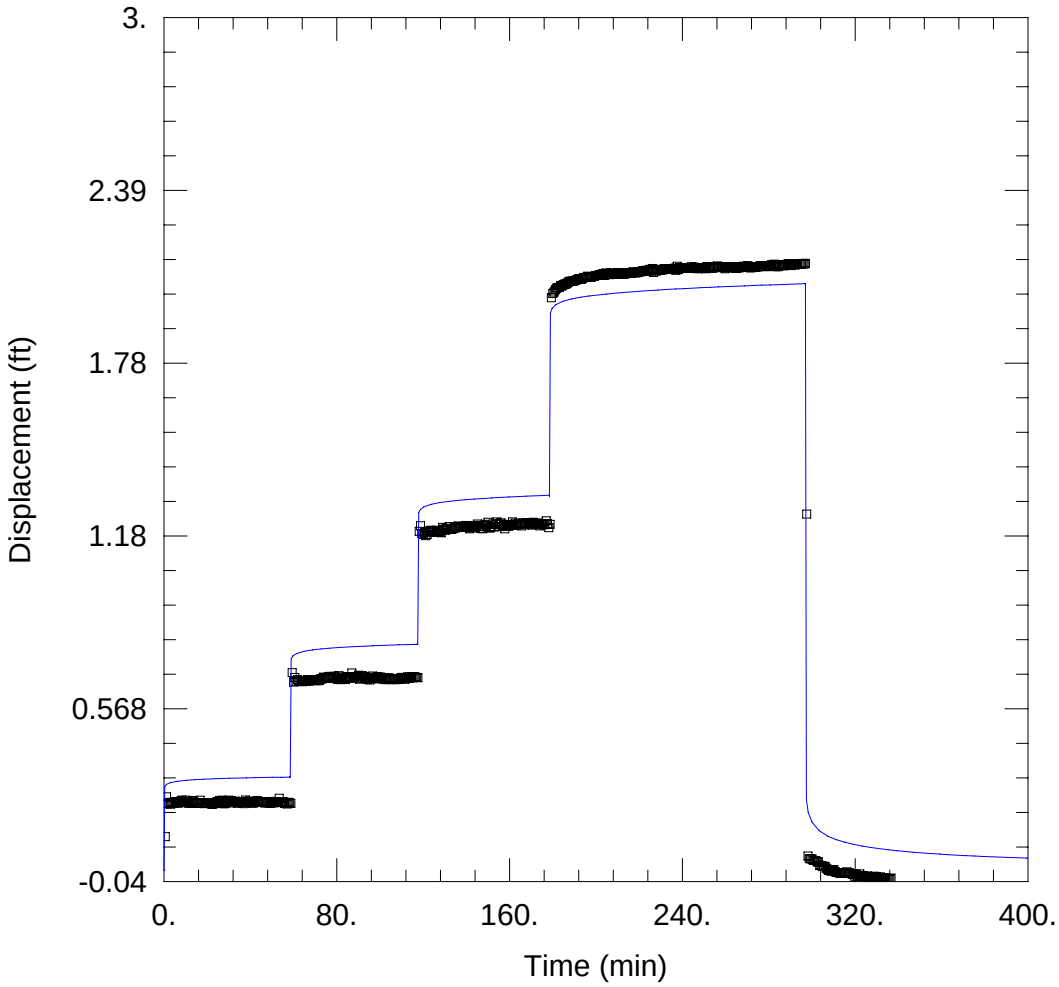


MW23A Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-29-07




MW23A Pump
Omega Chemical Superfund Site
06-29-07
Drawdown (ft)
Elapsed time (minutes)
0
1
2
3
4
5
6
7
8
9
0
5
10
15
20
25
30
35
40
0
50
100
150
200
250
300
350
MW23A Pump
MW23B Monitor
pump rates


MW23C and MW23D Background Monitoring
06-26-2007
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Change in Water Level (ft)
6/19/2007 0:00
6/21/2007 0:00
6/23/2007 0:00
6/25/2007 0:00
6/27/2007 0:00
6/29/2007 0:00
7/1/2007 0:00
7/3/2007 0:00
7/5/2007 0:00
Date and Time
MW23C
MW23D
Atmospheric Pressure as Water Level



WELL TEST ANALYSIS

Data Set: R:\...\MW24Apump.aqt
Date: 09/28/07 Time: 10:07:57

PROJECT INFORMATION

Company: CH2M HILL
Client: EPA
Project: 335392
Location: Omega
Test Well: MW24A
Test Date: 6/28/07

AQUIFER DATA

Saturated Thickness: 37.2 ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MW24A	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
▫ MW24A	0	0

SOLUTION

Aquifer Model: Confined Solution Method: Theis (Step Test)

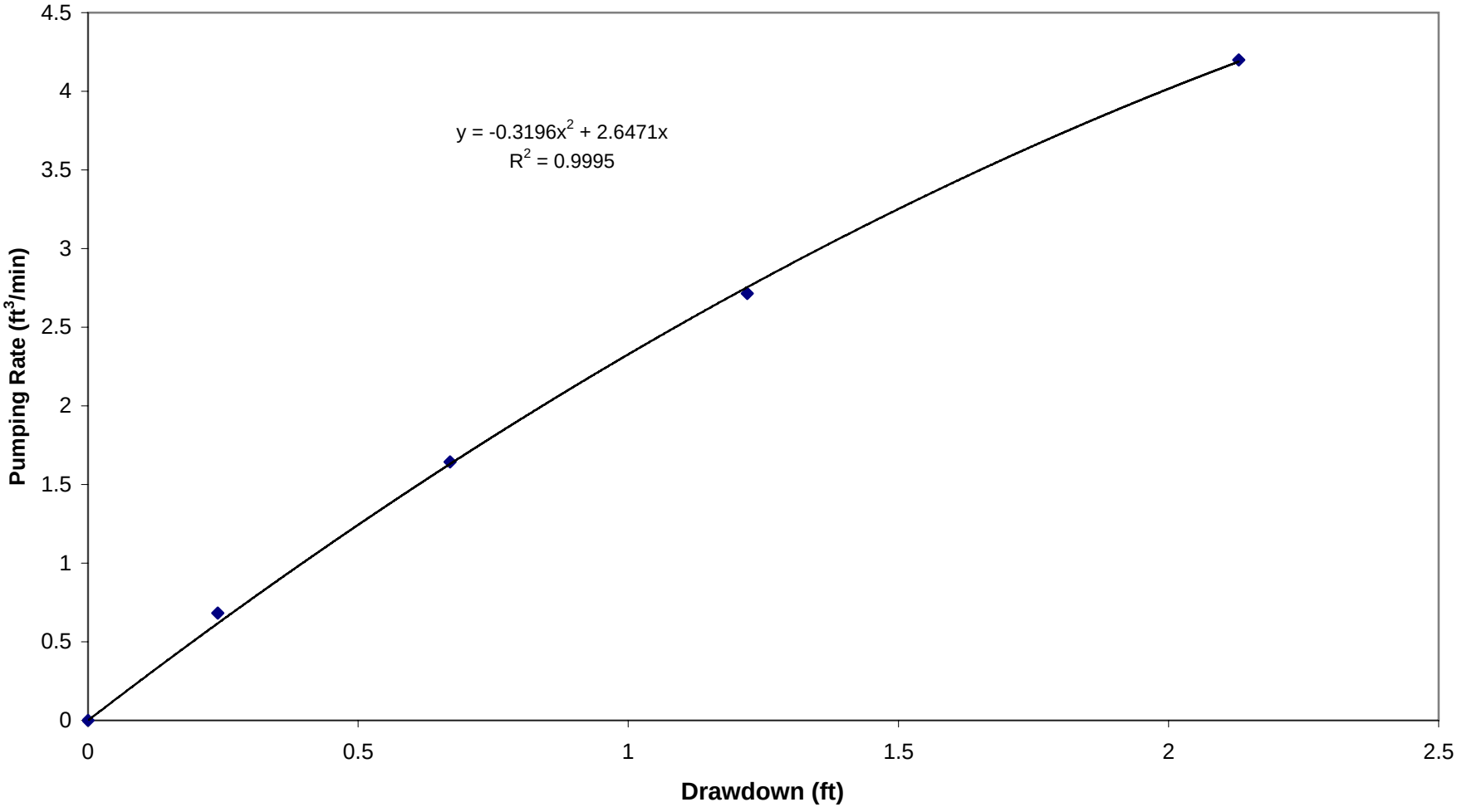
T = 8.173 ft^2/min
Sw = 10.
P = 2.

S = 1.0E-5
C = 2.424E-5 min^2/ft^5

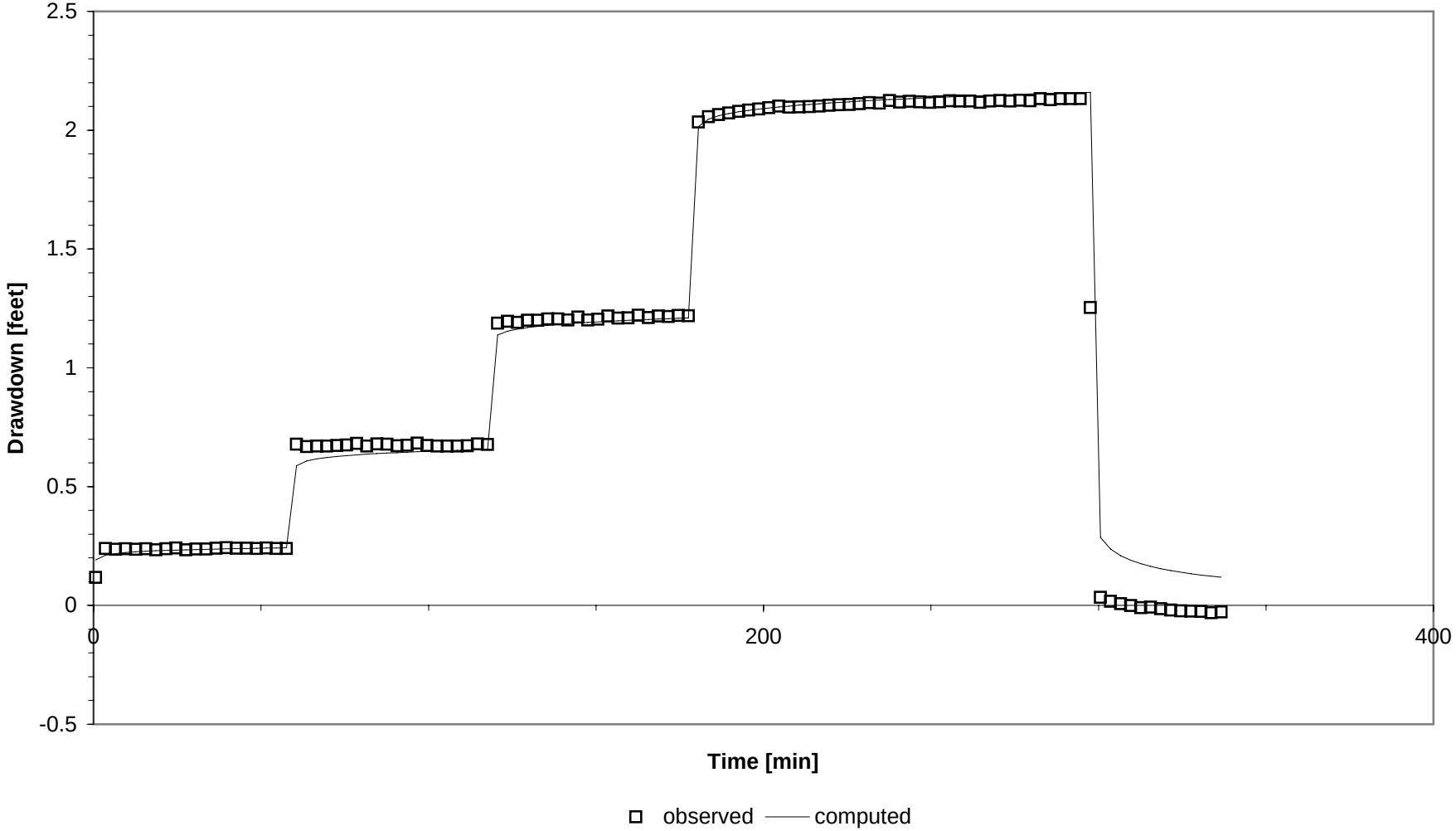
Step Test Model: Jacob-Rorabaugh

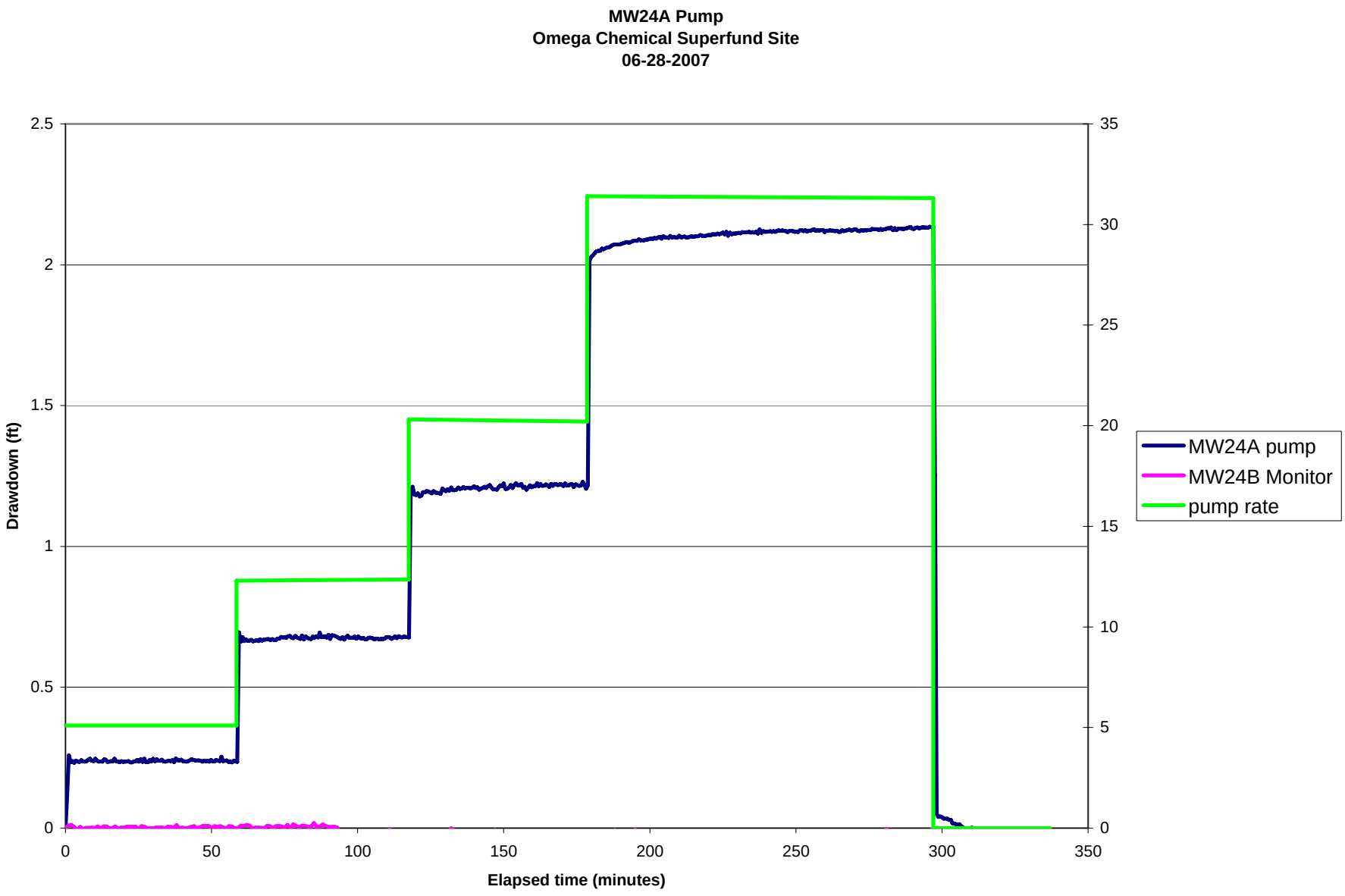
$s(t) = 0.4408Q + 2.424E\text{-}5Q^{2.}$

MW24A
Omega Chemical Superfund Site
06-28-07

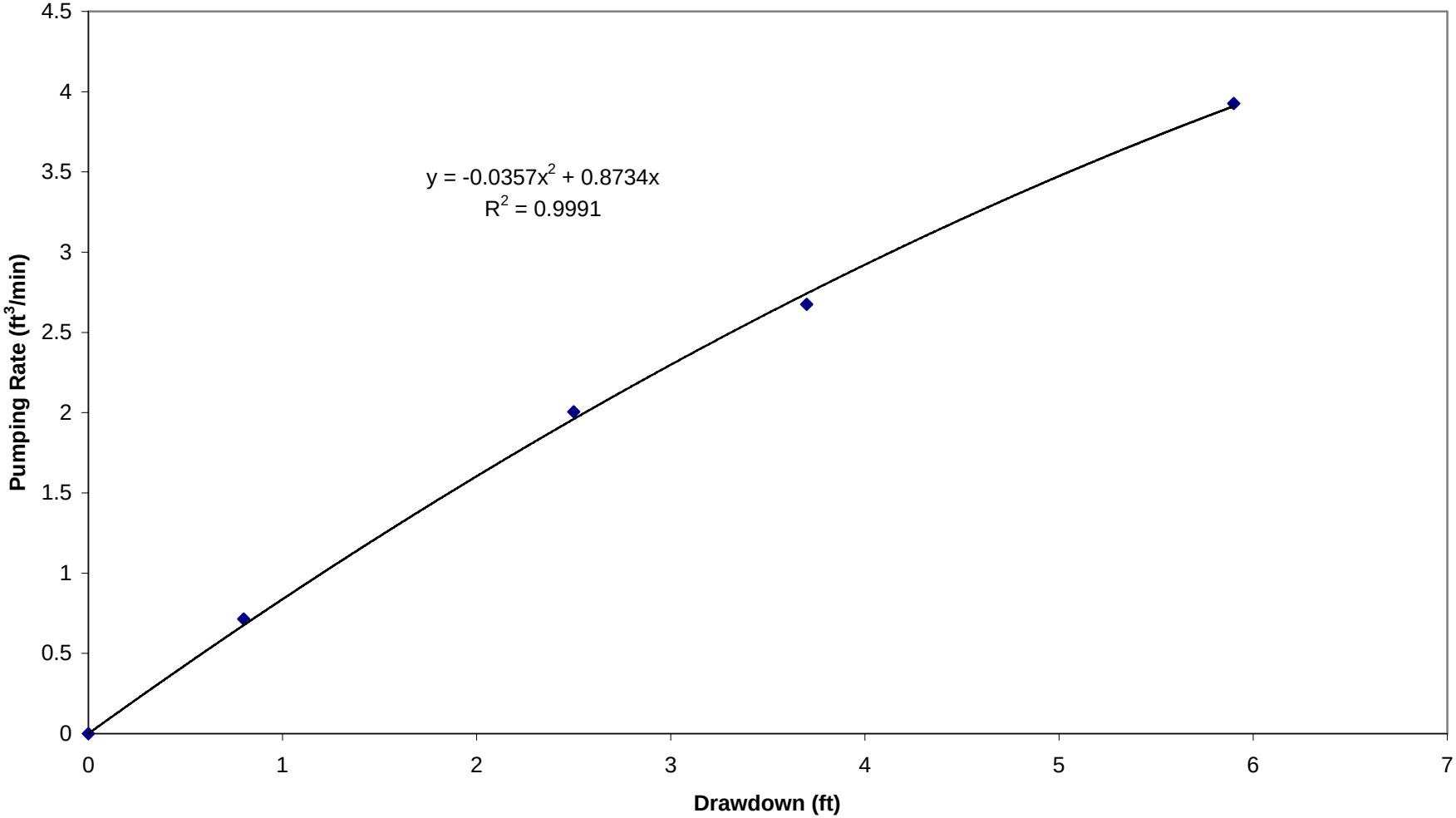


MW24A Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-28-07

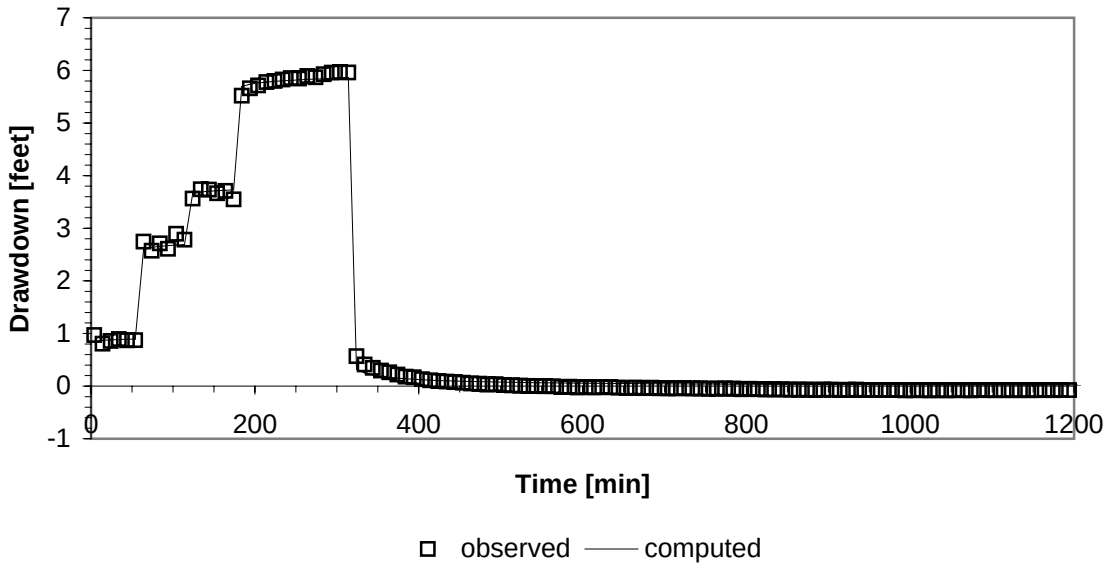



MW24A Pump
Omega Chemical Superfund Site
06-28-2007
Drawdown (ft)
2.5
2
1.5
1
0.5
0
35
30
25
20
15
10
5
0
0
50
100
150
200
250
300
350
Elapsed time (minutes)
MW24A pump
MW24B Monitor
pump rate

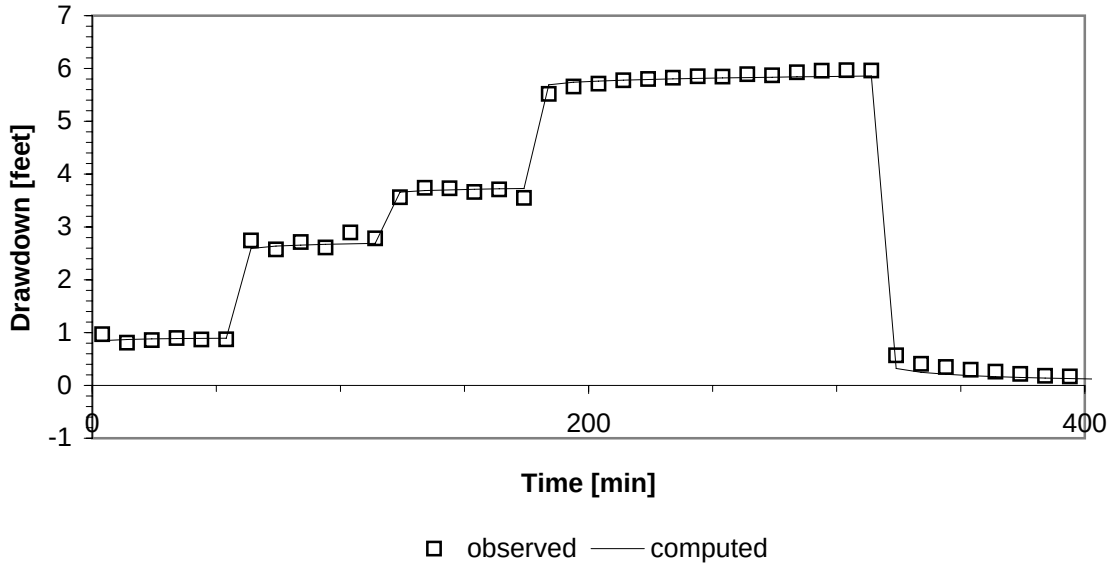
MW24C
Omega Chemical Superfund Site
06-26-07



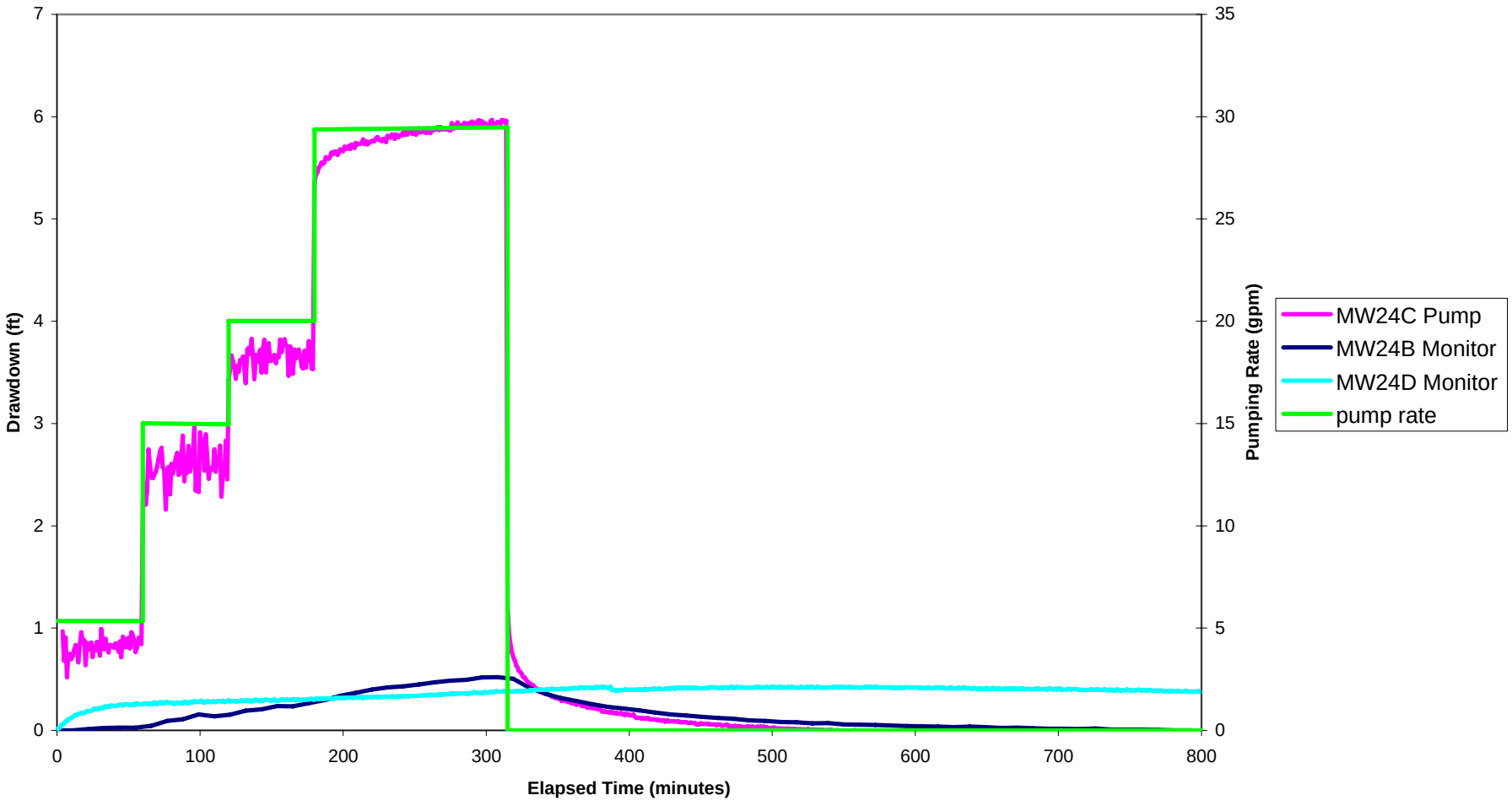
MW24C Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-26-07



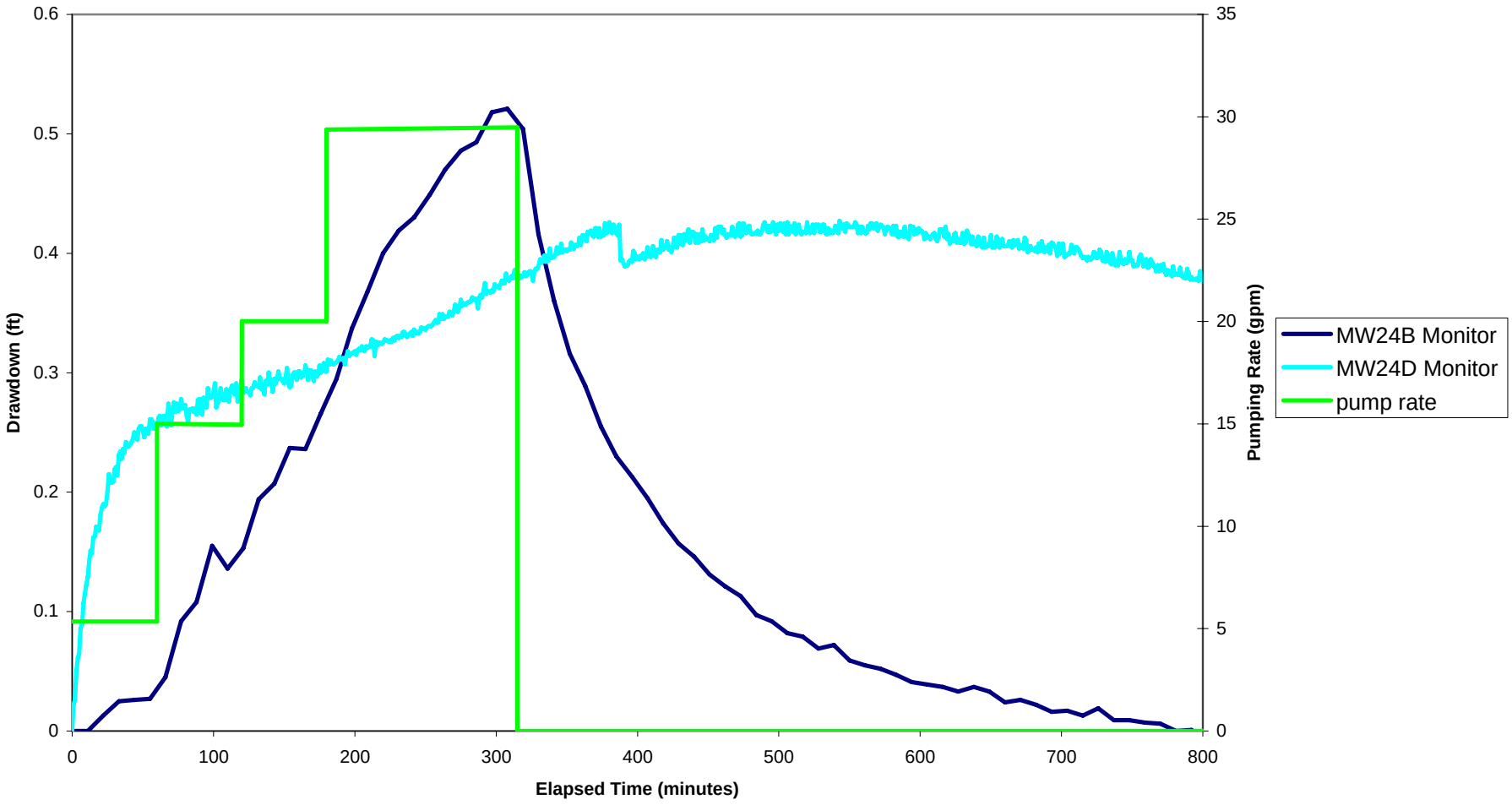
MW24C Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-26-07



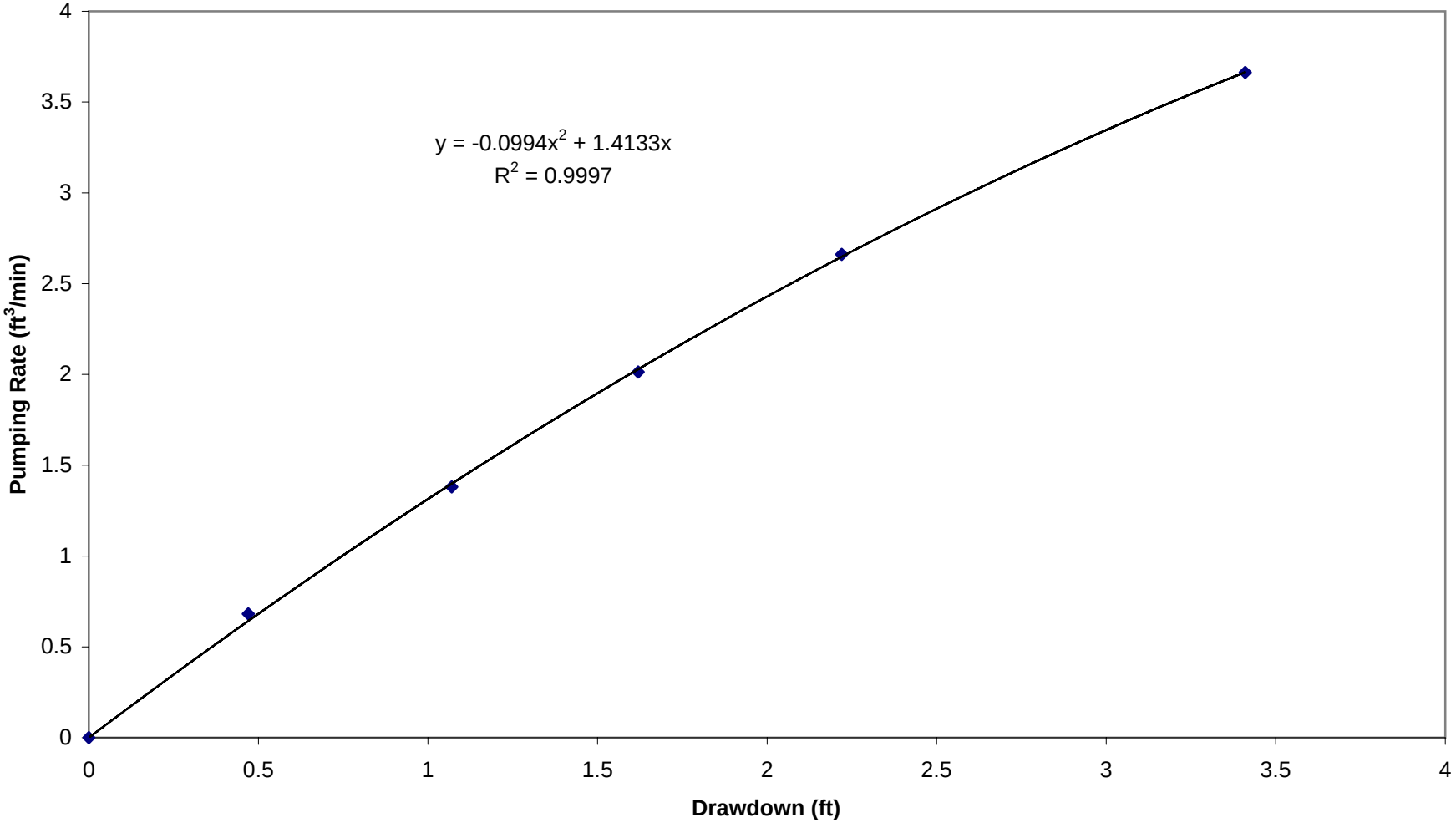
MW24C Pump
Omega Chemical Superfund Site
06-26-2007



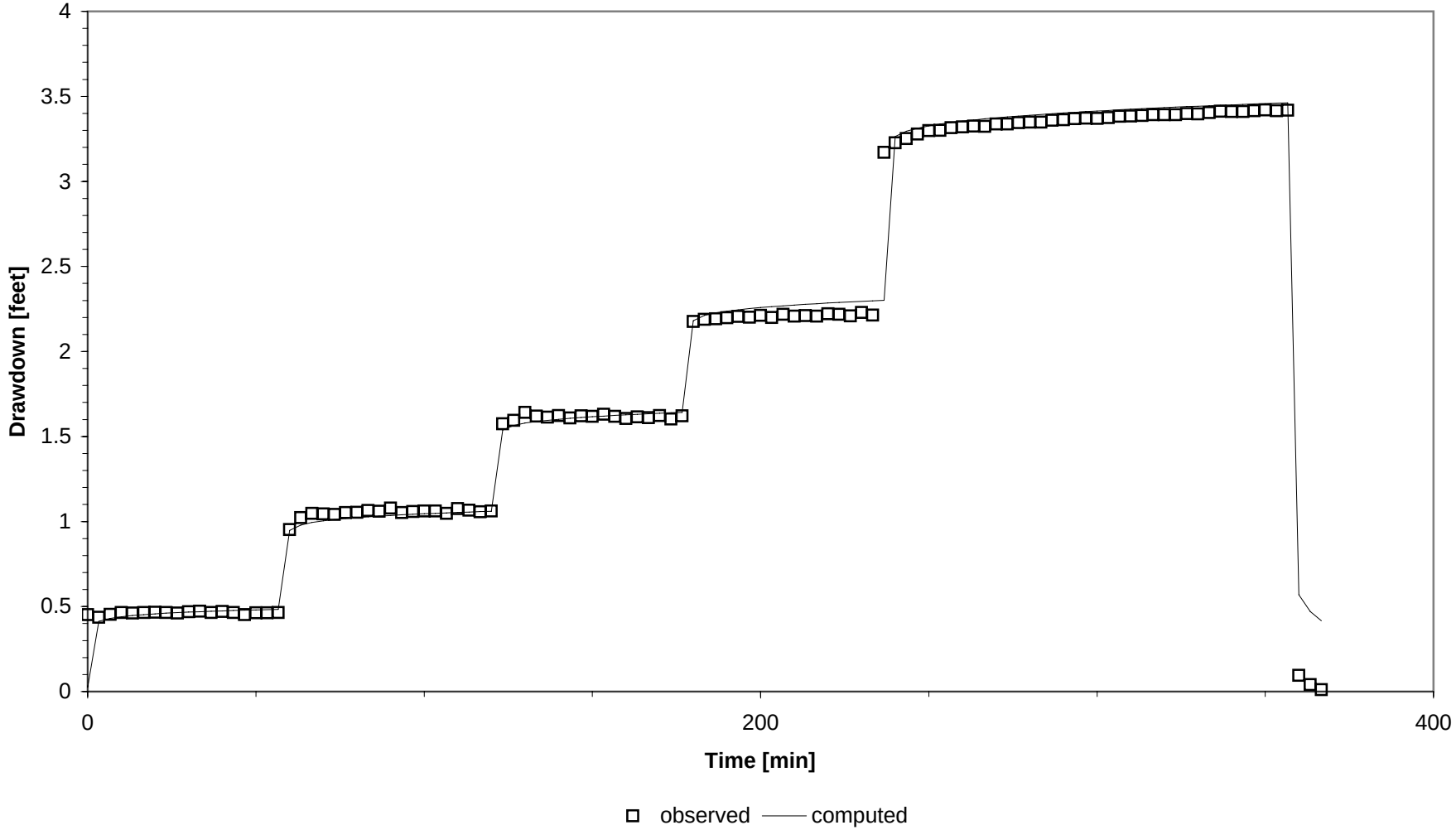
MW24C Pump
Omega Chemical Superfund Site
06-26-2007

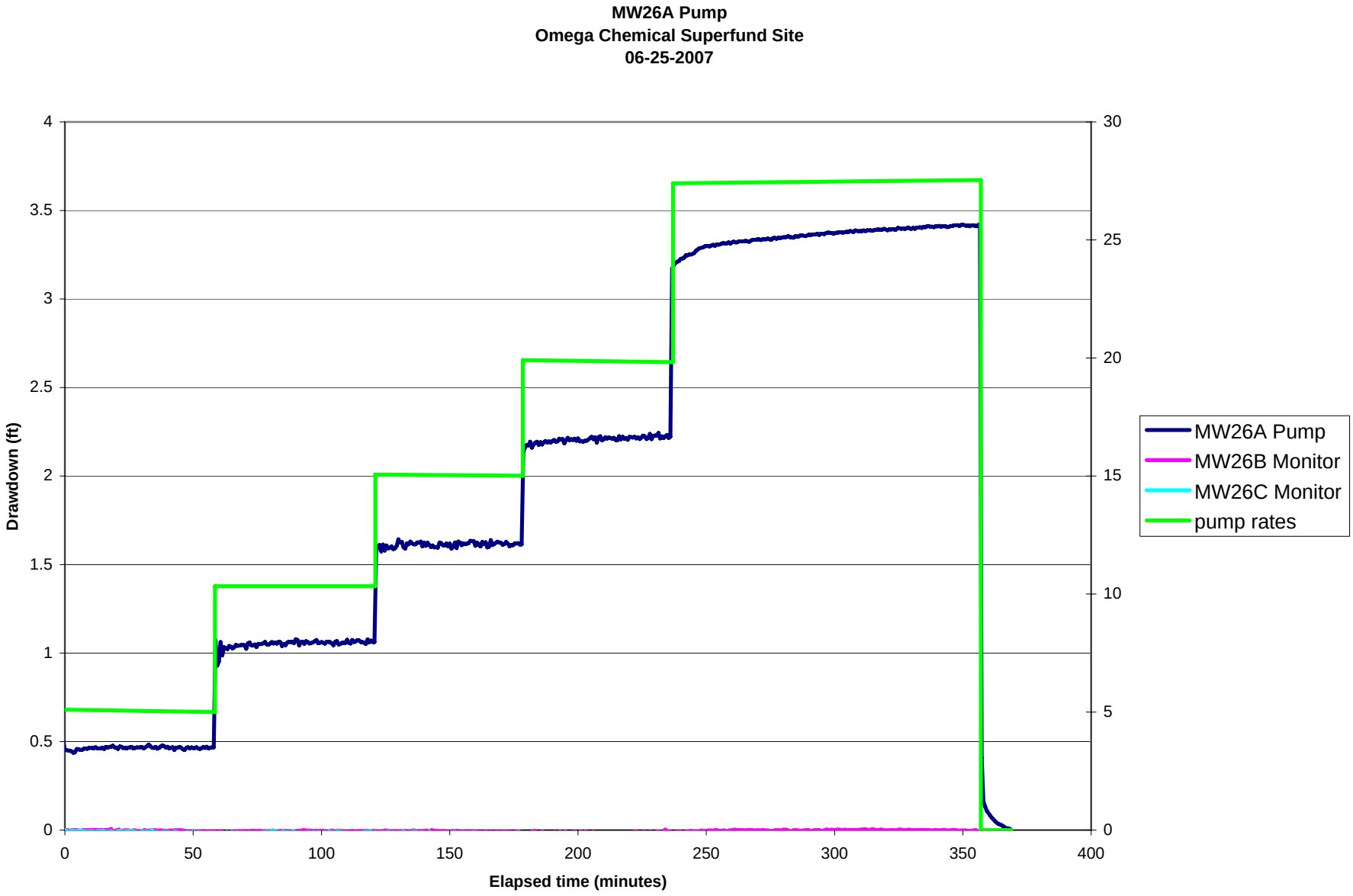


MW26A
Omega Chemical Superfund Site
6-25-07

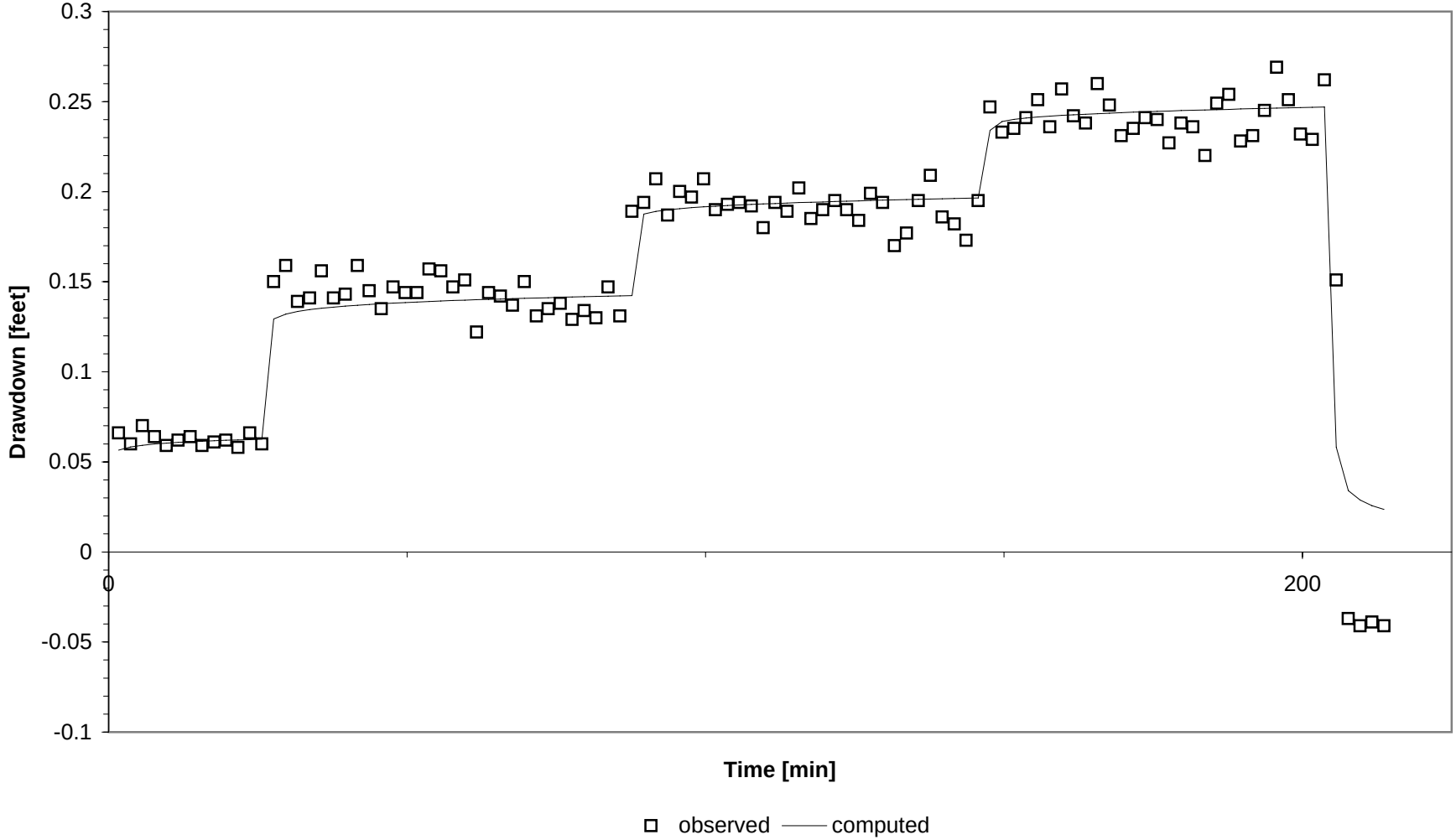


MW26A Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-25-07

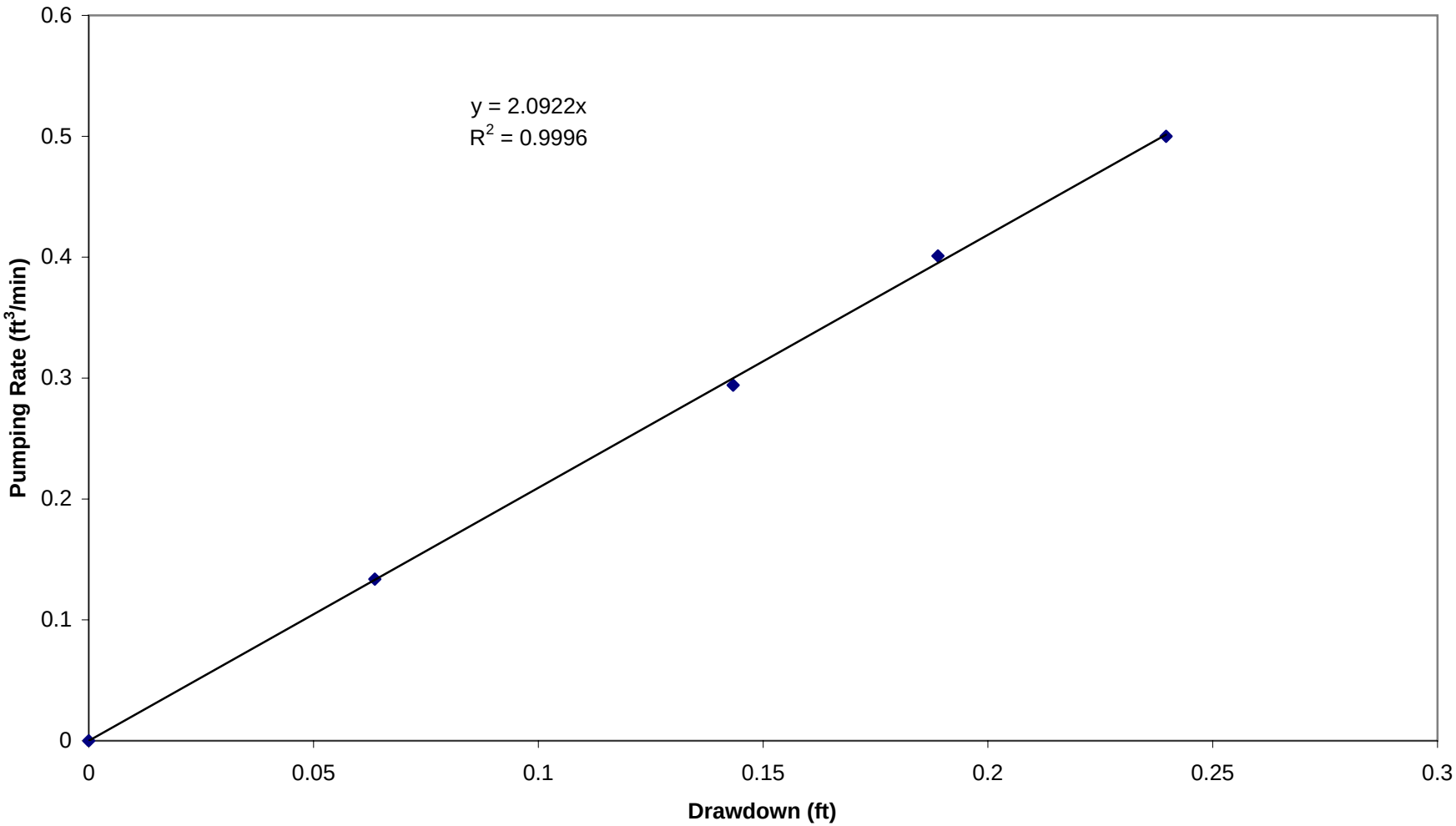



MW26A Pump
Omega Chemical Superfund Site
06-25-2007
Drawdown (ft)
Elapsed time (minutes)
0
0.5
1
1.5
2
2.5
3
3.5
4
0
5
10
15
20
25
30
0
50
100
150
200
250
300
350
400
MW26A Pump
MW26B Monitor
MW26C Monitor
pump rates

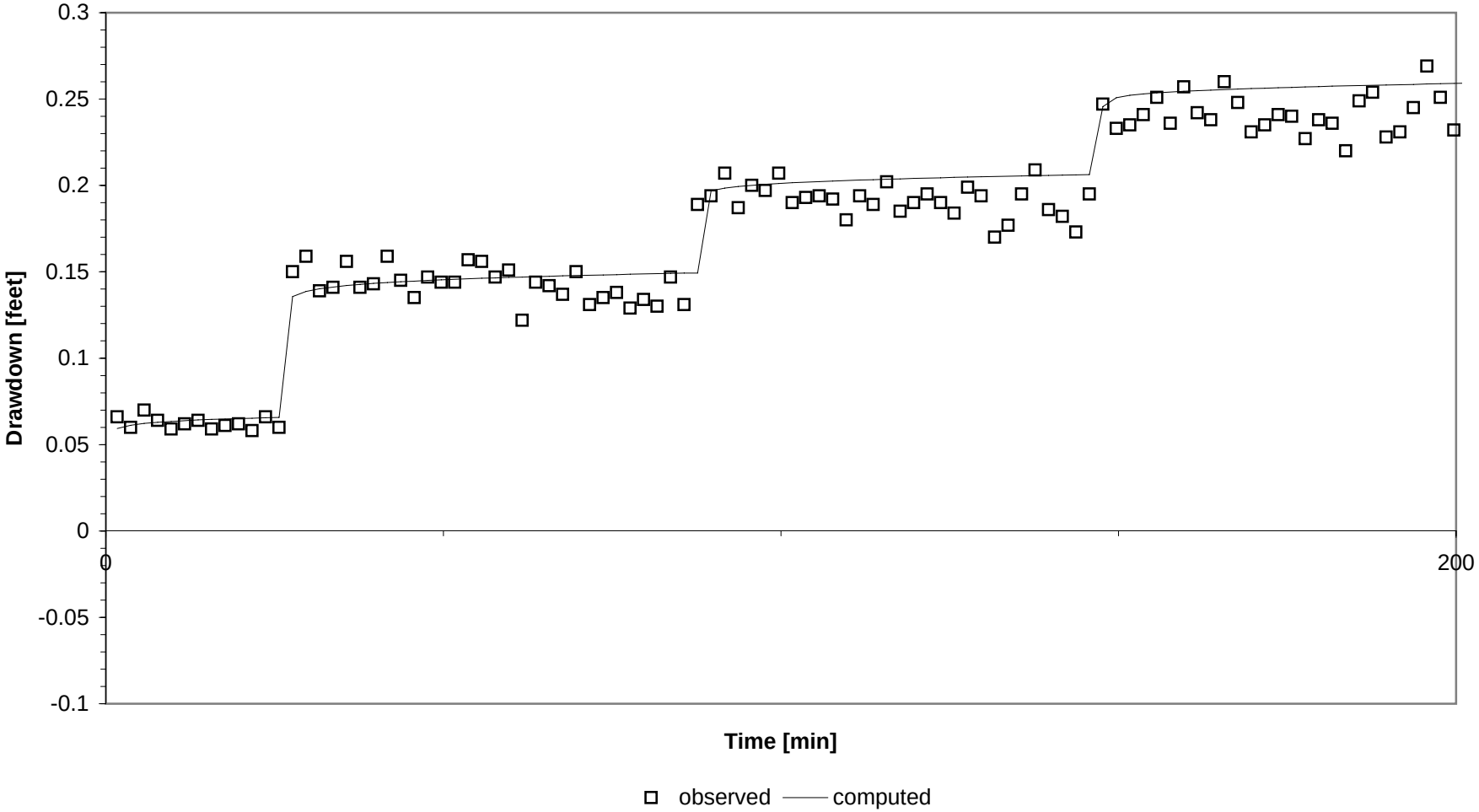
MW26B Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-22-07



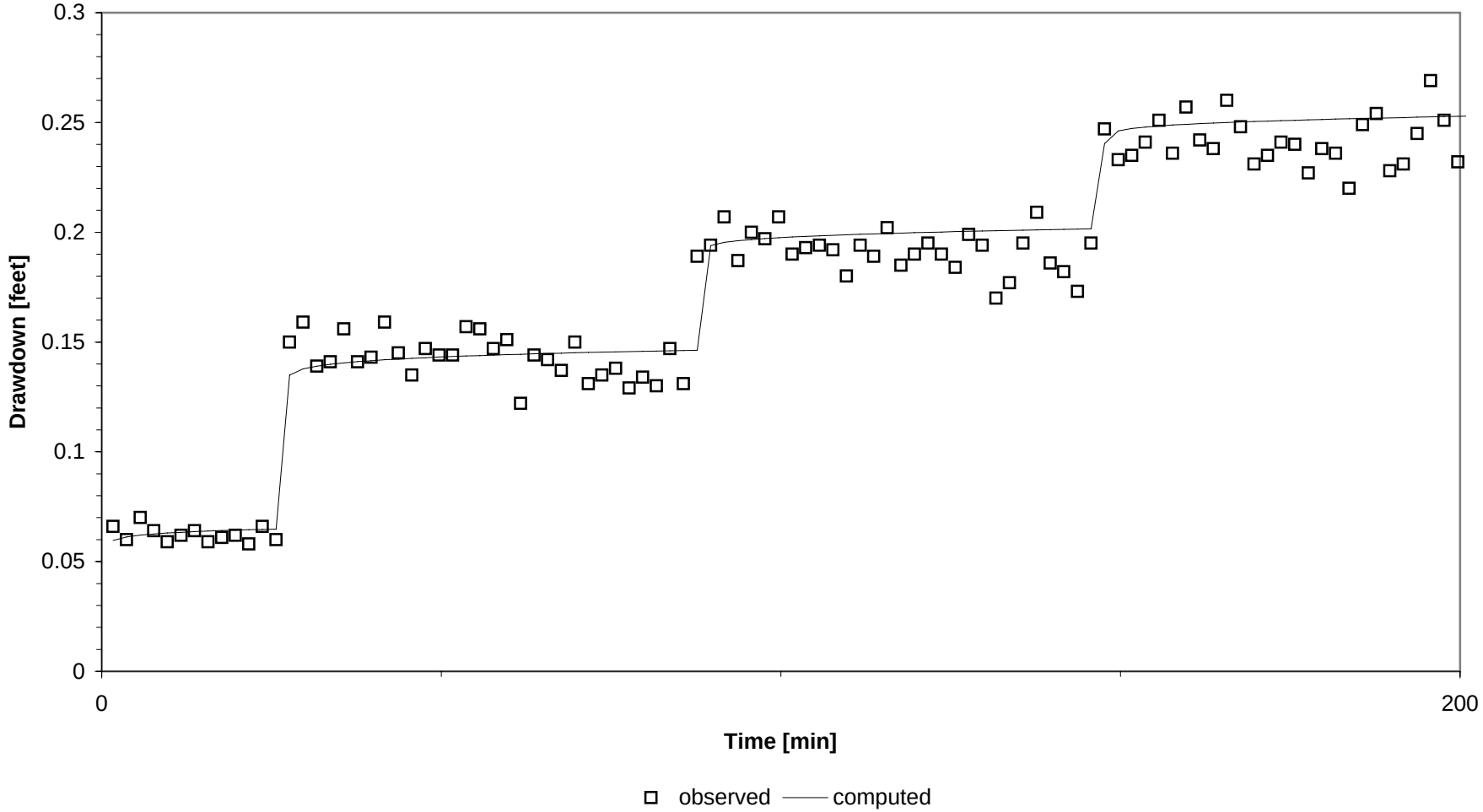
MW26B
Omega Chemical Superfund Site
06-22-07

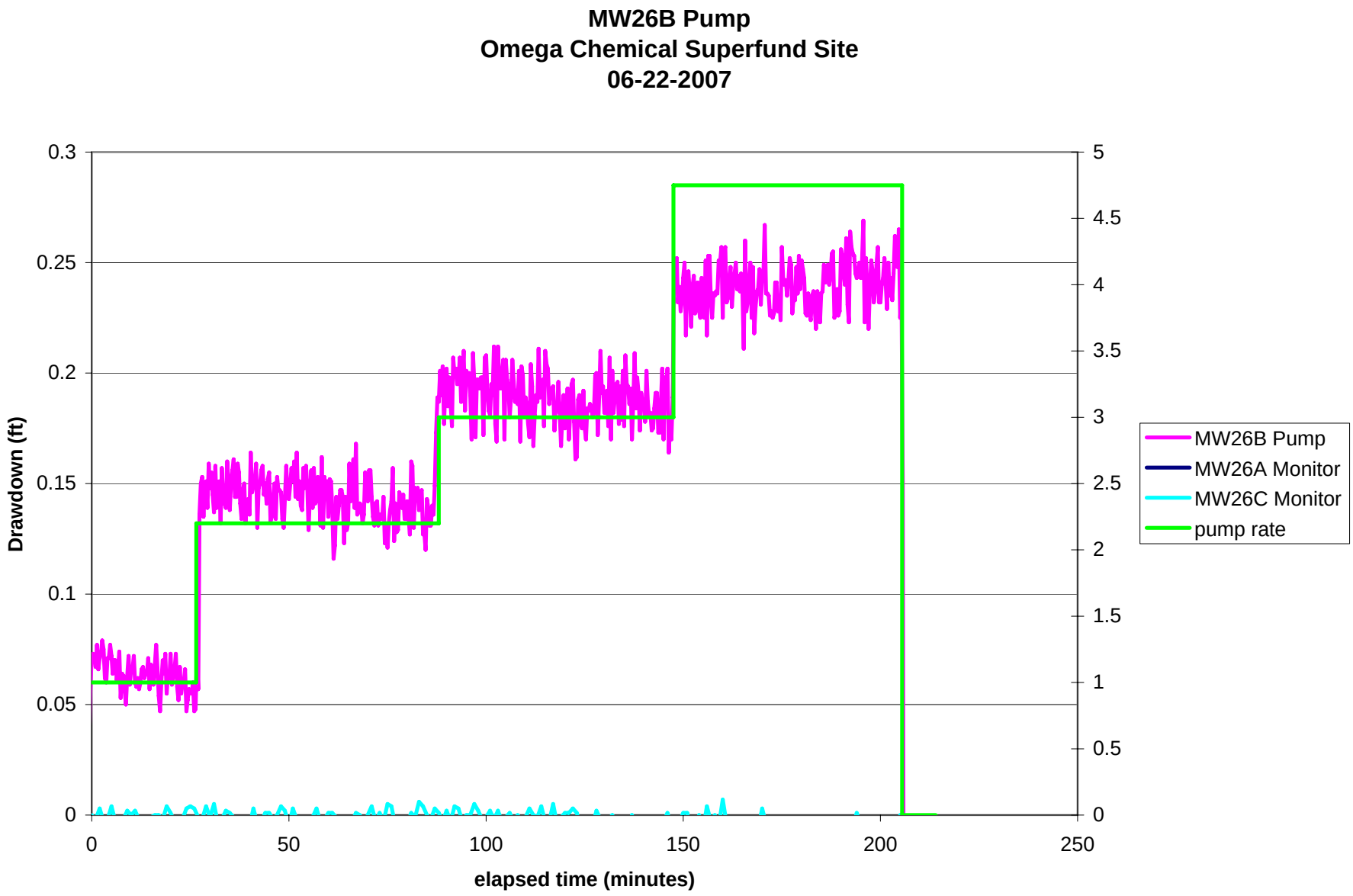


MW26B Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-22-07
Kr=303 ft/day

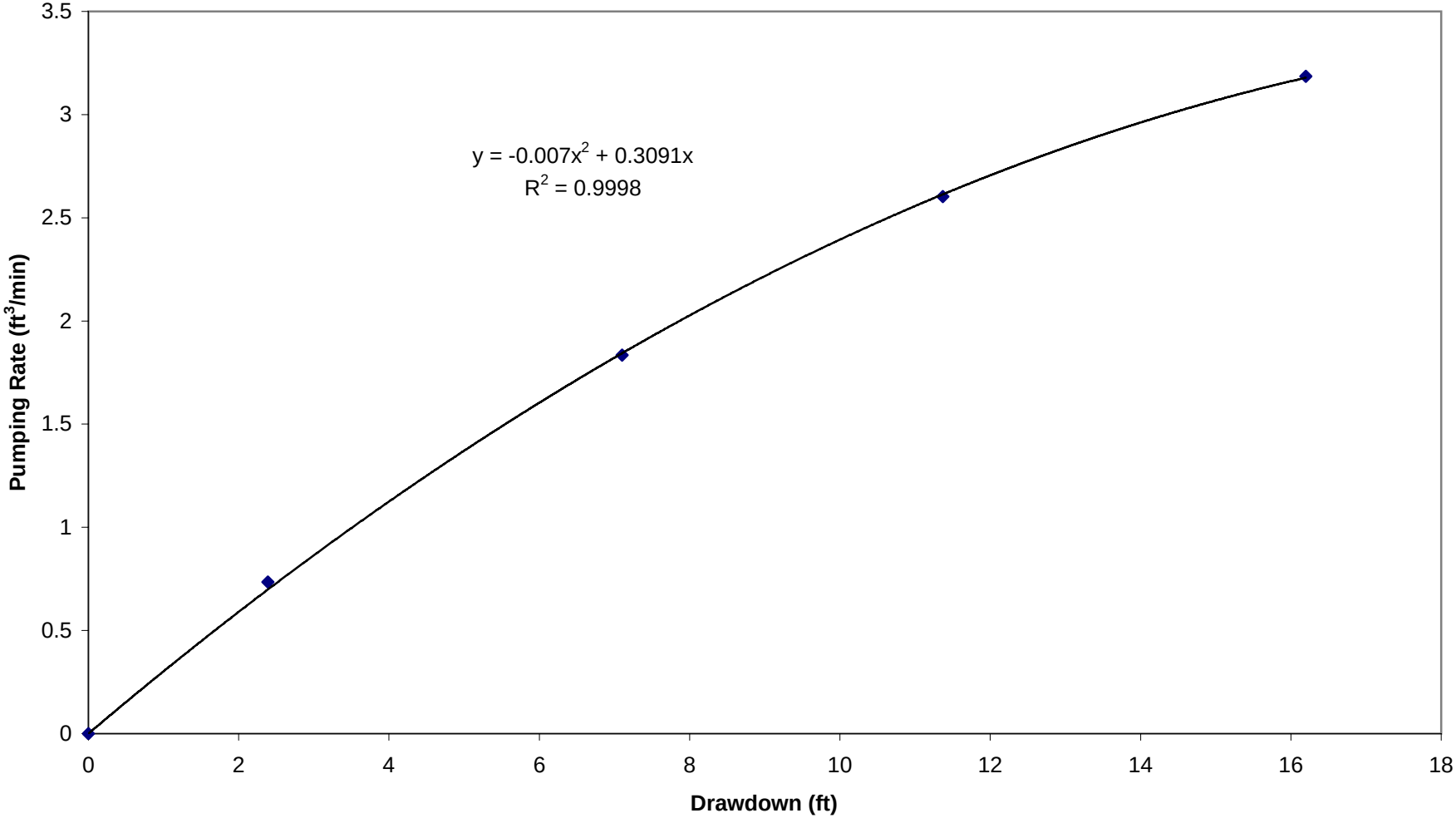


MW26B Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-22-07
Kr=383 ft/day; no C

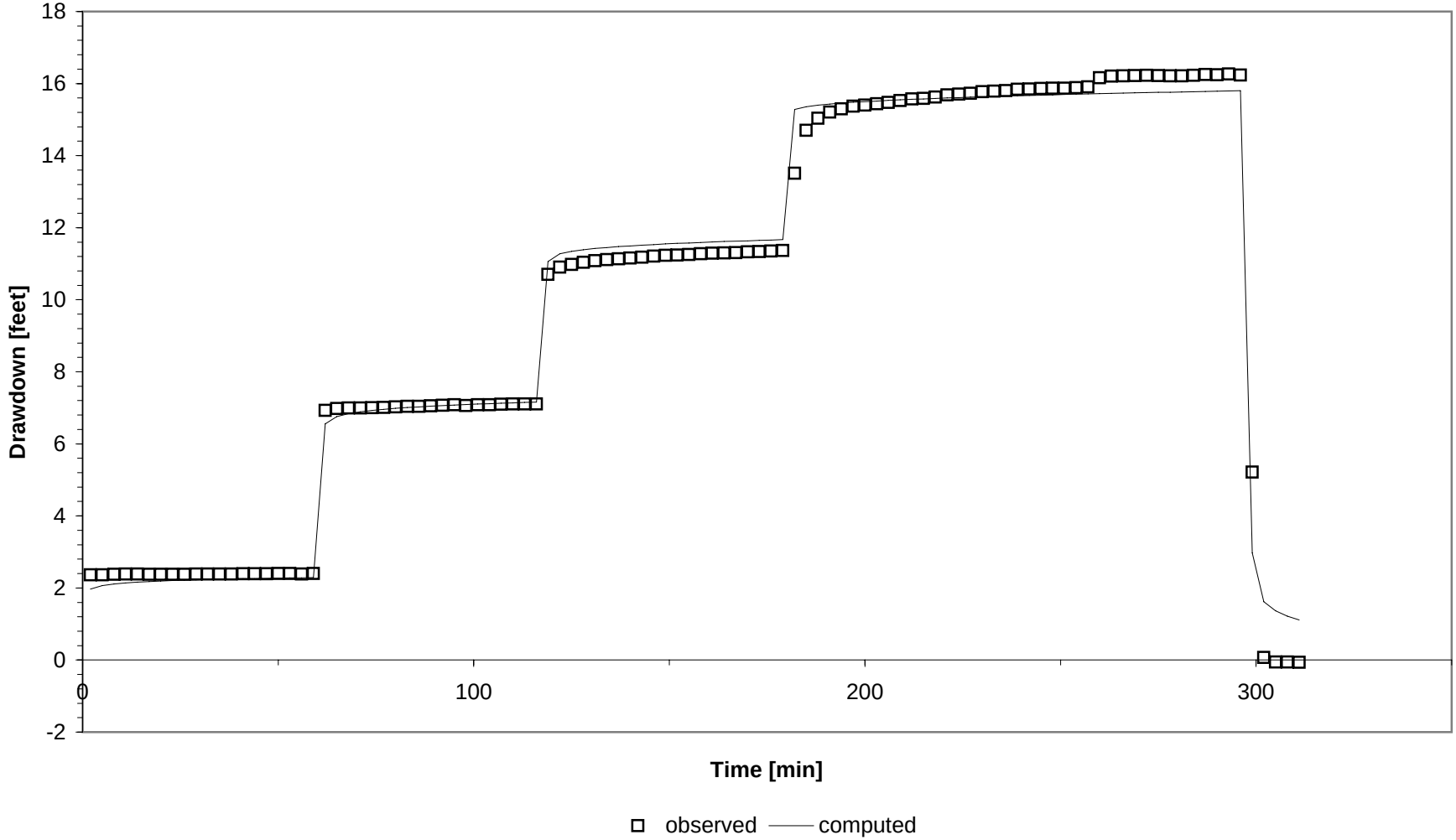


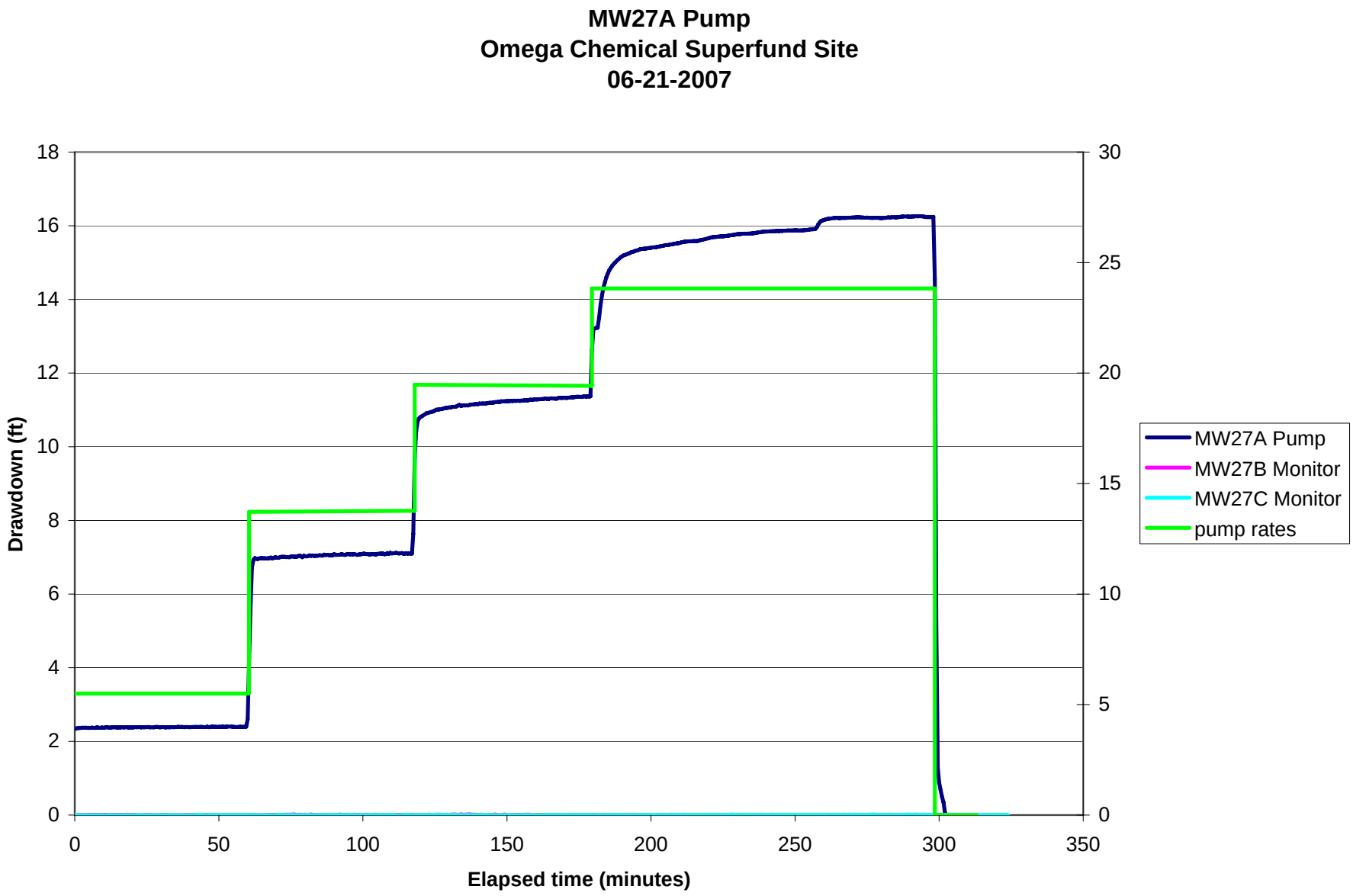

MW26B Pump
Omega Chemical Superfund Site
06-22-2007
Drawdown (ft)
0.3
0.25
0.2
0.15
0.1
0.05
0
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
50
100
150
200
250
elapsed time (minutes)
MW26B Pump
MW26A Monitor
MW26C Monitor
pump rate

MW27A
Omega Chemical Superfund Site
06-21-07

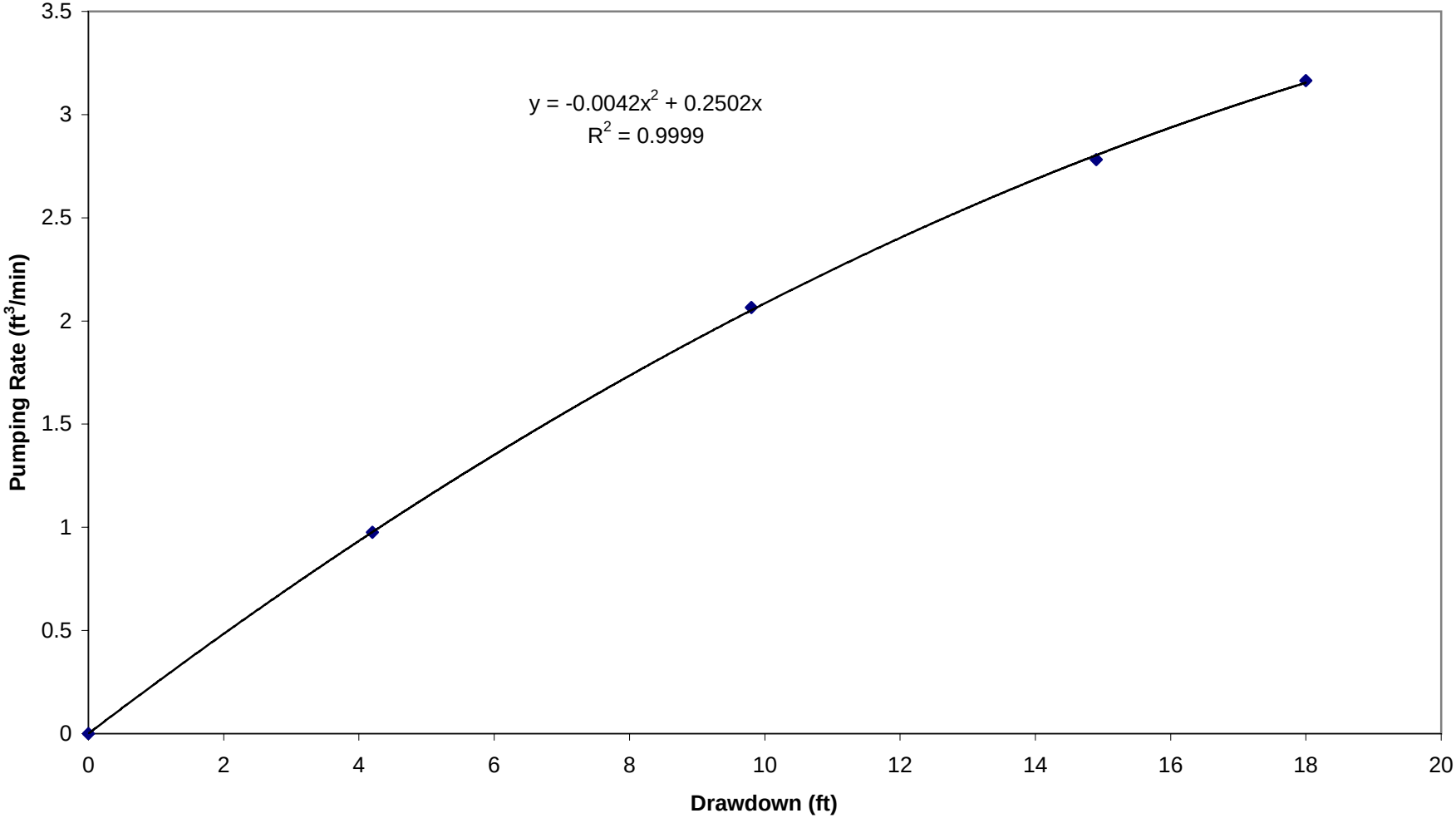


MW27A Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-21-07

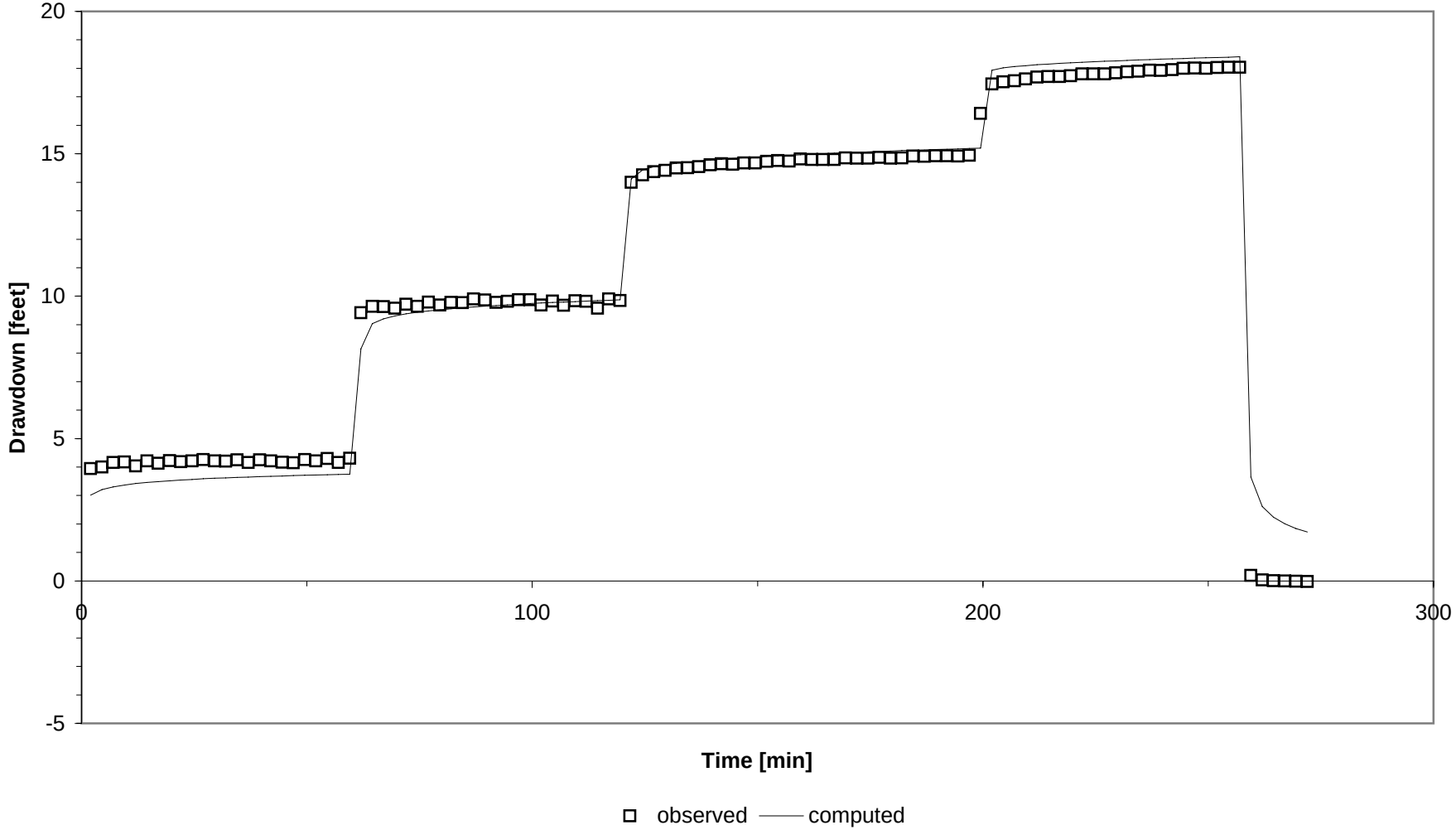


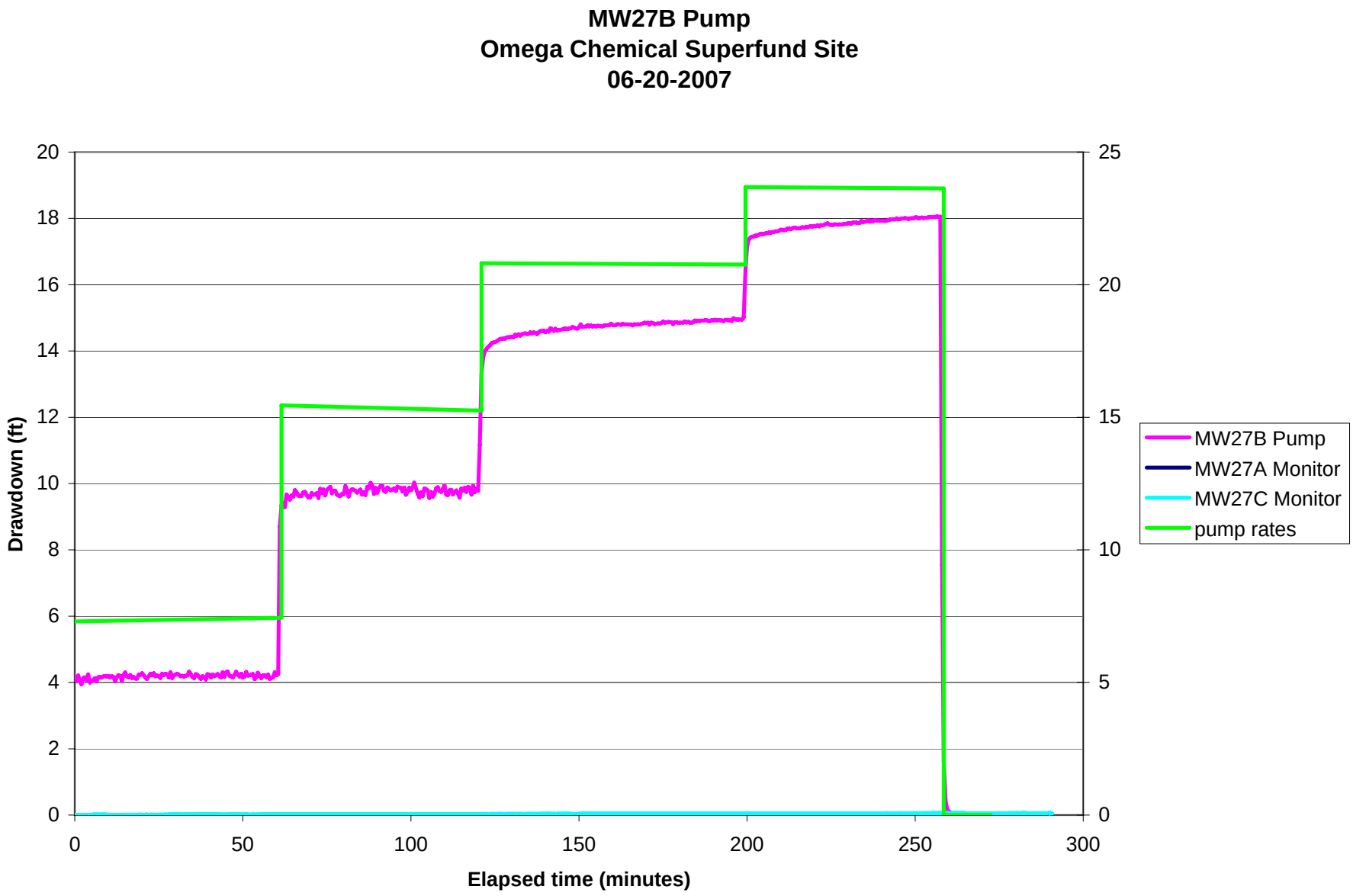

MW27A Pump
Omega Chemical Superfund Site
06-21-2007
Drawdown (ft)
Elapsed time (minutes)
0
2
4
6
8
10
12
14
16
18
0
5
10
15
20
25
30
0
50
100
150
200
250
300
350
MW27A Pump
MW27B Monitor
MW27C Monitor
pump rates

MW27B
Omega Chemical Superfund Site
06-20-07

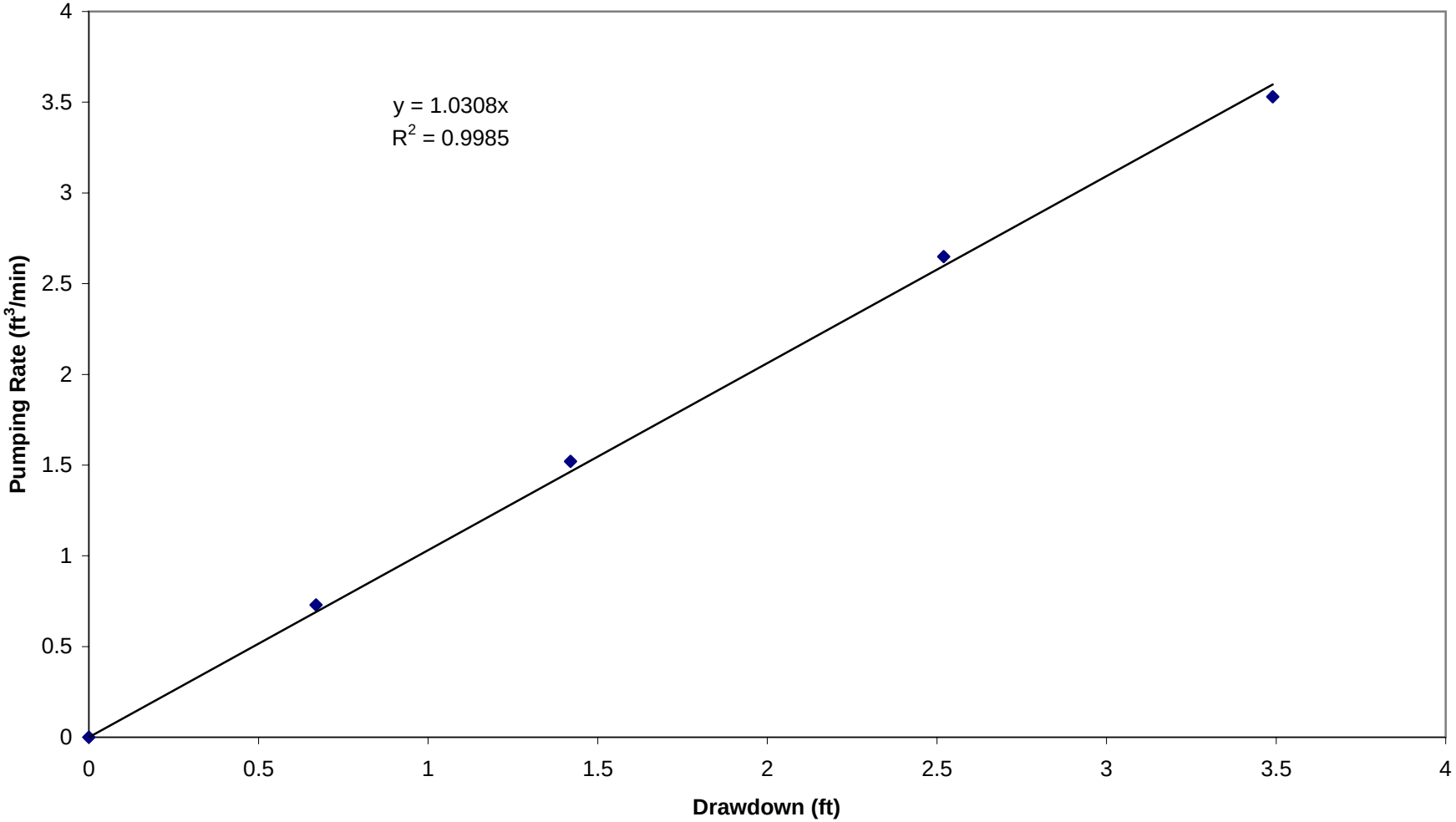


MW27B Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
06-20-07

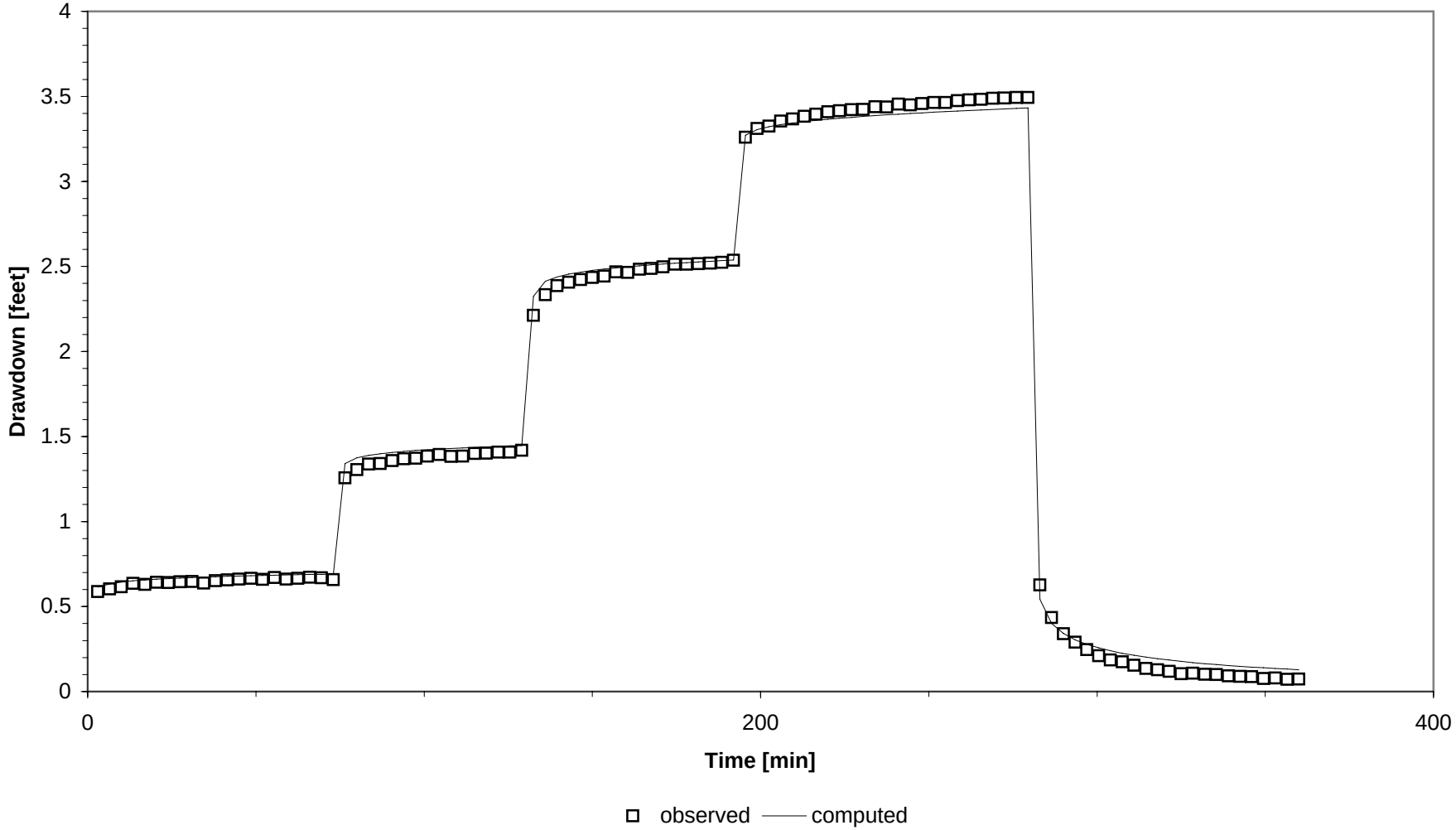


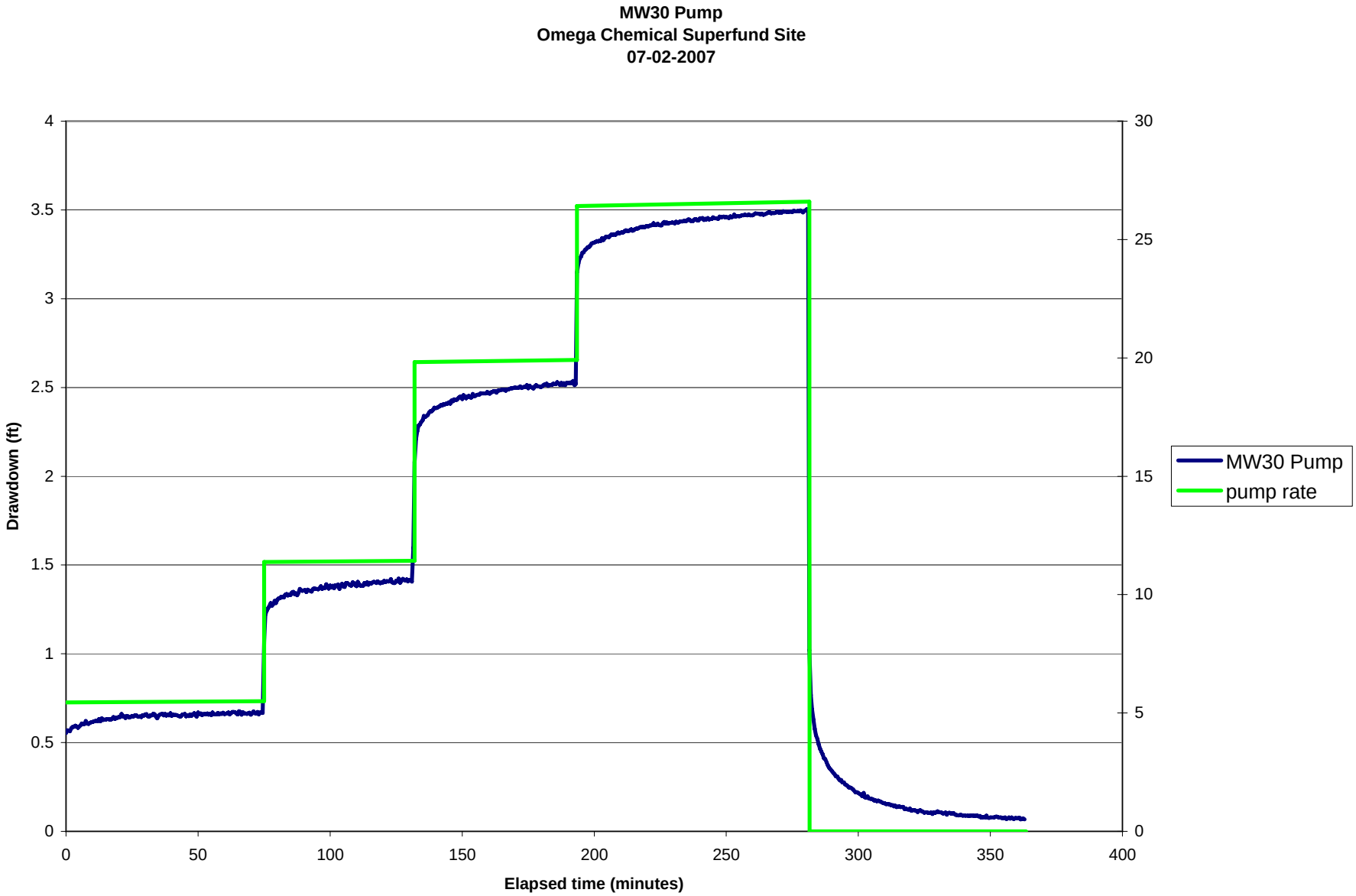

MW27B Pump
Omega Chemical Superfund Site
06-20-2007
Drawdown (ft)
Elapsed time (minutes)
0
2
4
6
8
10
12
14
16
18
20
0
5
10
15
20
25
0
50
100
150
200
250
300
MW27B Pump
MW27A Monitor
MW27C Monitor
pump rates

MW30
Omega Chemical Superfund Site
07-02-07



MW30 Step Pumping Test - Results from GWF
Omega Chemical Superfund Site
07-02-07




MW30 Pump
Omega Chemical Superfund Site
07-02-2007
Drawdown (ft)
Elapsed time (minutes)
0
0.5
1
1.5
2
2.5
3
3.5
4
0
5
10
15
20
25
30
0
50
100
150
200
250
300
350
400
MW30 Pump
pump rate