

### Pump Cast: Stn 2

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008635	37896.8	37896.8	38608.4	711.6
	19008636	29516.4	29516.4	29922.6	406.2
	19008637	68922.6	68922.6	70050.8	1128.2
2	19008629	59384.2	59384.2	60241.0	856.8
	19008630	25401.4	25401.4	25809.6	408.2
	19008631	84321.1	84321.1	85585.7	1264.6
3	19008656	78017.6	78017.6	78742.9	725.3
	19008657	41547.3	41547.3	41886.1	338.8
	19008658	126731.4	126731.4	127823.1	1091.7
4	19008638	26661.7	26661.7	27398.4	736.7
	19008639	26451.9	26451.9	26762.3	310.4
	19008640	54135.7	54135.7	55191.5	1055.8
5	20007741	45267.1	45267.1	45536.5	269.4
	20007742	37318.1	37318.1	37393.0	74.9
	20007743	82383.8	82383.8	83951.7	1567.9
6	20008125	18408.5	Not Depl.	18408.5	0.0
	20008126	25363.8	Not Depl.	25363.8	0.0
	20008127	44858.0	Not Depl.	44858.0	0.0
7	20007747	24458.0	Not Depl.	24458.0	0.0
	20007748	12025.0	Not Depl.	12025.0	0.0
	20007749	44450.7	Not Depl.	44450.7	0.0
8	20007750	67860.9	Not Depl.	67860.9	0.0
	20008101	43520.3	Not Depl.	43520.3	0.0
	20008102	119829.5	Not Depl.	119829.5	0.0
9					
10					
11					
12					

Dates Y/M/D and times in local time (and GMT)

GMT=LCL+ 5

Date 2013-10-31 (2013-11-01)  
 Event 4037  
 Station 2  
 Cast 3  
 Water depth 122 m  
 Delay duration 00:45:00  
 Pump duration 04:00:00  
 Trigger time 19:40 (00:40)  
 Pumps on 20:25 (01:25)  
 Pumps off 00:25 (05:25)  
 First pump in water 19:20 (00:20)  
 Last pump in water 20:05 (01:05)  
 Time at target depth 20:08 (01:08)  
 Water below pinger ~10m  
 Messenger drop NA  
 Recovery begins 00:35 (05:35)  
 All aboard 00:46 (05:46)

**Post deployment download information**

Pump ID	Nisk	Nom depth	GT#	Low (rest) voltage	Error msg	Vol pumped (l)
CTD		108	NA			
1		108	2276	25.7(31.8)		1311
2		70	2277	24.5(31.8)	changed bat.	1483
3		55	2278	25.9(31.9)		1269
4		38	2279	25.7(31.8)		1358
5		15	2280	27.3(31.9)		1647
6	Not depl.		NA			
7	Not depl.		NA			
8	Not depl.		NA			

**Notes**

Shallow shelf station with multiple mid-water particle features & BNL. MAPRs deployed on Pumps 1, 2 & 3. DBs on Pump 1 in tupperwares Pump 1 hung via shackle from end of wire and CTD/pinger attached to bottom of Pump 1. Pump 1 QMA and Supor heads attached via extended tubing at DB "angel wing" positions to prevent shackle/wire from damaging heads. DBs at center of Pump 1 nearer shackle. Flowmeters not re-read prior to deployment. Final wire out: 108m Pump 5 candelabra tubing noted as disconnected at recovery. Heads collected small volumes (74.9, 269.4L) while Mn cartridge collected total flowmeter reading (1567.9L)