

**Acropak-200 Cast Sheet**

**SUPER STATION**

Station # Station 36  
 Deep, Mid, Shallow, Deep  
 Cast # Cast 1  
 Event # 4457  
 Date 12/16/13  
 ODF Salinity Box F  
 ODF Nutrients Rack Purple

**GEOTRACES 10251    GEOTRACES 10253    GEOTRACES 10255**

Acropak: <u>Da Vinci</u>	Acropak: <u>Da Vinci</u>	Acropak: <u>Da Vinci</u>
Sampler: <u>CZ</u>	Sampler: <u>CZ</u>	Sampler: <u>CZ</u>
Depth: <u>5125</u>	Depth: <u>5100</u>	Depth: <u>5000</u>
Caro Pos: <u>1</u>	Caro Pos: <u>3</u>	Caro Pos: <u>5</u>
Btl #: <u>21</u>	Btl #: <u>29</u>	Btl #: <u>31</u>
Notes:	Notes:	Notes:

**Sampling Order**

ODF Salinity 250 mL  
 ODF Nutrients 30 mL  
 Resin - Unfiltered Resing - Al 100 mL  
 Resing - Mn 100 mL  
 Saito, Co no headspace 2 x 60mL  
 Shiller - Ga 125 mL  
 Moffett - Fe ~~(10)~~ total 30 mL 250 mL  
 Sedwick - dFe 2 x 125mL  
 Barbeau - Cu sp freeze 900 mL  
 Buck - Fe sp freeze 450 mL  
 Bruland - metals 500 mL  
 Wu - metals 500 mL  
 Wu - colloids 500 mL  
 Flegal - Pb shallow 1000 mL  
 Boyle - Pb mid/deep 2000 mL  
 John - isos shallow 4000 mL  
 John - isos mid/deep ~~2000~~ mL  
 \*Cutter - As/Sb - 250 mL  
 from 10251 10253 10263 only!

**GEOTRACES 10257    GEOTRACES 10259    GEOTRACES 10261**

Acropak: <u>Da Vinci</u>	Acropak: <u>Da Vinci</u>	Acropak: <u>Da Vinci</u>
Sampler: <u>CZ</u>	Sampler: <u>CZ</u>	Sampler: <u>CZ</u>
Depth: <u>4750</u>	Depth: <u>4500</u>	Depth: <u>4000</u>
Caro Pos: <u>7</u>	Caro Pos: <u>9</u>	Caro Pos: <u>11</u>
Btl #: <u>33</u>	Btl #: <u>37</u>	Btl #: <u>1</u>
Notes:	Notes:	Notes:

**GEOTRACES 10263    GEOTRACES 10265    GEOTRACES 10267**

Acropak: <u>Tesla</u>	Acropak: <u>Tesla</u>	Acropak: <u>Tesla</u>
Sampler: <u>CP</u>	Sampler: <u>CP</u>	Sampler: <u>CP</u>
Depth: <u>3500</u>	Depth: <u>3250</u>	Depth: <u>3000</u>
Caro Pos: <u>13</u>	Caro Pos: <u>15</u>	Caro Pos: <u>17</u>
Btl #: <u>3</u>	Btl #: <u>5</u>	Btl #: <u>7</u>
Notes: <u>- lost ~2L from leaky Ball</u>	Notes:	Notes:

**GEOTRACES 10269    GEOTRACES 10271    GEOTRACES 10273**

Acropak: <u>Tesla</u>	Acropak: <u>Tesla</u>	Acropak: <u>Tesla</u>
Sampler: <u>CP</u>	Sampler: <u>CP</u>	Sampler: <u>CP</u>
Depth: <u>2900</u>	Depth: <u>2800</u>	Depth: <u>2700</u>
Caro Pos: <u>19</u>	Caro Pos: <u>21</u>	Caro Pos: <u>23</u>
Btl #: <u>11</u>	Btl #: <u>13</u>	Btl #: <u>19</u>
Notes:	Notes:	Notes:

# Geotraces R/V Thompson Membrane Sampling Log

Sample Date: 12/16/13  
 UTC Start: 0058  
 UTC End: 0448

Station/Cast: Station 36 Cast 1	GT Event #: 4457											
Shallow/Mid/Deep (circle one)	Nuts Rack: Purple			Salt Rack: F			Samplers: LR/SISR		Notes:			
Geotraces #:	10252	10254	10256	10258	10260	10262	10264	10266	10268	10270	10272	10274
GoFlo Number:	2	4	6	8	10	16	18	24	26	28	30	36
Depth (m):	5125	5100	5000	4750	4500	4000	3500	3250	3000	2900	2800	2700
Filter Holder #:	1	2	3	4	5	6	7	8	9	10	11	12
Filter diameter:	25mm											
Position #:	2	4	6	8	10	12	14	16	18	20	22	24
Filtered Volume (L)	1* 1* 1* 1* 1* 1* 1* 1* 1* 1* 1* 1*											
Waste:	3.87	7.83	6.48	7.98	6.48	5.28	6.33	8.06	6.57	8.04	6.80	8.02
Drawn:	3.44	2.25	3.69	2.50	3.69	2.50	3.44	2.50	3.69	2.50	3.69	2.50
Total:	7.31	10.08	10.17	10.48	10.17	7.78	9.77	10.56	10.26	10.54	10.49	10.52
Start Time:	0536	0535	0534	0533	0532	0531	0532	0531	0530	0529	0528	0527
End Time:	651	717	717	723	717	0646	712	718	713	712	712	712

• Supor Membrane 0.45 µm

Sampling Order:

Redox:

Pressurize

Cutter (S) 2 x 60mL (Syr.)

Cutter (I) 2 x 60mL (Syr.)

Moffett (Fe) 2 x 60mL (Syr.)

Unfiltered:

ODF Nuts 1 x 30mL

ODF Salts 1 x 250mL

Shake

Twining-Surface 1 x 2000mL

Twining-DCM 1 x 250mL

Part. Membrane:

Hammerschmidt (Hg) 1 x 2000mL

Lamborg (T. Hg) 1 x 250mL

Cutter (Nnuts) 1 x 125mL

Cutter (As/Sb) 1 x 250mL

Cutter (Se) 1 x 1190mL

Notes: \*\*All filtered volume is 3.815L

2.25  
1.19  
3.44

2.25L 3.44L  
0.5 3.69

\* Process Blanks - 10252 + 10262

Exp 13 2.02L → FH 27 2.0L

New Acropak "But" used for 10262 then 10252.

See how PB looks with no previous particle load on Acropak

As/Sb taken from membranes: 10266-10274  
10256-10262

All filters from Fish Batch (4) (for 1st time)

Some  
Taken on Acropak side

Only for # 10272 10264 10254  
10268 10260 10252