

May 9 2011

AVUCIT - NO SOUNDK

UNICIT - NO CKUMM

POUR GRAB

335742

POUR

34

30.247N

77

24.882W

1300 2000

Surface

335743

Bottle

Surface

335744

Bottle

335745

9.4m

Surface

Bottle

335746

1.4m

Surface  
Bottle

Grab

oyster shells

Surface

335747

4.2m

Bottle

335748

3.0m

Grab

335749

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335750

Surface Bottle 3.3m

335751

Grab 3.2m

335752

Surface Bottle 3.3m

335753

Grab 3.1 sand, oyster shells

335754

Pole Core 1.4 m sandy mud

335755

Surface Bottle 3.1m

335756

Grab 3.1m

335757

Pole Core 0.8m

Pole Core  
(no sample  
hard bottom)

335758

Surface Bottle 2.5m

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| Id # | Filter # | Filter Vol (mls) | Comments |
|------|----------|------------------|----------|
| 5743 | 19136    | 1000             |          |
| 744  | 137      | 1000             |          |
| 745  | 138      | 700              |          |
| 746  | 139      | 700              |          |
| 747  | 141      | 700              |          |
| 748  | 142      | 700              |          |
| 750  | 143      | 600              |          |
| 752  | 144      | 600              |          |
| 755  | 145      | 600              |          |
| 758  | 146      | 600              |          |

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DAY 2

455T  
140230  
on  
140432  
off

455T/DFC 4.2m  
34 33.130  
77 21.305

141233  
on  
141349  
off

455T/DFC 4.7m  
34 33.586  
77 21.445

141926  
on  
142116  
off

455T/DFC 5.1m  
34 33.110  
77 20.584

335759

Bottom  
Bottle

34 33.125  
77 20.600

335760

Surface  
Bottle

4.7m

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| Id #                   | Filter # | Filter Vol<br>(ml) | Comments |
|------------------------|----------|--------------------|----------|
| 147<br><del>9407</del> | 335772   | 600                |          |
| 1215                   | 335772   | 200                |          |
| 9148                   | 335770   | 600                |          |
| 19149                  | 335771   | 1000               |          |
| 19151                  | 3357703  | 900                |          |
| 1216                   | 335773   | 200                |          |
| 19152                  | 335765   | 700                |          |
| 19153                  | 335766   | 700                |          |
| 19154                  | 335767   | 700                |          |
| 19155                  | 335768   | 700                |          |
| 1217                   | 335768   | 100                |          |
| 19156                  | 335769   | 700                |          |
| 19157                  | 335760   | 700                |          |
| 1218                   | 335769   | 100                |          |
| 19158                  | 335761   | 600                |          |

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L1557 on  
150215

May 10, 2012

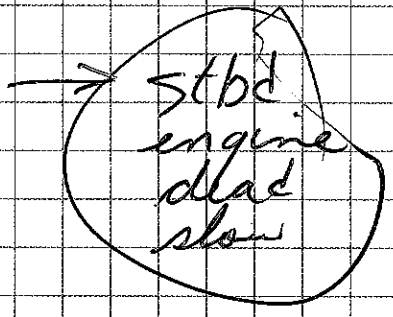
Start Drift Station  
L1557/PFC Frame  
w/m deep

150804 passing through "front"

335761 Surface Bottle 4.5m

151427 steam toward centre of channel

151735 " " "



335762 Bottom ~~Surface~~ Bottle 4.6

335763 Surface Bottle 4.8

152340 steam toward centre of channel

335764 bottom bottle

335765 surface bottle

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| Id #   | Filter #              | Filter Vol<br>(ml's) | Comment |
|--------|-----------------------|----------------------|---------|
| 335759 | 19159                 | 600                  |         |
| 335759 | 1219                  | 150                  |         |
| 335762 | 19161                 | 600                  |         |
| 335763 | 19162                 | 600                  |         |
| 335763 | <del>19162</del> 1221 | 100                  |         |
| 335764 | 19163                 | 600                  |         |
| 335775 | 19164                 | 750                  |         |
| 775    | 1222                  | 100                  |         |
| 335774 | 19165                 | 600                  |         |
| 335778 | 19166                 | 600                  |         |
| 778    | 1223                  | 100                  |         |
| 335779 | 19167                 | 600                  |         |
| 335777 | 19168                 | 600                  |         |
| 777    | 1224                  | 100                  |         |
| 335776 | 19169                 | 600                  |         |
| 335780 | 19171                 | 600                  |         |
| 780    | 1225                  | 100                  |         |

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153000 drifter launched nearby  
by another group

153207 astern to centre of channel

153458 " " "

153729 " " "

335766 Bottom Bottle 6.5m

335767 Surface Bottle 6.3m

335768 Bottom Bottle 1.5m

335769 Surface Bottle

155738  
package  
recovered  
155754  
455T  
off

shallow!

335770 Bottom Bottle

335771 Surface Bottle

160905 Profile  
near Buoy  
Entrance Outside plume  
455T  
on  
161034  
455T  
off

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| ID #   | Filter # | Filter Vol (mls) | Concnet |
|--------|----------|------------------|---------|
| 35782  | 19172    | 600              |         |
| 35784  | 19173    | 600              |         |
| 35792  | 19174    | 600              |         |
| 792    | 1226     | 100              |         |
| 35796  | 19175    | 600              |         |
| 335794 | 19176    | 600              |         |
| 794    | 1227     | 100              |         |
| 35795  | 19177    | 600              |         |
| 335792 | 19178    | 600              |         |
| 792    | 1228     | 100              |         |
| 335793 | 19179    | 600              |         |
| 335783 | 19181    | 600              |         |
| 783    | 1229     | 100              |         |
| 335781 | 19182    | 600              |         |
| 335800 | 19183    | 600              |         |
| 800    | 1231     | 100              |         |
| 335801 | 19184    | 600              |         |

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Profile 455T/DFC

455T

162152

on

162253

off

6.1m

34 31.320

17 19.877

335772

Bottom Bottle 6.3m

335773

Surface Bottle 6.2m

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| ID #   | Filter # | Filter Vol<br>(ml's) | Comment |
|--------|----------|----------------------|---------|
| 335791 | 19185    | 600                  |         |
| 791    | 1232     | 120                  |         |
| 335790 | 19186    | 600                  |         |
| 335785 | 19187    | 600                  |         |
| 785    | 1233     | 100                  |         |
| 335786 | 19188    | 600                  |         |
| 335789 | 19189    | 600                  |         |
| 789    | 1234     | 100                  |         |
| 335788 | 19191    | 600                  |         |
| 335798 | 19192    | 600                  |         |
| 798    | 1235     | 100                  |         |
| 335799 | 19193    | 600                  |         |

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May 11, 2012

ANCHOR STATION

34° 32.802' N  
77° 20.721' W      5.4m

0830 LISST/DFC      strong ebb!

① 083249 LISST off

335774      Surface Bottle

085938 LISST on

② 090151 LISST off

0919 HYPERPROBE  
DEPLOYED

092908 LISST on

③ 093122 LISST off

335775      Surface Bottle      ebb slowing

093230      BOSS PROFILE X2

093700      "      "      x2      (c filter)

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May 11 2012

- ④ 095950 LISST on bird shit on Brent!  
 1100200 LISST off
- 100330 BOSS PROFILE x2 (slack water) 5.4m  
 100740 " " " (c filter)
- 
- ⑤ 102906 LISST on  
 103124 LISST off small inward set  
 5.6m
- 335776 Surface Bottle  
 103306
- 103905 BOSS PROFILE x2  
 104730 " " " c filter
- 
- ⑥ 105952 LISST on flood  
 110141 LISST off 5.4m
- 110423 BOSS PROFILE x2 dragging anchor { 34 32.841' N }  
 110812 " " " with filter slightly { 77 20.750' W }
- 1124  
 "little puffy clouds" over past 1/2 hour
- 
- ⑦ 113017 LISST on  
 113157 LISST off
- 335777 Surface Bottle dragging anchor { 34 32.854 }  
 113346 slightly { 77 20.765 }  
 5.4m
- 114152 BOSS PROFILE x2 with filter  
 114713 " " x2 w/o filter

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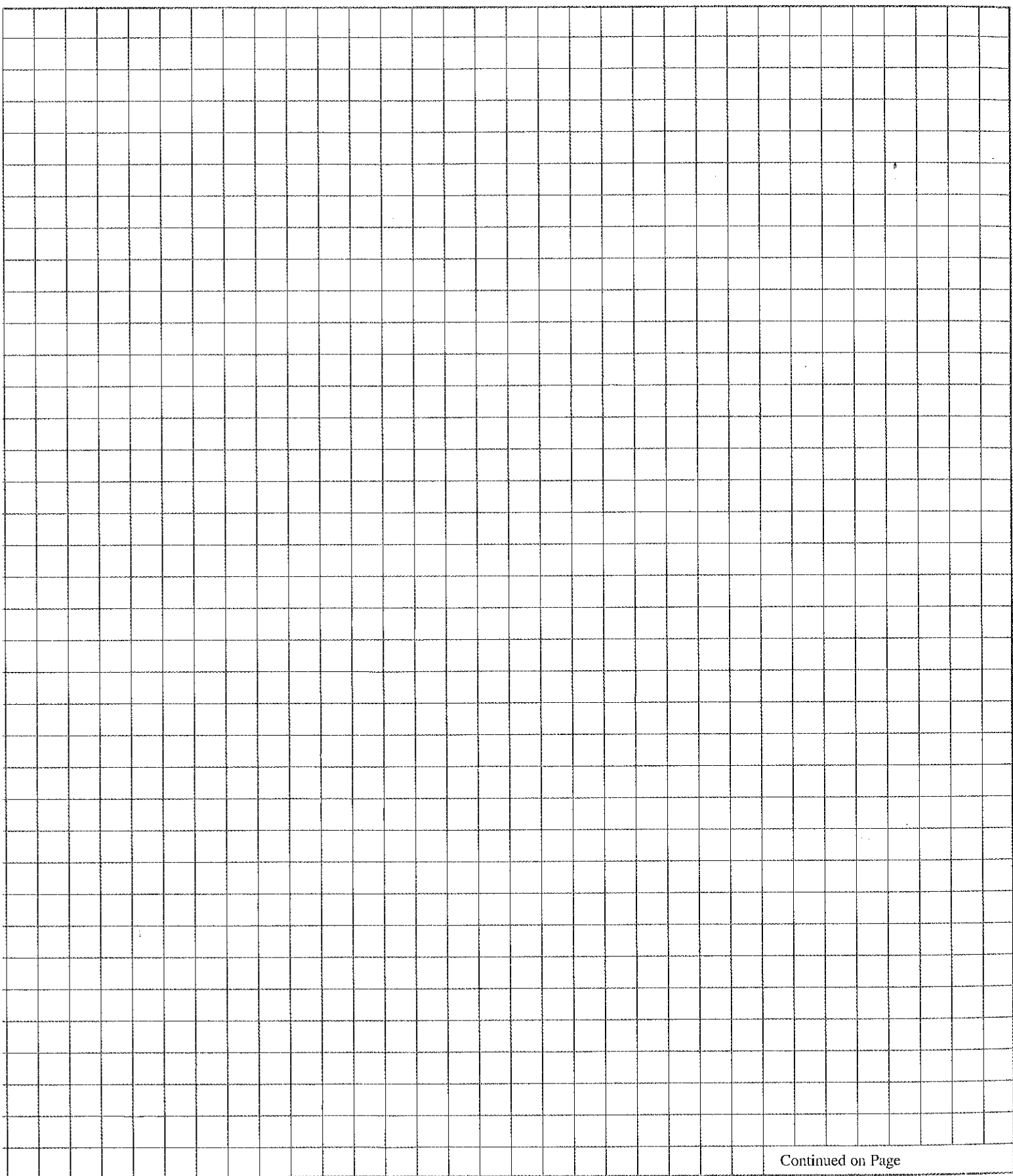
Read and Understood By 1140 anchor reset

34 32.866 5.5m  
77 20.783 Date

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⑧ 115841 LISST on  
 120143 " " off  
 120343 Boss profile x2 without filter  
 120658 " " " with filter

120108 dragging anchor  
 May 11 2012  
 120209  
 34 32.903  
 77 20.809

drifting

anchor fouled on another Danforth!

121350 dye patch moves through!  
 121622 anchor reset  
 34 32.880  
 77 20.777 5.6m

⑨ 122927 LISST on  
 123125 LISST off

123360 Boss profile x2 with filter  
 123748 " " x2 without filter

335778 Surface Bottle  
 123625

Hyperprobe logging  
 124145  
 124224  
 AH.raw

⑩ 130051 LISST on  
 130157 LISST off

130512 Boss profile x2 without filter  
 130919 " " " with filter

Hyperprobe logging  
 130228  
 131028  
 AI.raw

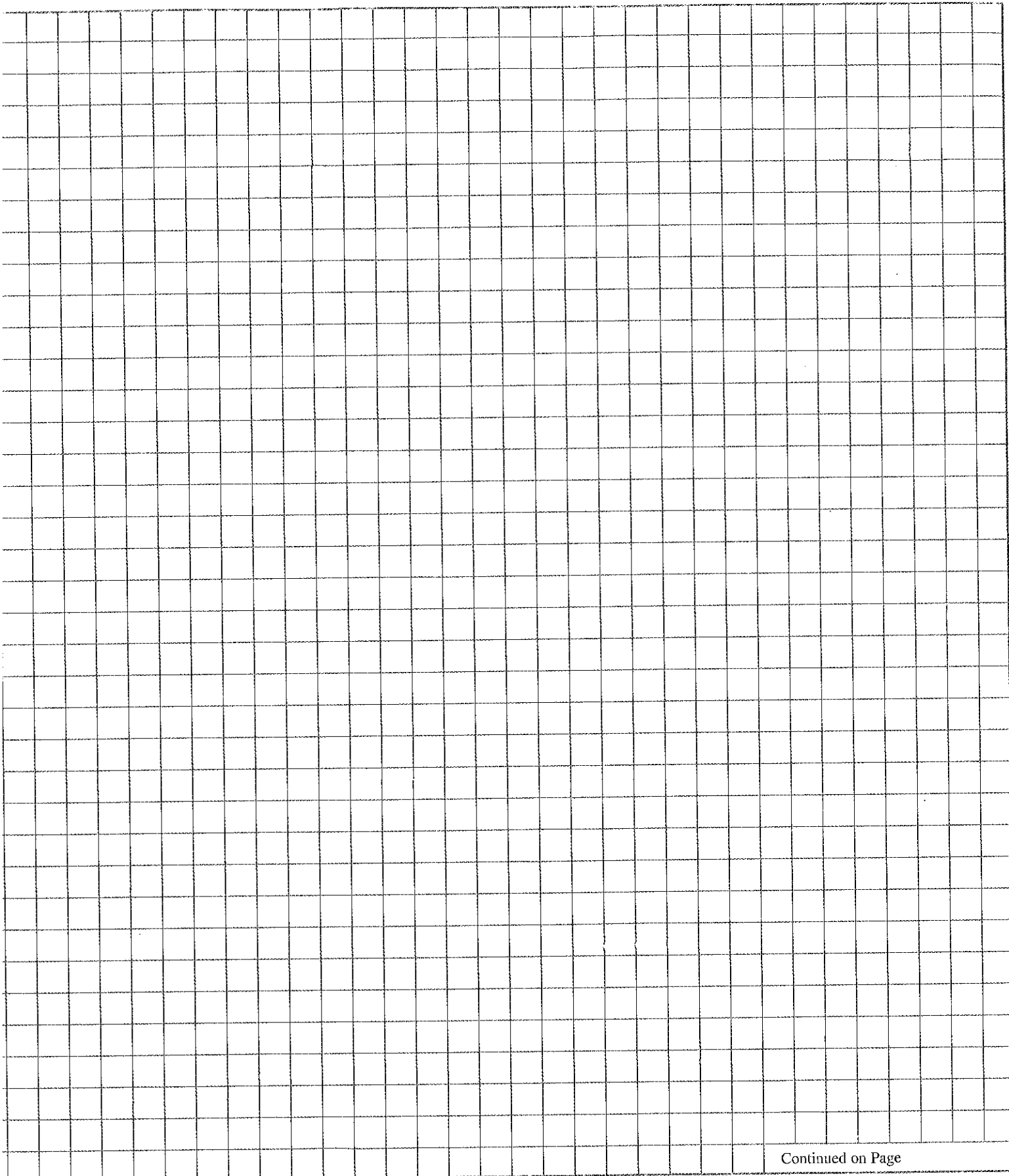
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May 11, 2012

⑪

132946 LISST on  
133140 LISST off

133245 Boss optical profile with filter x2  
133632 " " " without filter

335779 Surface Bottle  
133535

140204

⑫

135836 LISST on  
140120 LISST off

34 32.880 5.6m  
77 20.778

140230 Boss optical profile x2 without filter  
140701 " " " x2 with filter

⑬

142858 LISST on  
143142 LISST on

flood slowing

335780 Surface Bottle  
142725

143307 Boss optical profile x2 with filter  
143631 " " " x2 without filter

⑭

150018 LISST on  
150206 LISST off

~ Slack water

150322 Boss optical profile x2 without filter  
150715 " " " with filter

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May 11 2012

15

152806 LISS Tom  
153024 LISS T off

Slack Water

335781 Surface Bottle

153007

153307 Boss Optical Profile x2 with filter  
153719 " " " " x2 without filter

335782 153800 Bottom Bottle

16

155839 LISS Tom  
160013 LISS T off

Start of Ebb!

160057 34 32.853 5.0m  
77 20.757

160240 Boss Optical Profile x2 without filter  
160641 " " " " with filter

"a few white fluffy clouds"

17

163109 LISS Tom  
163301 LISS T off

163335 Boss Optical Profile x2 with filter  
163741 " " " " without filter

335783 Surface Bottle

163600

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(18)

165957 LISST on  
170146 LISST off

ebb increasing

170228 Boss Optical Profile without filter (x2)  
" " " with filter (x2)

(19)

172855 LISST on  
173030 LISST off

173109 anchor dragging  
(strong ebb)

335784 173159 Surface Bottle

173121 Boss Optical Profile with filter x2  
173514 " " " without filter x2

173414  
34 32.821 anchor  
77 20.732 caught  
4.8m

(20)

175800 LISST on  
180000 LISST off

anchor dragging!

180040 Boss Optical Profile without filter x2  
180500 " " " with " "

180551

34 32.806

77 20.718

5.3m

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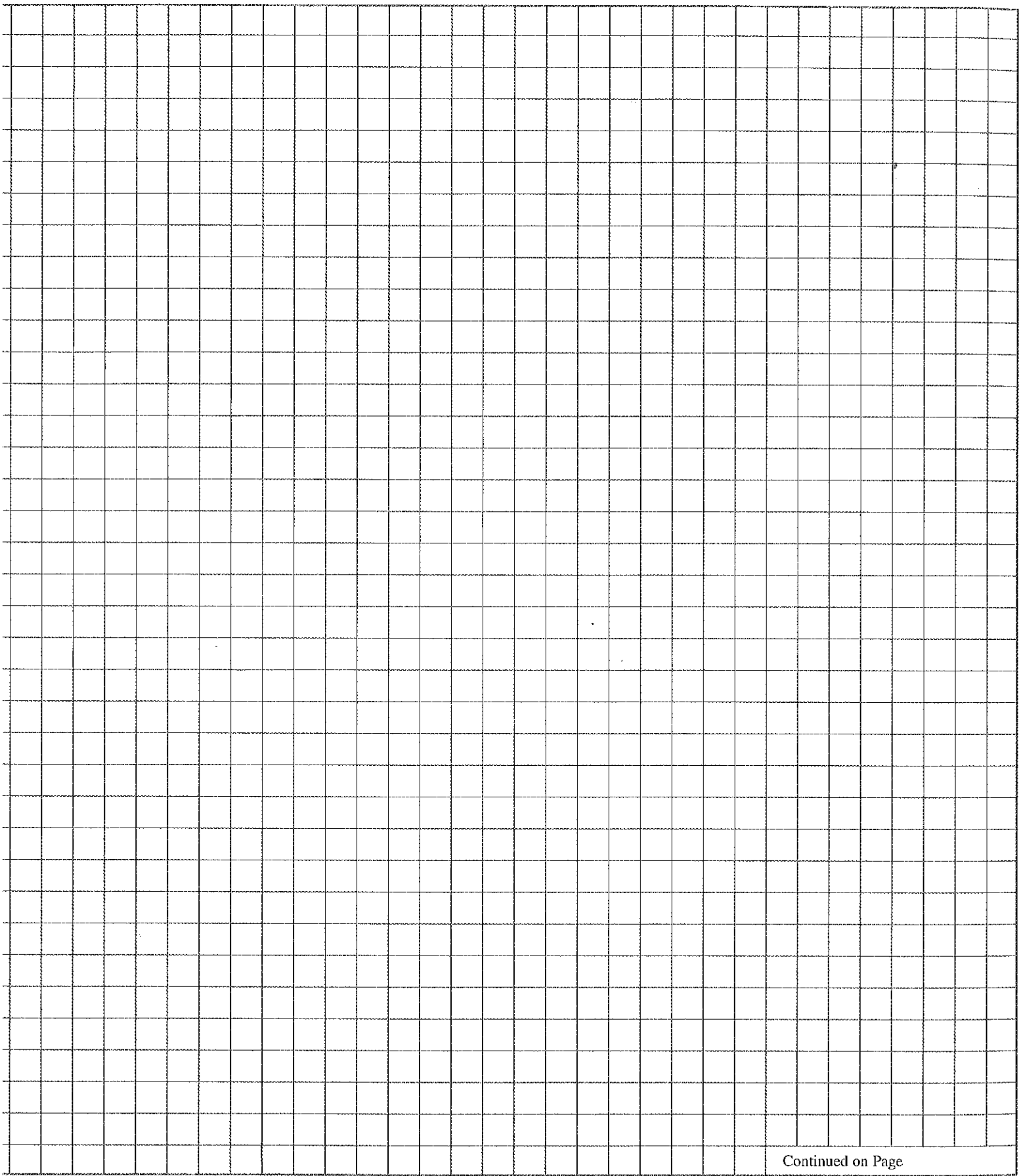
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May 12, 2017DYE RELEASE080210 LISS7 on  
080413 LISS7 off

Hyper Pro Deployed 080445

drifting; ebb

080830 'Dye Released'

080821 Boss Optical Profile x2 without filter  
081314 " " " with filter082520 LISS7 on  
{ drifting with  
package ~ 1 m depth }  
(depth changing)  
package depth altered  
as depth permits082551 HyperPro logging  
AC row  
probe just on  
edge of dye  
patch083155 Boss Optical Package with filter  
drifting with package ~ 1 m

083257 logging stopped/restarted

083433 LISS7/PFC Package lowered

083604 Boss Optical Package without Filter

083801 LISS7/PFC Package lowered

083854 Hyper pro logging started AD row

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May 12, 2012

084149 Hyperpro logging started AE, raw

084600 " " " AF, raw

084820 LISST off

085130 motor upstream to ~centre of dye patch

085214 Hyper Pro deployed in dye patch  
AG, raw

085346 Boss Optical Package without filter

085500 Drifting

085733 Boss Optical Package with filter

091017 LISST on

091455 LISST off

left on!

101414 LISST on

110450 LISST off

101437 ZIP deployed  
AH, raw

34 29.969 ADM  
77 25.859

light overcast

335785 Surface Bottle

101728

335786 Bottom Bottle

102001

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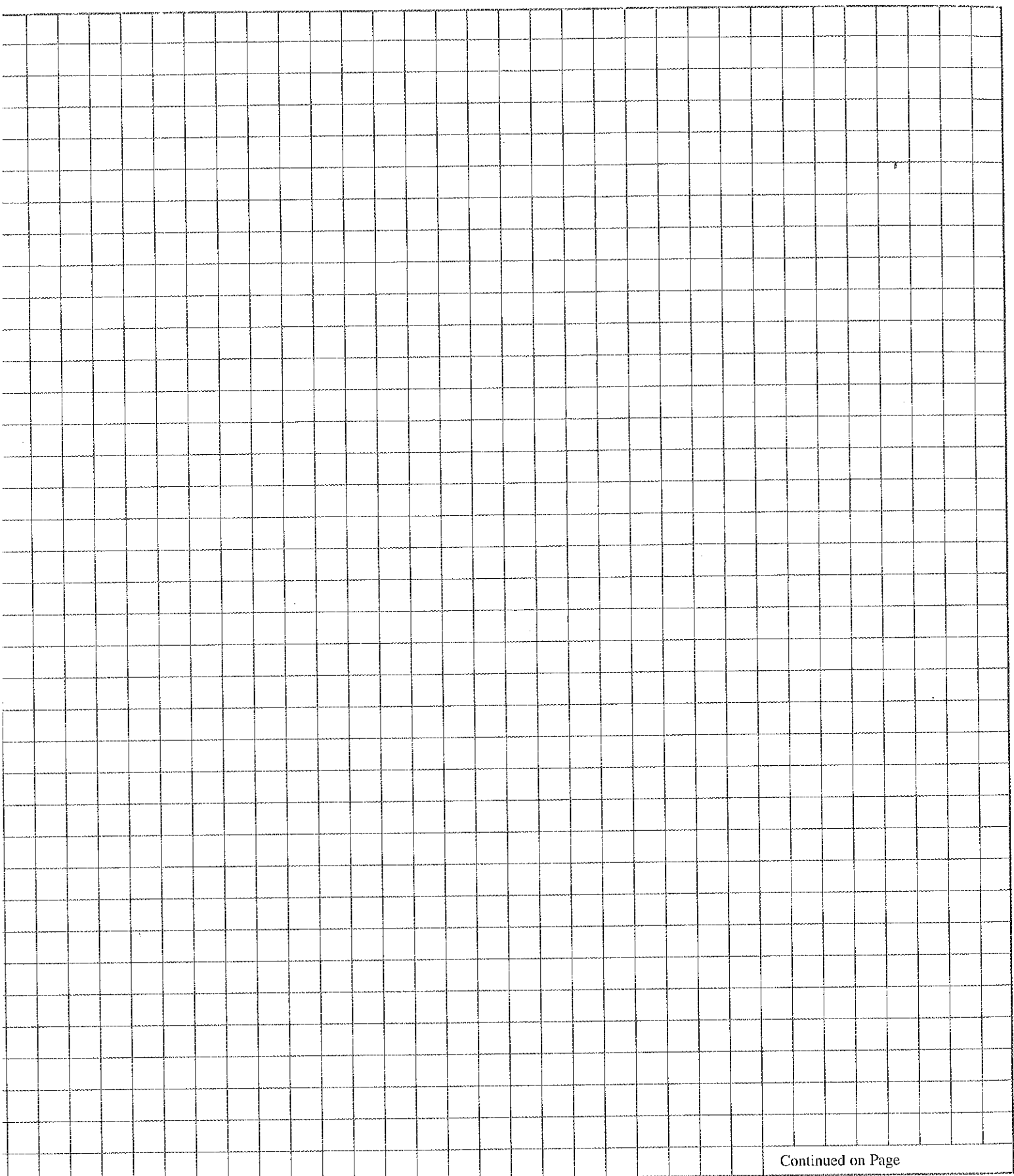
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102055 Boss Optical Package with filter x2  
"a lot of bubbles"

102702 Boss Optical Package without filter x2

335787 Pole Core 34 29.984 4.6m  
77 25.787

110551 LISST on  
110936 LISST off

110606 Hyper Pro  
A.I. raw

111118 Boss Optical Package x2  
without filter

34 33.170 3.6m  
77 18.460

111402 Boss Optical Package x2  
with filter

335788 Bottom Bottle

335789 Surface Bottle

112905 LISST on  
113247 LISST off  
Boss Optical Package x2  
with filter

113000 Hyper Pro deployed  
A.I. raw

113839  
2nd

113257 Boss Optical Package x2  
without filter

34 33.251 3.0m  
77 21.171  
"thin clouds"

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Signed 113800 Power Failure  
Hyper Pro restart  
A.I. raw  
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335790

Surface Bottle

113948

34 33.226

2.7m

335791

Bottom Bottle

77 2.258

114109

115835

WSST on

120243

WSST off

34 34.534

4.0m

77 24.674

120230

Boos Optical Package x2  
without filter

120102

Hyper Pro

120546

Boos Optical Package x2  
with filter

AL raw

"thin clouds"

335792

Surface Bottle

120427

335793

Bottom Bottle

120526

130130

WSST on

130421

WSST off

130130

Hyper Pro

AM, raw

130450

Boos Optical Profile x2  
with filter

34

34.565

3.6m

130713

"  
" with filter

77

24.796

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335794

Surface Bottle

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130653  
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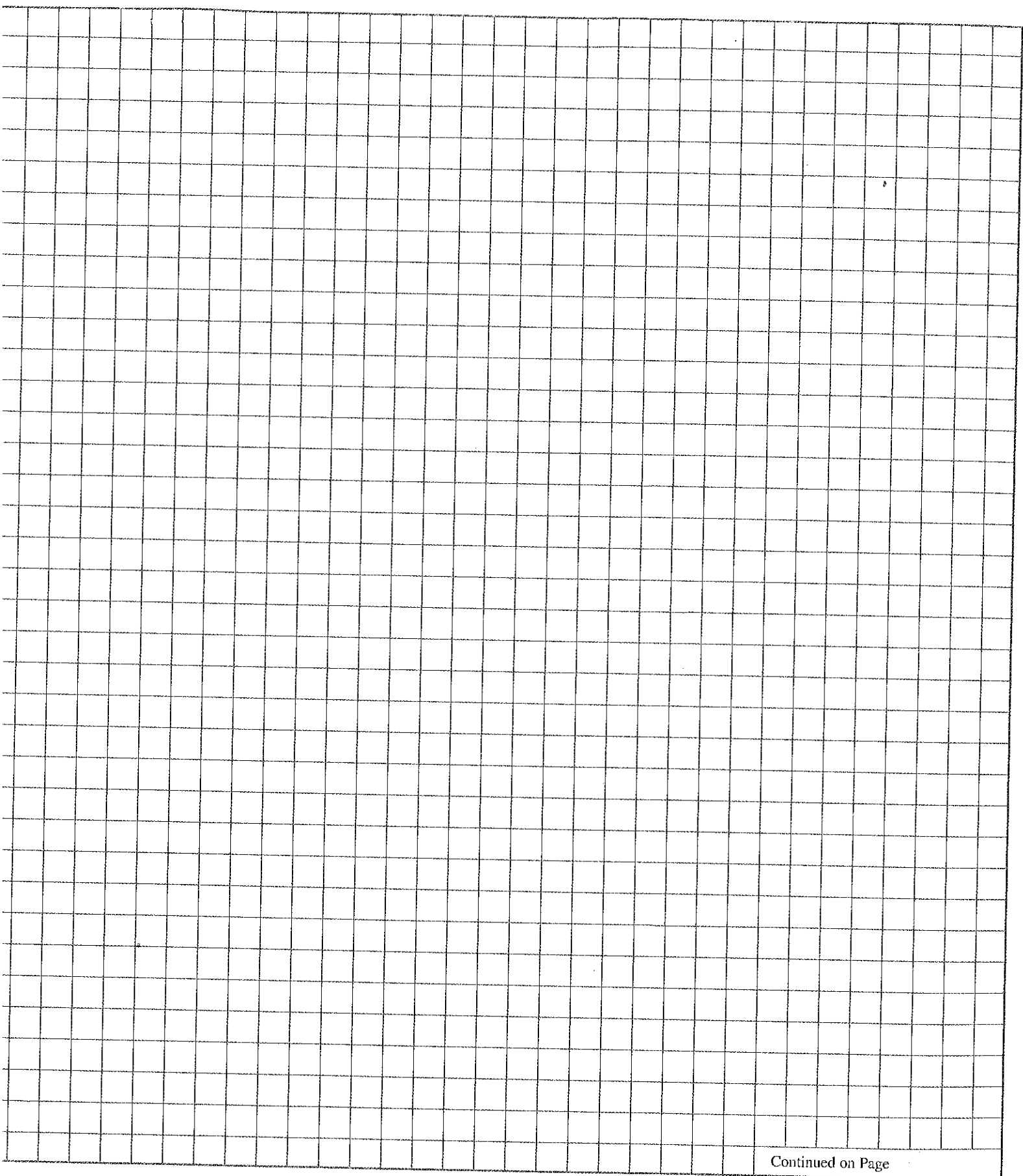
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132345 LISS7 on  
132636 LISS7 off

132400 Hyper Pro deployed  
AN.raw

132722 Boss Optical Profile NO filter x2 34 34.157 3.5m

133629 Boss Optical Profile with filter x2 77 22.304

335795 Surface Bottle

132830

134000 LISS7 on  
134404 LISS7 off

134028 Hyper Pro deployed  
A0.raw

134425 Boss Optical Profile without filter "thin high cloud"

134652 Boss Optical Profile with filter 34 33.223 4.6m  
77 21.140

335796 Surface Bottle

134545

135356 LISS7 on  
135748 LISS7 off

~~135406~~ Hyper Pro deployed  
~~135846~~ AP.raw AR.raw

strong  
flood!

34 32.753 5.6  
77 20.724

(no  
fuel)

no fuel retracked  
Boss Optical Profile w/o filter  
140157 Boss Optical Profile with filter

(generator out of fuel)

335797 Surface Bottle

140110

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141028 LISST on  
141431 LISST off

~1411 HyperPro deployed  
A5, raw

Boss Optical Package  
with no filter  
strong ebb!

34 32.264 7.6m  
77 20.501

335798

Surface Bottle

~1416

142335 LISST on  
142553 LISST off

34 31.585 2.8m  
77 20.344

142621 Boss Optical Package  
w/o filter

~1424 HyperPro deployed  
A1, raw

142830 Boss Optical Package  
with filter

335799

Surface Bottle

142750

144252 LISST on  
144718 LISST off

34 30.651 9.1m  
77 19.423

144641 Boss Optical Package  
w/o filter x2

Hyper Probe  
A0, raw

145246 Boss Optical Package  
with filter

335800

Surface Bottle

Re

335801

Bottom Bottle

144952  
Signed

Date

145325  
Signed

Date

| <u>obs</u> |      |            | <u>pred</u>     |            | <u>120513</u> |
|------------|------|------------|-----------------|------------|---------------|
| 120511     | 1000 | slack low  | 1200            | slack low  |               |
| 120512     | 1530 | slack high | <del>1730</del> | slack high |               |
|            |      |            | 1730            |            |               |

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May 13, 2012

# DVC Sighting Velocity Deployment

recovery complete  
164824

Nooring

34 32.8837  
(8931)  
77 20.7461  
(7602)

sounder V/S

3.7m post deployment

complete 114500  
slack water

114846

pod visible on sounder,  
appears upright!

## Profile

120449 LISST on  
120755 LISST off

120439 Hyper Pro deployed

34 32.895 5.3m  
77 20.791

20900 Boss Optical Package w/o filter x2  
21035 " " " with filter x2 day 3 AA, raw

## Drift Station

121804 LISST on 4.8m  
122152 LISST off  
121841 Drift Start  
122130 " " Stop

{ LISST w/m off bottom  
Boss Package 1.7m off bottom

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| <u>obs</u> |      |       |      |  | <u>pred</u>     | <u>120513</u> |
|------------|------|-------|------|--|-----------------|---------------|
| 120511     | 1000 | slack | low  |  | 1200            | slack low     |
| 120511     | 1530 | slack | high |  | <del>1930</del> | slack high    |
|            |      |       |      |  | 1730            |               |

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# DVC Sinking Velocity Deployment

Hooring

34 32.8837  
(8931)  
77 20.7461  
(7602)

saunders V/S

3.7m

post deployment

complete 114500

114846

slack water

pod visible on saunders,  
appears upright!

recovery complete  
164824

## Profile

120449 LISST on  
120755 LISST off

120439 Hyper Pro deployed

34 32.895 5.3m  
77 20.791

120900 Boss Optical Package w/ filter x2  
21035 " " with filter x2 day 3 AA, raw

## Drift Station

121804 LISST on  
122152 LISST off

4.8m

{ LISST 4m off bottom  
Boss Package 1.7m off bottom

121841 Drift Start  
122130 " Stop

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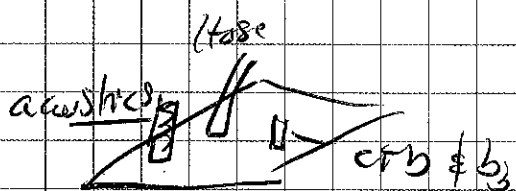
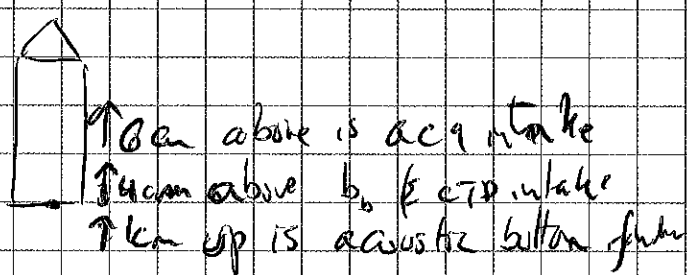
### Hyper pds

$E_u$ : 11.5cm below surface

$E_n$ : 12cm below surface

$E_d$ : an light mast  $\approx$  5m above surface

### CTD package



package top is 104cm from its bottom

Degassy  $\uparrow$  88cm above bottom

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May 13, 2012

Drift Station

124320 LISST on  
124539 LISST off

Drift Start 124320  
Drift Stop 124558

125809 LISST on  
130108 LISST off

125829 Drift Start Boat Package 1.5m  
off bottom

130010 Passing camera position

130122 Drift Stop

131406 LISST on  
131618 LISST off  
131510 NPS Buoy  
131547 Camera

131640 Drift Stop

152432 LISST on acoustic M/S  
152623 LISST off  
152540 passing camera  
152704 drift stop

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Date \_\_\_\_\_



May 13, 2012

Drift

153320 LISST ON

153450 passing yellow cat  
153536 passing camera

153637 LISST off

Drift

153945 LISST on

154041 passing yellow cat  
154135 passing camera

154208 LISST off

335802

Pole Core

155158

sounder

34 33.967

V/S

77 22.425

~ 1.5m

335803

Pole Core

155656

33.911

~ 1.5m

22.344

Drift

162813 LISST on

162920 passing yellow cat

163018 passing camera

163114

LISST off

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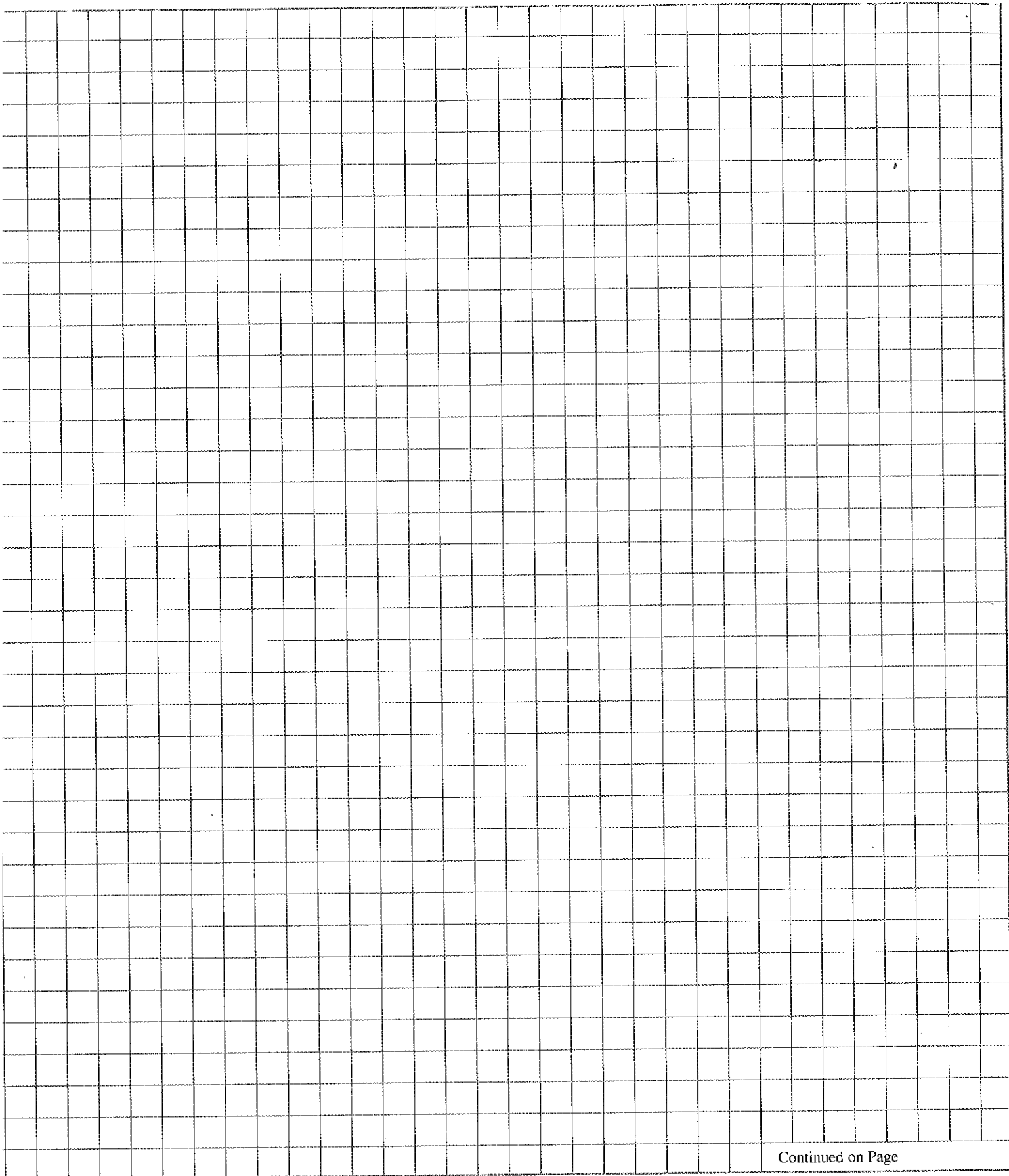
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Date

Project \_\_\_\_\_

Notebook No. \_\_\_\_\_

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Date

May 13, 2012

Drift Station

163735 LISSTon

163856 passing yellow cat

164017 passing camera

164110 LISST off

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fix camera buoy

34 328934

77 20 7648

1645 EDT

fix yellow cat

34 32 8642

77 20 7510

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camera Settling Column Sump

335804

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