

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator Tamara

Date (GMT) 08/03 → 08/03

CTD Cast# 002

Time (GMT) 0109 → 0159

Station ID# 002

Maximum Depth \_\_\_\_\_

Latitude	<u>2841.7</u>
Longitude	<u>8820.1</u>
Distance from Wellhead	<u>3.2 nm</u>

**Auxiliary Sensors**

\_\_\_\_\_ CDOM      \_\_\_\_\_ DO      \_\_\_\_\_ Altimeter      \_\_\_\_\_ Other

DO      VOA's (40 mL)      THC (1L)

Sampled By: \_\_\_\_\_

⊙ =  
didn't  
fire

Bottle #	Depth Sampled	DO	VOA's (40 mL)	THC (1L)
1	849		1	
2	751	2		
⊙ 3	751		3	
4	652		4	
5	550		5	
6	450		6	
⊙ 7	350	7		
⊙ 8	350		⊙ 8	
9	250		9	
⊙ 10	150		10	
11	64	11		
12	64	11	12	
Go-Flo	64			

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD / RB

Date (GMT) 09/03  
Time (GMT) 0347  
Maximum Depth 1510

CTD Cast# 003  
Station ID# 003

Latitude	<u>2843.4</u>
Longitude	<u>8819.4</u>
Distance from Wellhead	<u>2.5nm</u>

**Auxiliary Sensors**

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)      THC (1L)

Sampled By:

Bottle #	Depth Sampled				
1	1402		✓		
2	1297				
3	1203				
4	1121				
5	1088				
6	1062				
7	799		✓		
8	600				
9	399				
10	199				
11	99				
12	53		✓		
Go-Flo	55				

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 08/04

CTD Cast# 004

Time (GMT) 0103

Station ID# 004

Maximum Depth 1798.2

Latitude	<u>2841.8</u>
Longitude	<u>8813.5</u>
Distance from Wellhead	<u>7.8 nmi</u>

**Auxiliary Sensors**

CDOM

DO

Altimeter

Other

DO      VOA's (40 mL)    THC (1L)

Sampled By:

Bottle #	Depth Sampled				
1	1676			X	X
2	1501			X	X
3	1300		x1	X	X
4	1200			X	X
5	1100		x1	X	X
6	900			X	X
7 700	700			X	X
8 500	500		x2	X	X
9 500	500			X	X
10 300	301			X	X
11 100	100			X	X
12	52			X	X
Go-Flo	<hr/>				

Notes: 0125 stopped winch @ 903m for cool down → restarted @ 0136  
0144 winch cool down @ 1273m → restarted @ 0153

0231-start upward cast

Signature JMR

Date: 8/4/10

bottles 2, 3, 6 and 12 did not close #9 was not used 8 instead

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 08/05

CTD Cast# 006

Time (GMT) 0035 - 0204

Station ID# 006

Maximum Depth 1287

Latitude	<u>2849.1 N</u>
Longitude	<u>8818.0 W</u>
Distance from Wellhead	<u>5.951 nm</u>

**Auxiliary Sensors**

CDOM

DO

Altimeter

Other

Bottle #	Depth Sampled	Sampled By:	DO	VOA's (40 mL)	THC (1L)
			<u>Liza</u>	<u>Ashok</u>	
1	1010		x		
2	1010			x	x
3	801		x		
4	801			x	x
5	601		x		
6	601			x	x
7	400		x		
8	400			x	x
9	201		x		
10	201			x	x
11	31		x		
12	31			x	x
Go-Flo	33.4			x	x

Notes: drop messenger @ 33.4 m to trip 60 Flo  
bottles # 6, 9 didn't fire also 3

ashok took  
Bottle 6 from niskin 5

Signature

Date: 8/05/10

**RV Henry Bigelow  
Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 8/05/10  
 Time (GMT) 0401-  
 Maximum Depth 1249

CTD Cast# 007  
 Station ID# 007

Latitude	<u>2851.0 N</u>
Longitude	<u>8815.9 W</u>
Distance from Wellhead	<u>8.628 nm</u>

**Auxiliary Sensors**

CDOM       DO       Altimeter       Other

Bottle #	Depth Sampled	Sampled By:		DO	VOA's (40 mL)	THC (1L)
		<u>Liza</u>	<u>Ashok</u>			
1	1003			X		
2	1003				X	X
3	801			X		
4	801				X	X
5	601			X		
6	601				X	X
7				X		
8					X	X
9				X		
10					X	X
11				X		
12					X	X
Go-Flo	31				X	X

Notes: Go Flo @ 31 meters

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 08/06 - 08/06 CTD Cast# 009  
 Time (GMT) 2353 - 0123 Station ID# 009  
 Maximum Depth 1509.4 1460

Latitude <u>2843.4</u>
Longitude <u>8819.4</u>
Distance from Wellhead <u>2.44 nmi</u>

Auxiliary Sensors

CDOM       DO       Altimeter       Other

Sampled By:		DO	VOA's (40 mL)	THC (1L)
Bottle #	Depth Sampled			
1	1460	X		
2	1460		X	X
3	1136	X		
4	1135	<del>X</del>	X	X
5	900	X		
6	900		X	X
7	500	X		
8	500		X	X
9	200	X		
10	200		X	X
11	29	X		
12	29		X	X
Go-Flo	31		X	X

Notes: Go Flo @ 31 meters.  
 \*bottles 1 and 2 hit bottom\*

note, CTD hit bottom,  
 CDOM probably covered  
 with mud during upcast

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator

THD

Date (GMT) 08/07

CTD Cast# 010

Time (GMT) 0314 - 0452

Station ID# 010

Maximum Depth 1475

Latitude	<u>28 42.5</u>
Longitude	<u>88 20.2</u>
Distance from Wellhead	<u>2.396 nmi</u>

Auxiliary Sensors

CDOM

DO

Altimeter

Other

DO      VOA's (40 mL)    THC (1L)

Sampled By:

Bottle #	Depth Sampled				
1	1398			X	X
2	1300		X X		
3	1200			X	X
4	1150			X	X
5	1150		X		
6	1100			X	X
7	1000			X	X
8	800			X	X
9	600			X	X
10	400			X	X
11	200		X		
12	28			X	X
Go-Flo	30			X	X

Notes: Oxygen dip @ 1150 m.

Signature



Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator Betsy

Date (GMT) 08/07 CTD Cast# 011  
 Time (GMT) 0602-0742 Station ID# 011  
 Maximum Depth 1590

Latitude 2842.3  
 Longitude 8823.7  
 Distance from Wellhead 2.407 nm

CDOM       DO       Altimeter       Other

Sampled By: \_\_\_\_\_

Bottle #	Depth Sampled	DO	VOA's (40 mL)	THC (1L)
1	1424	X		
2	1299		X	X
3	1200		X	X
4	1148		X	X
5	1148	X2		
6	1100		X	X
7	1001		X	X
8	800	X		
9	600		X	X
10	400		X	X
11	200		X	X
12	30		X	X
Go-Flo	33		X	X

Notes:

Signature

Date:



**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator HOLZWARTH-DAVIS

Date (GMT) 08/07/2010 CTD Cast# 014  
 Time (GMT) 1719 Station ID# 014  
 Maximum Depth 1411m

Latitude	<u>2845.9</u>
Longitude	<u>8823.9</u>
Distance from Wellhead	<u>2.1 nm</u>

Auxiliary Sensors

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)      THC (1L)

Sampled By:

Bottle #	Depth Sampled	DO	VOA's (40 mL)	THC (1L)
1	1354			
2	1199			
3	997			
4	900			
5	801			
6	600			
7	499			
8	400			
9	200			
10	101			
11	28			
12	4			
Go-Flo	30			

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 08/07 CTD Cast# 015  
 Time (GMT) 2106-2245 Station ID# 015  
 Maximum Depth 1518.4

Latitude 2844.2  
 Longitude 8824.7  
 Distance from Wellhead 2.407nmi

Auxiliary Sensors

CDOM       DO       Altimeter       Other

Sampled By:		DO	VOA's (40 mL)	THC (1L)
Bottle #	Depth Sampled			
1	1468		X	X
2	1240		X	X
3	1199	X	X	X
4	1186		X	X
5	899		X	X
6	701		X	X
7	500		X	X
8	300	<del>X</del>		
9	179		X	X
10	100	X		
11	29		X	X
12	3	X2		
Go-Flo	31		X	X

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator

THD

Date (GMT) 8/7 - 8/8

CTD Cast# 016

Time (GMT) 2341 - 01

Station ID# 016

Maximum Depth 1592

Latitude	<u>2842.2</u>
Longitude	<u>8823.7</u>
Distance from Wellhead	<u>2.54 nmi</u>



CDOM



Auxiliary Sensors

DO



Altimeter

Other

Bottle #	Depth Sampled	DO	VOA's (40 mL)	THC (1L)	<u>GC</u>
1	1539				<u>x 2</u>
2	1299				
3	1168				
4	1144	x			<u>x 2</u>
5	1124				
6	899				<u>x 2</u>
7	699	x2			
8	500				
9	170				<u>x 2</u>
10	146				<u>x 2</u>
11	28				
12	4	x			<u>x 2</u>
Go-Flo	30.5				

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator \_\_\_\_\_

Date (GMT) 08/08  
Time (GMT) 0211 - 0353  
Maximum Depth 1628

CTD Cast# 017  
Station ID# 017

Latitude 2841.8  
Longitude 8821.4  
Distance from Wellhead 2.6 nmi

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)    THC (1L)

Sampled By: bc

Bottle #	Depth Sampled				
1	1568		x2	x	x
2	1384			x	x
3	1202	x2		x	x
4	1174	x2	T	x	x
5	1168	x2		x	x
6	899			x	x
7	599			x	x
8	255	x2		x	x
9	167	x2	*	x	x
10	57	x2		x	x
11	29		T	x	x
12	4			x	x
Go-Flo	30			x	x

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator EAB

Date (GMT) 08/08/2010 CTD Cast# 018  
 Time (GMT) 0442-0628 Station ID# 018  
 Maximum Depth 1372

Latitude	<u>22 44.2</u>
Longitude	<u>88 15.9</u>
Distance from Wellhead	<u>5.259 NM</u>

Auxiliary Sensors  
 CDOM       DO       Altimeter       Other

Sampled By: GC      DO      VOA's (40 mL)      THC (1L)

Bottle #	Depth Sampled				
1	1274	x2			GC
2	1100		X		
3	1000				
4	798				
5	599		x2		
6	500	x2			GC
7	400	x2			GC
8	309	x2			GC
9	200	x2			GC
10	100		<del>X</del>		
11	49				
12	3	x2	X		GC
Go-Flo	52				

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator EAB

Date (GMT) 08/08/2010 CTD Cast# 020  
 Time (GMT) 1607-1735 Station ID# 020  
 Maximum Depth 1442

Latitude 2846.7  
 Longitude 8821.9  
 Distance from Wellhead 2.323 nm

Auxiliary Sensors

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)      THC (1L)

Sampled By: bc

Bottle #	Depth Sampled				
1	1343	X		X	X
2	1202		X	X	X
3	1098	X		X	X
4	995	<del>X</del>		X	X
5	899			X	X
6	699	X	X	X	X
* 7	502				
8	_____				
9	_____				
10	_____				
11	_____				
12	_____				
Go-Flo	035	X		X	X

Notes:

*\* didn't fire?*

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 8/8 CTD Cast# 021  
 Time (GMT) 1837-20 Station ID# 021  
 Maximum Depth 1477

Latitude 28 45.5  
 Longitude 88 19.8  
 Distance from Wellhead \_\_\_\_\_

Auxiliary Sensors

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)      THC (1L)

Sampled By: GC

Bottle #	Depth Sampled				
1	1400			X	X
2	1297	X		X	X
3	1197		X	X	X
4	1098	X		X	X
5	1001			X	X
6	801		X	X	X
7	599			X	X
8	400	X		X	X
9	149			X	X
10	89	X		X	X
11	27			X	X
12	3.5	X	X	X	X
Go-Flo	30	<del>X</del>		X	X

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator

THD

Date (GMT)

8/8

CTD Cast# 022

Time (GMT)

2121-2254

Station ID# 022

Maximum Depth

1026

Latitude 2842.1

Longitude 8821.5

Distance from Wellhead

2.5nmi

Auxiliary Sensors

CDOM

DO

Altimeter

Other

DO

VOA's (40 mL) THC (1L)

Sampled By:

GC

Bottle #	Depth Sampled				
1	1566	X		X	X
2	1399	X		X	X
3	1165	X		X	X
4	1100	X		X	X
5					
6					
7					
8					
9					
10					
11					
12					
Go-Flo					

Notes:

Signature

Date:



**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator

THD

Date (GMT)

8/8 - 8/9

CTD Cast# 023

Time (GMT)

2339-0118

Station ID# 023

Maximum Depth

1594

Latitude	2842.2
Longitude	88236
Distance from Wellhead	2.5nmi

Auxiliary Sensors

CDOM

DO

Altimeter

Other

Bottle #	Depth Sampled	Sampled By:	DO	VOA's (40 mL)	THC (1L)
1	1003	GC		X	X
2	900			X	X
3	800			X	X
4	685			X	X
5	600	X		X	X
6	498			X	X
7	400		X	X	X
8	300			X	X
9	200	X	XZ	X	X
10	98			X	X
11	29		X	X	X
12	3	X		X	X
Go-flo	30			X	X

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 8/9 CTD Cast# 024  
 Time (GMT) 0225 - 0404 Station ID# 024  
 Maximum Depth 1445

Latitude	<u>2844.7</u>
Longitude	<u>8827.9</u>
Distance from Wellhead	<u>5.2 nmi</u>

Auxiliary Sensors  
 CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)    THC (1L)

Sampled By: bc

Bottle #	Depth Sampled				
1	1387	X		X	X
2	1167		X	X	X
3	999			X	X
4	897	X		X	X
5	699			X	X
6	499			X	X
7	399	X	X	X	X
<del>8</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>
<del>9</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>
<del>10</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>	<del>_____</del>
<del>11</del>	<del>_____</del>	<del>_____</del>	<del>X2</del>	<del>_____</del>	<del>_____</del>
12	3.5	X			
Go-Flo	3Z			X	X

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator

EAB

Date (GMT)

08/09/2010

CTD Cast#

025

Time (GMT)

0505-0637

Station ID#

025

Maximum Depth

1362

Latitude	<u>28.40.6</u>
Longitude	<u>8826.3</u>
Distance from Wellhead	<u>5.244 nm</u>

Auxiliary Sensors

CDOM

DO

Altimeter

Other

Bottle #	Depth Sampled	DO	VOA's (40 mL)	THC (1L)
1	1263	X	X	X
2	1195		X	X
3	1160	X	X	X
4	1100		X	X
5	900		X	X
6	700		X	X
7	497		X	X
8	300	X	X	X
9	200	X	X	X
10	100	X	X	X
11	34		X	X
12	3	X	X	X
Go-Flo	36		X	X

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator EAB

Date (GMT) 08/09/2010 CTD Cast# 026  
 Time (GMT) 0748 Station ID# 026  
 Maximum Depth 1669

Latitude	<u>2839.0</u>
Longitude	<u>88.22.3</u>
Distance from Wellhead	<u>5.305</u>

Auxiliary Sensors

CDOM       DO       Altimeter       Other

Bottle #	Depth Sampled	Sampled By: <u>GC</u>	DO	VOA's (40 mL)	THC (1L)
1	1587	X		X	X
2	1300			X	X
3	1000	X		X	X
4	850			X	X
5	700	X		X	X
6	501			X	X
7	400			X	X
8	302	X		X	X
9	201			X	X
10	101	X		X	X
11	33			X	X
12	2			X	X
Go-Flo	35	X		X	X

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator EA B.

Date (GMT) 08/09/2010 CTD Cast# 027  
 Time (GMT) 1041-1219 Station ID# 027  
 Maximum Depth 1519

Latitude	<u>2840.2</u>
Longitude	<u>8817.6</u>
Distance from Wellhead	<u>5.676 nm</u>

Auxiliary Sensors

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)      THC (1L)

Sampled By: GC

Bottle #	Depth Sampled			
1	1435			
2	1250			
3	1201	X		
4	1150	X		
5	1000			
6	800			
7	595	X		
8	403	X		
9	199			
10	97	X		
11	34	X		
12	3			
Go-flo	35			

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator EAB

Date (GMT) 08/09/2010  
 Time (GMT) 0 1348  
 Maximum Depth 1379

CTD Cast# 028/029/030  
 Station ID# 028

Latitude	<u>2844.2</u>
Longitude	<u>8816.1</u>
Distance from Wellhead	<u>5.233 nm</u>

**Auxiliary Sensors**

CDOM       DO       Altimeter       Other

DO      VOA's (40 mL)      THC (1L)

Sampled By:

original  
cast 029

original  
cast 030

Bottle #	Depth Sampled	DO	VOA's (40 mL)	THC (1L)
1	1304			
2	1199			
3	1002			
4	802			
5	600			
6	502			
7	390			
8	294			
9	200			
10	35			
11	3			
<del>12</del>				
Go-Flo	37			

Notes:

Signature

Date:

**RV Henry Bigelow**  
**Chief Scientist - Jon Hare**

CTD Operator THD

Date (GMT) 8/9 - 8/10 CTD Cast# 029  
 Time (GMT) 2259 - 0051 Station ID# 029  
 Maximum Depth 1994

Latitude 2841.8  
 Longitude 8813.5  
 Distance from Wellhead 7.9 nmi

CDOM       DO       Altimeter       Other

Sampled By: GC      DO      VOA's (40 mL)      THC (1L)

Bottle #	Depth Sampled				
1	1738	X		X	X
2	1628	X		X	X
3	1517	X		X	X
4	1406	X		X	X
5	1098	X		X	X
6	899	X		X	X
7	699	X		X	X
8	499	X		X	X
9	299	X		X	X
10	180	X		X	X
11	29	X		X	X
12	4	X		X	X
Go-Flo	31	X		X	X

Notes:

Signature

Date:

**RV Henry Bigelow  
Chief Scientist - Jon Hare**

CTD Operator \_\_\_\_\_

Date (GMT) 8/10

CTD Cast# 030

Time (GMT) 0145-315

Station ID# 030

Maximum Depth 1797

Latitude	<u>2841.8</u>
Longitude	<u>8813.5</u>
Distance from Wellhead	<u>7.891 nmi</u>

**Auxiliary Sensors**

CDOM

DO

Altimeter

Other

DO      VOA's (40 mL)    THC (1L)

Sampled By: GC

Bottle #	Depth Sampled			
1	1735	X		
2	1604	X		
3	1499	X		
4	<del>1201</del> 1400	X		
5	1201 993	X		
6	993 799			
7	799 501			
8	501			
9	300			
10	100			
11	30			
12	30			
Go-Flo				

Notes:

Signature

Date: