

X	Y	Depth	Depth+Draft	PC Date	PC Time	NO	Line Name	Start Point X	Start Point Y	End Point X	End Point Y
-83491.372	40960.522	0	0.15	7/27/09	13:37.8	1	b-3	-83548	40988	-83540	40800
-83491.372	40960.522	0	0.15	7/27/09	13:38.8	2	b-3	-83548	40988	-83540	40800
-83491.372	40960.522	0	0.15	7/27/09	13:39.8	3	b-3	-83548	40988	-83540	40800
-83491.372	40960.522	0	0.15	7/27/09	13:40.8	4	b-3	-83548	40988	-83540	40800
-83491.372	40960.522	0	0.15	7/27/09	13:41.8	5	b-3	-83548	40988	-83540	40800
-83491.372	40960.522	0	0.15	7/27/09	13:42.8	6	b-3	-83548	40988	-83540	40800
-83491.372	40960.522	0	0.15	7/27/09	13:43.8	7	b-3	-83548	40988	-83540	40800
-83491.372	40960.507	0	0.15	7/27/09	13:44.8	8	b-3	-83548	40988	-83540	40800
-83491.372	40960.507	0	0.15	7/27/09	13:45.8	9	b-3	-83548	40988	-83540	40800
-83491.391	40960.492	0	0.15	7/27/09	13:46.8	10	b-3	-83548	40988	-83540	40800
-83491.354	40960.492	0	0.15	7/27/09	13:47.8	11	b-3	-83548	40988	-83540	40800
-83491.279	40960.673	0	0.15	7/27/09	13:48.8	12	b-3	-83548	40988	-83540	40800
-83491.741	40960.736	0	0.15	7/27/09	13:49.8	13	b-3	-83548	40988	-83540	40800
-83492.059	40959.994	0	0.15	7/27/09	13:50.8	14	b-3	-83548	40988	-83540	40800
-83492.154	40959.418	0	0.15	7/27/09	13:51.8	15	b-3	-83548	40988	-83540	40800
-83492.266	40959.191	0	0.15	7/27/09	13:52.8	16	b-3	-83548	40988	-83540	40800
-83492.303	40959.116	0	0.15	7/27/09	13:53.8	17	b-3	-83548	40988	-83540	40800
-83492.303	40959.116	0	0.15	7/27/09	13:54.8	18	b-3	-83548	40988	-83540	40800
-83492.545	40958.844	0	0.15	7/27/09	13:55.8	19	b-3	-83548	40988	-83540	40800
-83493.026	40958.8	0	0.15	7/27/09	13:56.8	20	b-3	-83548	40988	-83540	40800
-83493.396	40958.575	1.56	1.71	7/27/09	13:57.8	21	b-3	-83548	40988	-83540	40800
-83494.398	40957.987	1.78	1.93	7/27/09	13:58.8	22	b-3	-83548	40988	-83540	40800
-83494.898	40957.702	2.19	2.34	7/27/09	13:59.8	23	b-3	-83548	40988	-83540	40800
-83495.51	40957.325	2.34	2.49	7/27/09	14:00.8	24	b-3	-83548	40988	-83540	40800
-83496.307	40956.813	1.66	1.81	7/27/09	14:01.8	25	b-3	-83548	40988	-83540	40800
-83497.161	40956.195	1.86	2.01	7/27/09	14:02.8	26	b-3	-83548	40988	-83540	40800
-83498.033	40955.486	2.18	2.33	7/27/09	14:03.8	27	b-3	-83548	40988	-83540	40800
-83498.887	40954.732	1.62	1.77	7/27/09	14:04.8	28	b-3	-83548	40988	-83540	40800
-83499.685	40953.977	1.45	1.6	7/27/09	14:05.8	29	b-3	-83548	40988	-83540	40800
-83500.41	40953.161	1.49	1.64	7/27/09	14:06.8	30	b-3	-83548	40988	-83540	40800
-83500.41	40953.161	1.49	1.64	7/27/09	14:07.8	31	b-3	-83548	40988	-83540	40800
-83501.153	40952.33	1.49	1.64	7/27/09	14:08.8	32	b-3	-83548	40988	-83540	40800
-83501.97	40951.575	3.17	3.32	7/27/09	14:09.8	33	b-3	-83548	40988	-83540	40800
-83502.897	40951.034	3.52	3.67	7/27/09	14:10.8	34	b-3	-83548	40988	-83540	40800
-83505.026	40950.543	3.83	3.98	7/27/09	14:11.8	35	b-3	-83548	40988	-83540	40800
-83506.117	40950.366	4.15	4.3	7/27/09	14:12.8	36	b-3	-83548	40988	-83540	40800
-83507.172	40950.158	4.41	4.56	7/27/09	14:13.8	37	b-3	-83548	40988	-83540	40800
-83508.246	40949.89	4.67	4.82	7/27/09	14:14.8	38	b-3	-83548	40988	-83540	40800
-83509.32	40949.607	5.17	5.32	7/27/09	14:15.8	39	b-3	-83548	40988	-83540	40800
-83510.375	40949.338	5.26	5.41	7/27/09	14:16.8	40	b-3	-83548	40988	-83540	40800
-83511.393	40949.009	5.59	5.74	7/27/09	14:17.8	41	b-3	-83548	40988	-83540	40800

-	GPS Receipt	Carrier Latitude	Carrier Longitude	GPS Latitude	GPS Longitude	GPS Elevation	GPS Date (UTC)
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3330"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3330"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3330"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3330"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3330"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3330"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3324"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3324"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7174"	E140°17'00.3324"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7168"	E140°17'00.3318"	68.6 m	7/27/09
	INVALID_DATA			N35°14'47.7180"	E140°17'00.3318"	68.8 m	7/27/09
	INVALID_DATA			N35°14'47.7204"	E140°17'00.3390"	68.8 m	7/27/09
	INVALID_DATA			N35°14'47.7054"	E140°17'00.3414"	68.4 m	7/27/09
	INVALID_DATA			N35°14'47.6952"	E140°17'00.3120"	68.0 m	7/27/09
	INVALID_DATA			N35°14'47.6922"	E140°17'00.2892"	67.7 m	7/27/09
	INVALID_DATA			N35°14'47.6886"	E140°17'00.2802"	67.5 m	7/27/09
	INVALID_DATA			N35°14'47.6874"	E140°17'00.2772"	67.2 m	7/27/09
	INVALID_DATA			N35°14'47.6796"	E140°17'00.2664"	67.0 m	7/27/09
	INVALID_DATA			N35°14'47.6640"	E140°17'00.2646"	66.6 m	7/27/09
	INVALID_DATA			N35°14'47.6520"	E140°17'00.2556"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.6370"	E140°17'00.2430"	66.2 m	7/27/09
	INVALID_DATA			N35°14'47.6196"	E140°17'00.2322"	66.2 m	7/27/09
	INVALID_DATA			N35°14'47.6034"	E140°17'00.2208"	66.2 m	7/27/09
	INVALID_DATA			N35°14'47.5836"	E140°17'00.2058"	66.2 m	7/27/09
	INVALID_DATA			N35°14'47.5578"	E140°17'00.1854"	66.2 m	7/27/09
	INVALID_DATA			N35°14'47.5302"	E140°17'00.1608"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.5020"	E140°17'00.1326"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.4744"	E140°17'00.1026"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.4486"	E140°17'00.0726"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.4252"	E140°17'00.0402"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.4012"	E140°17'00.0072"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.3748"	E140°16'59.9772"	66.3 m	7/27/09
	INVALID_DATA			N35°14'47.3448"	E140°16'59.9556"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.3106"	E140°16'59.9436"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.2758"	E140°16'59.9358"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.2404"	E140°16'59.9286"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.2062"	E140°16'59.9202"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.1714"	E140°16'59.9094"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.1366"	E140°16'59.8980"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.1024"	E140°16'59.8872"	66.4 m	7/27/09
	INVALID_DATA			N35°14'47.0694"	E140°16'59.8740"	66.4 m	7/27/09

GPS Time (UTC)	Number of Receipt Satellite	PDOP	Boat Speed	Water Temp	Echo Sounding Level	Range	Gain Preset	Gain	Compass X
1:14:49	7	3.4	0.21 kt	28	L	80	ALL OK	0	4500
1:14:50	7	3.4	0.09 kt	28	L	80	ALL OK	0	4500
1:14:51	7	3.4	0.05 kt	28	L	80	ALL OK	0	4500
1:14:52	7	3.4	0.08 kt	28	L	80	ALL OK	0	4500
1:14:53	7	3.4	0.32 kt	28	L	80	ALL OK	0	4500
1:14:54	7	3.4	0.25 kt	28	L	80	ALL OK	0	4500
1:14:55	7	3.4	0.03 kt	28	L	80	ALL OK	0	4500
1:14:56	7	3.4	0.06 kt	28	L	80	ALL OK	0	4500
1:14:57	7	3.4	0.11 kt	28	L	80	ALL OK	0	4500
1:14:58	7	3.4	0.13 kt	28	L	80	ALL OK	0	4500
1:14:59	5	8.3	0.19 kt	28	L	80	ALL OK	0	4500
1:15:00	5	8.3	0.42 kt	28	L	80	ALL OK	0	4500
1:15:01	5	8.3	0.53 kt	28	L	80	ALL OK	0	4500
1:15:02	7	3.4	1.24 kt	28	L	80	ALL OK	0	4500
1:15:03	7	3.4	1.62 kt	28	L	80	ALL OK	0	4500
1:15:04	7	3.4	0.89 kt	28	L	80	ALL OK	0	4500
1:15:05	7	3.4	0.19 kt	28	L	80	ALL OK	0	4500
1:15:06	7	3.4	0.46 kt	28	L	80	ALL OK	0	4500
1:15:07	7	3.4	1.20 kt	28	L	80	ALL OK	0	4500
1:15:08	6	3.5	0.73 kt	28	L	80	ALL OK	0	4500
1:15:09	6	3.5	1.05 kt	28	L	80	ALL OK	0	4500
1:15:10	7	3.5	0.98 kt	28	L	80	ALL OK	0	4500
1:15:11	7	3.4	1.24 kt	28	L	80	ALL OK	0	4500
1:15:12	7	3.4	1.40 kt	28	L	80	ALL OK	0	4500
1:15:13	7	3.4	1.61 kt	28	L	80	ALL OK	0	4500
1:15:14	7	3.4	1.84 kt	28	L	80	ALL OK	0	4500
1:15:15	7	3.4	2.30 kt	28	L	80	ALL OK	0	4500
1:15:16	7	3.4	2.31 kt	28	L	80	ALL OK	0	4500
1:15:17	7	3.4	2.05 kt	28	L	80	ALL OK	0	4500
1:15:18	7	3.4	2.34 kt	28	L	80	ALL OK	0	4500
1:15:19	7	3.4	2.22 kt	28	L	80	ALL OK	0	4500
1:15:20	7	3.4	2.19 kt	28.3	L	80	ALL OK	0	4500
1:15:21	7	3.4	2.01 kt	28	L	80	ALL OK	0	4500
1:15:22	7	3.4	2.29 kt	28	L	80	ALL OK	0	4500
1:15:23	7	3.4	2.05 kt	28	L	80	ALL OK	0	4500
1:15:24	7	3.4	2.17 kt	28	L	80	ALL OK	0	4500
1:15:25	7	3.4	2.06 kt	28	L	80	ALL OK	0	4500
1:15:26	7	3.4	2.14 kt	28	L	80	ALL OK	0	4500
1:15:27	7	3.4	2.17 kt	28	L	80	ALL OK	0	4500
1:15:28	7	3.4	2.02 kt	28	L	80	ALL OK	0	4500
1:15:29	7	3.4	2.02 kt	28	L	80	ALL OK	0	4500

Target Point Number	Distance Between Target Point and Boat	Returning Point Latitude	Returning Point Longitude	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.09	N35°14'47.7096"	E140°17'00.3336"	
0	32.1	N35°14'47.7096"	E140°17'00.3336"	
0	32.1	N35°14'47.7096"	E140°17'00.3336"	
0	32.1	N35°14'47.7096"	E140°17'00.3336"	
0	32.12	N35°14'47.7096"	E140°17'00.3336"	
0	32.01	N35°14'47.7096"	E140°17'00.3336"	
0	31.71	N35°14'47.7096"	E140°17'00.3336"	
0	32.19	N35°14'47.7096"	E140°17'00.3336"	
0	32.65	N35°14'47.7096"	E140°17'00.3336"	
0	32.79	N35°14'47.7096"	E140°17'00.3336"	
0	32.84	N35°14'47.7096"	E140°17'00.3336"	
0	32.84	N35°14'47.7096"	E140°17'00.3336"	
0	32.96	N35°14'47.7096"	E140°17'00.3336"	
0	32.78	N35°14'47.7096"	E140°17'00.3336"	
0	32.81	N35°14'47.7096"	E140°17'00.3336"	
0	32.91	N35°14'47.7096"	E140°17'00.3336"	
0	32.96	N35°14'47.7096"	E140°17'00.3336"	
0	33.07	N35°14'47.7096"	E140°17'00.3336"	
0	33.25	N35°14'47.7096"	E140°17'00.3336"	
0	33.55	N35°14'47.7096"	E140°17'00.3336"	
0	33.95	N35°14'47.7096"	E140°17'00.3336"	
0	34.43	N35°14'47.7096"	E140°17'00.3336"	
0	34.96	N35°14'47.7096"	E140°17'00.3336"	
0	35.59	N35°14'47.7096"	E140°17'00.3336"	
0	35.59	N35°14'47.7096"	E140°17'00.3336"	
0	36.25	N35°14'47.7096"	E140°17'00.3336"	
0	36.85	N35°14'47.7096"	E140°17'00.3336"	
0	37.24	N35°14'47.7096"	E140°17'00.3336"	
0	37.5	N35°14'47.7096"	E140°17'00.3336"	
0	37.6	N35°14'47.7096"	E140°17'00.3336"	
0	37.77	N35°14'47.7096"	E140°17'00.3336"	
0	38.03	N35°14'47.7096"	E140°17'00.3336"	
0	38.33	N35°14'47.7096"	E140°17'00.3336"	
0	38.65	N35°14'47.7096"	E140°17'00.3336"	
0	39.06	N35°14'47.7096"	E140°17'00.3336"	