



Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David Struhs
Secretary

September 5, 2003

Mr. Jimmy Palmer
Regional Administrator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW
Atlanta, Georgia 30303

Re: Permit No. OD-03 Piney Point
August 2003 Transportation and Dispersion Report

Dear Mr. Palmer:

In accordance with Special Condition No. 25 of the above-referenced permit, this report provides the required information for the month of August 2003. The attached spreadsheet provides the information required Special Condition No. 19 of the permit. An electronic version of the spreadsheet will be sent to your staff. This report also includes the plots of the barge voyages as required by Special Conditions Nos. 17(c) and 19(d).

The certifications required by Special Condition No. 26.d for the Permittee and the Transporter are presented as attachments to this report. Please contact me at your convenience should you have any questions or need additional information.

Sincerely,

Mimi A. Drew
Director
Division of Water Resource Management

MAD/mr/pc

cc: Bo Crum

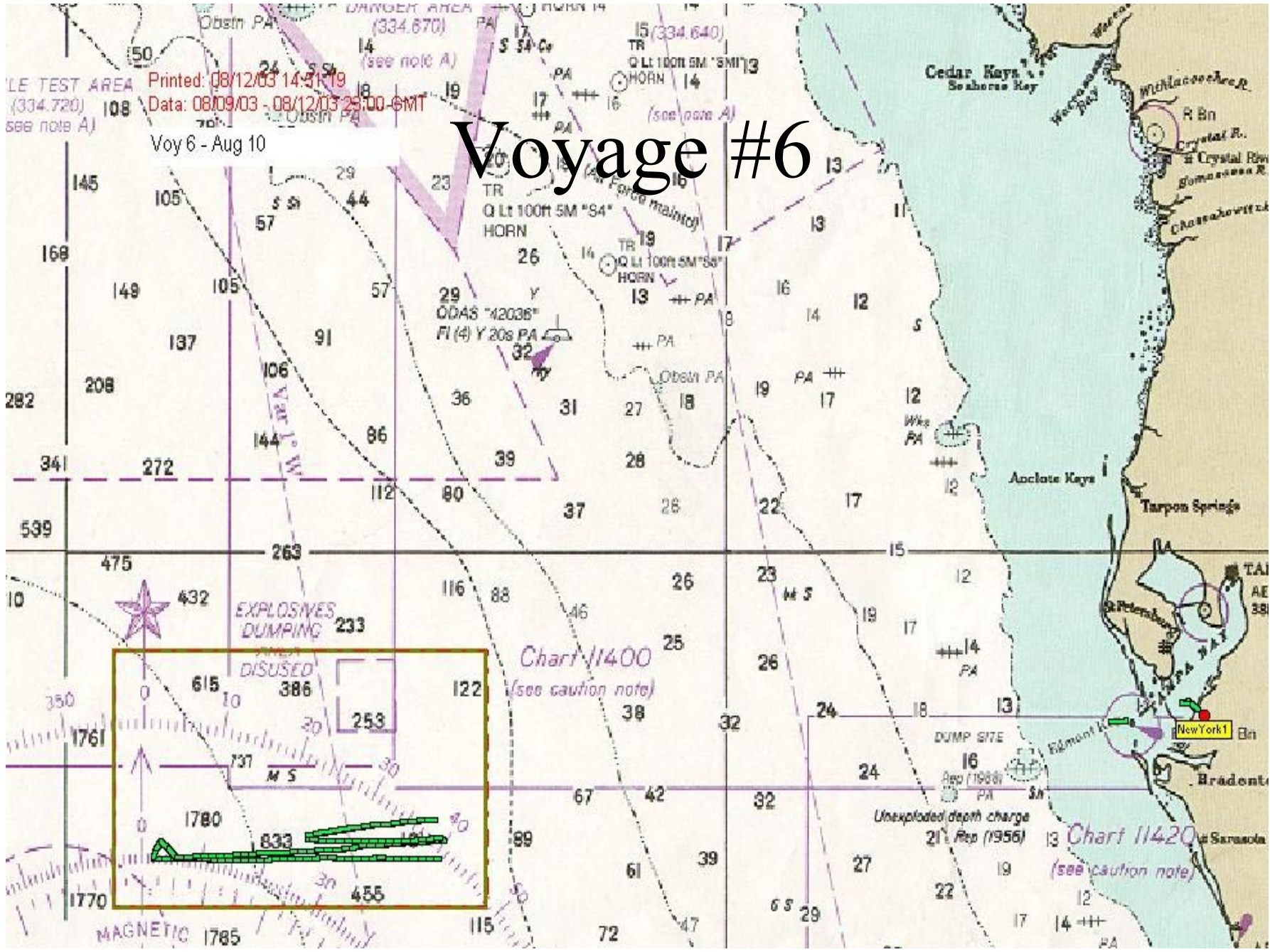
Enclosures

Voyage #6

LE TEST AREA
(334.720)
see note A)

Printed: 08/12/03 14:51:19
Data: 08/09/03 - 08/12/03 25:00 GMT

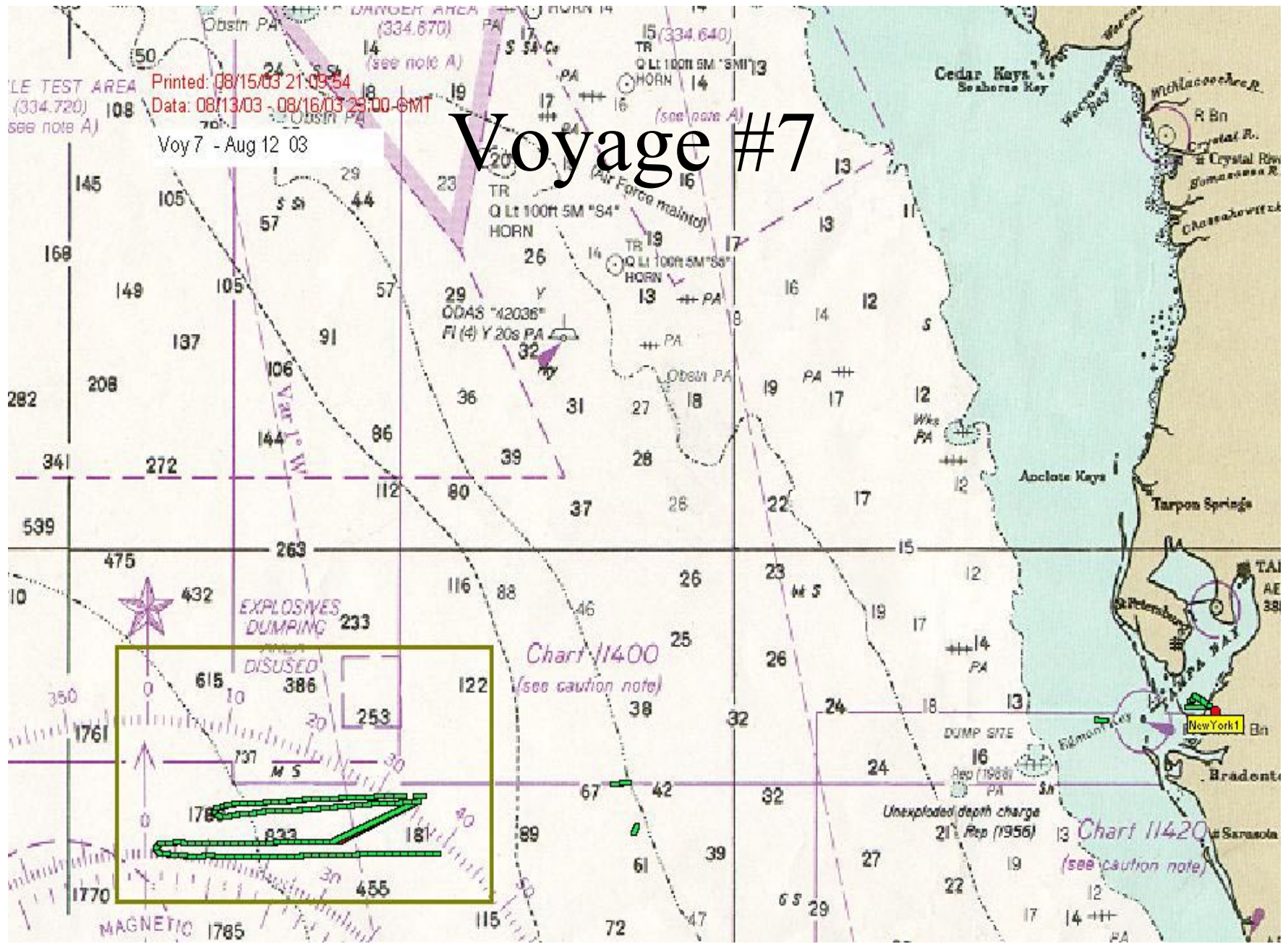
Voy 6 - Aug 10



Voyage #7

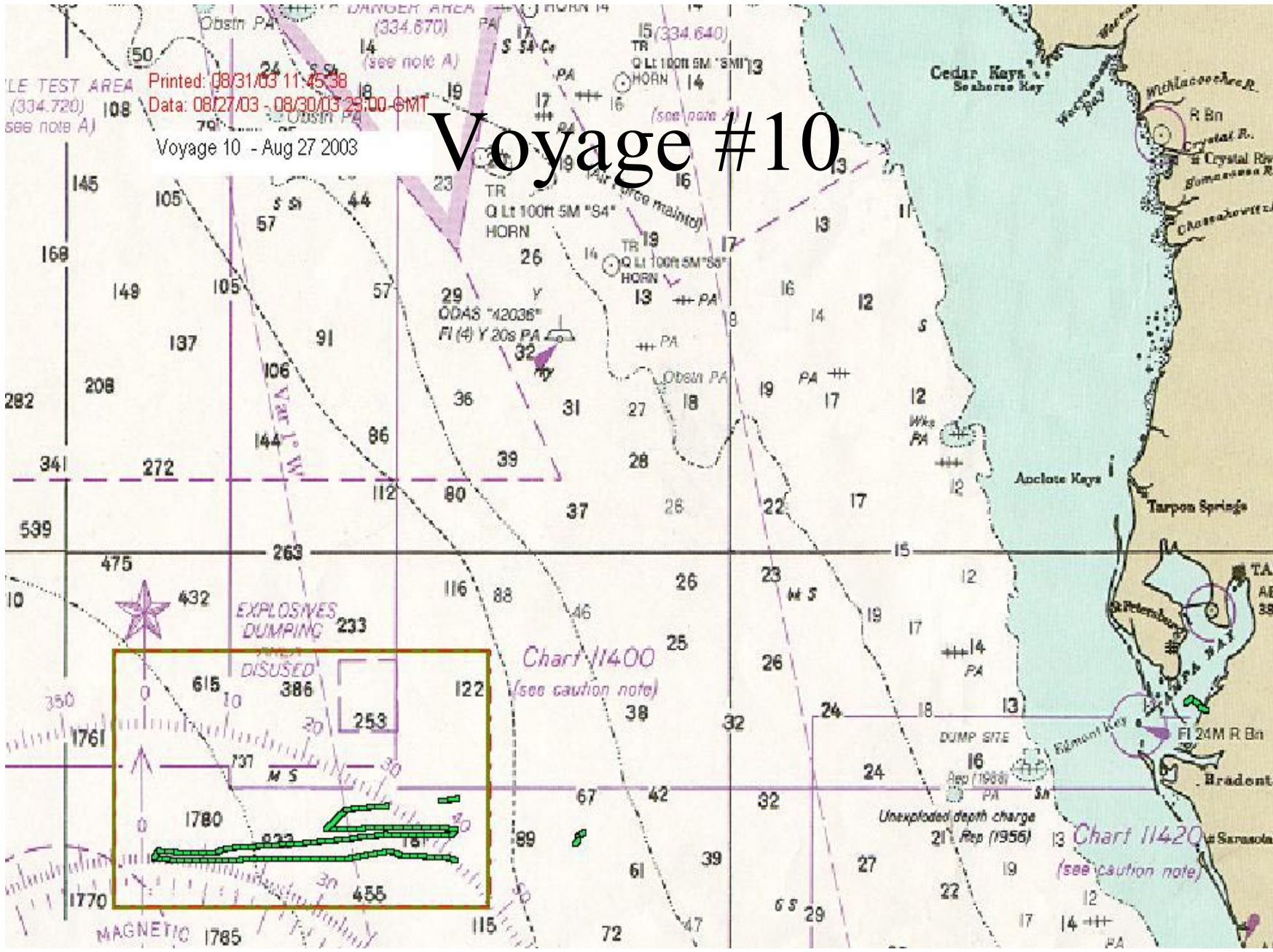
LE TEST AREA (334.720) see note A)
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Data: 08/13/03 - 08/16/03 23:00 GMT

Voy 7 - Aug 12 03



Printed: 08/31/03 11:45:38
Data: 08/27/03 - 08/30/03 23:00-GMT
Voyage 10 - Aug 27 2003

Voyage #10



Special Condition 19 A

Time & Date Vessel Loading Begins and Ends

Voyage	Date	Time @ Start	Date	Time @ Stop
5	08/03/03	13:00	08/04/03	22:06
6	08/07/03	09:00	08/09/03	04:06
7	08/11/03	20:00	08/12/03	21:06
8	08/15/03	22:45	08/17/03	12:35
9	08/20/03	09:45	08/21/03	24:00
10	08/24/03	15:30	08/26/03	06:15

Special Condition 19 B

Volume of Load

Voyage	Volume (Gallons)
5	7,629,383
6	7,669,531
7	6,867,999
8	6,858,411
9	6,917,177
10	6,839,053

Special Condition 19 C

Time, Position and Water Depth When Each Dispersion Begins and Ends

Voyage	Date	Time	Start			End				
			Lat.	Lon.	Depth (Fathoms)	Date	Time	Lat.	Lon.	Depth (Fathoms)
5	08/05/03	15:00	27°17.531N	84°50.721W	900	08/06/03	18:00	27°22.802N	84°51.802W	960
6	08/10/03	02:45	27°17.49N	84°52.72N	1080	08/11/03	05:30	27°22.93N	84°51.59W	900
7	08/13/03	19:45	27°17.58N	84°50.57N	906	08/15/03	05:30	27°25.75N	84°49.69W	810
8	08/18/03	09:00	27°17.42N	84°49.73W	846	08/19/03	17:25	27°25.27N	85°12.67W	2700
9	08/22/03	16:00	27°17.86N	84°49.54W	853	08/24/03	00:30	27°23.72N	85°05.95W	5040
10	08/27/03	11:45	27°27.89N	84°52.30W	780	08/28/03	19:15	27°26.03N	84°48.55W	780

Special Condition 19 D

Date, Time, Position, Water Depth, Vessel Speed & Course, Wind Speed & Direction, Discharge Rate and Comments During Dispersal

Voyage	Date	Time	Lat.	Lon.	Depth (Fathoms)	Vessel Speed (Knots)	Course	Wind Speed Direction	Discharge Rate (GPM)	Comments	Discharge Rate (GPH)
5	08/05/03	15:00	27°17.531N	84°50.721W	900	7.7	270	W-5	0	START	0
	08/05/03	15:15	27°22.567N	84°52.352W	1020	5.0	270	W-5	2004.8		120288
	08/05/03	15:30	27°17.646N	84°53.744W	1140	4.9	270	W-5	3113.6		186816
	08/05/03	15:45	27°17.767N	84°55.180W	1200	5.0	270	W-5	3648.4		218904
	08/05/03	16:00	27°17.817N	84°56.516W	1362	5.2	270	W-5	3766		225960
	08/05/03	16:15	27°17.832N	84°57.003W	1362	5.3	270	W-5	3698.8		221928
	08/05/03	16:30	27°17.753N	84°59.499W	1500	5.2	270	W-5	3796.8		227808
	08/05/03	16:45	27°17.668N	85°00.952W	1680	5.2	270	W-5	3852.8		231168
	08/05/03	17:00	27°17.626N	85°02.402W	1800	5.2	270	W-5	3609.2		216552
	08/05/03	17:15	27°17.619N	85°03.880W	2100	5.2	270	W-5	3665.2		219912
	08/05/03	17:30	27°17.639N	85°05.331W	2340	5.2	270	W-5	3707.2		222432
	08/05/03	17:45	27°17.616N	85°06.761W	2580	5.1	270	W-5	3603.6		216216
	08/05/03	18:00	27°17.614N	85°08.218W	2640	5.1	270	W-5	3813.6		228816
	08/05/03	18:15	27°17.615N	85°09.661W	2760	5.0	270	W-5	3864		231840
	08/05/03	18:30	27°17.611N	85°11.138W	2940	5.0	270	W-5	3782.8		226968
	08/05/03	18:45	27°17.603N	85°12.594W	3000	5.0	270	N-10	3833.2		229992
	08/05/03	19:00	27°17.583N	85°14.097W	3300	5.0	270	CALM	3757.6		225456
	08/05/03	19:15	27°17.576N	85°15.482W	3600	5.0	270	NE-5	3897.6		233856
	08/05/03	19:30	27°17.602N	85°16.713W	3600	4.7	270	E-5	3934		236040
	08/05/03	19:45	27°17.634N	85°18.117W	3900	4.9	270	NW-5	3609.2		216552
	08/05/03	20:00	27°17.644N	85°19.470W	4020	4.9	270	NW-5	3712.8		222768
	08/05/03	20:15	27°17.656N	85°20.866W	4320	5.0	270	NW-5	3766		225960
	08/05/03	20:30	27°17.604N	85°22.274W	4800	5.0	270	NW-5	3178		190680
	08/05/03	20:45	27°17.564N	85°23.697W	5070	5.1	270	NW-5	3175.2		190512
	08/05/03	21:00	27°17.511N	85°25.390W	5280	5.3	270	NW-5	3119.2		187152
	08/05/03	21:15	27°17.467N	85°26.609W	6120	5.3	270	NW-5	3085.6		185136
	08/05/03	21:30	27°17.417N	85°28.349W	9060	5.3	270	NW-5	2839.2		170352
	08/05/03	21:45	27°17.352N	85°29.679W	10668	5.3	270	NW-5	3110.8		186648
	08/05/03	22:00	27°17.330N	85°31.068W	10660	5.3	270	NW-5	2830.8		169848
	08/05/03	22:15	27°17.363N	85°32.688W	10662	5.3	270	NW-5	2808.4		168504
	08/05/03	22:30	27°17.355N	85°34.095W	10675	5.3	270	NW-5	3024		181440
	08/05/03	22:45	27°17.365N	85°35.600W	10650	5.3	270	NW-5	2822.4		169344
	08/05/03	23:00	27°17.363N	85°37.038W	10660	5.2	270	NW-5	2842		170520
	08/05/03	23:15	27°17.318N	85°38.513W	10660	5.3	270	NW-5	3892		233520
	08/05/03	23:30	27°17.255N	85°40.044W	10665	5.5	270	NW-5	3903.2		234192
	08/05/03	23:45	27°17.219N	85°41.562W	10570	5.6	270	NW-5	3360		201600
	08/06/03	0:00	27°17.187N	85°43.176W	10680	5.6	270	W-5	3348.8		200928
	08/06/03	0:15	27°17.586N	85°44.054W	10680	4.0	045	W-5	3418.8		205128
	08/06/03	0:30	27°17.658N	85°42.205W	10680	5.5	087	W-5	3458		207480
	08/06/03	0:45	27°17.733N	85°40.936W	10680	5.7	087	W-5	3528		211680
	08/06/03	1:00	27°17.771N	85°39.337W	10680	5.7	087	W-5	3516.8		211008
	08/06/03	1:15	27°17.797N	85°37.719W	10674	5.7	087	W-5	2912		174720
	08/06/03	1:30	27°17.839N	85°36.153W	10674	5.6	087	W-5	2965.2		177912
	08/06/03	1:45	27°17.937N	85°34.604W	10674	5.6	087	W-5	2895.2		173712
	08/06/03	2:00	27°18.040N	85°33.104W	10674	5.6	087	W-5	2965.2		177912

08/06/03	2:15	27°18.098N	085°31.325W	10668	5.8	087	W-5	3575.6	214536
08/06/03	2:30	27°18.143N	085°29.712W	10668	5.6	087	W-5	3553.2	213192
08/06/03	2:45	27°18.182N	085°28.211W	9000	5.6	087	W-5	3519.6	211176
08/06/03	3:00	27°18.233N	085°26.679W	5700	5.6	087	W-5	3502.8	210168
08/06/03	3:15	27°18.315N	085°25.089W	5000	5.7	087	W-5	3528	211680
08/06/03	3:30	27°18.402N	085°23.485W	4900	5.7	087	W-5	3497.2	209832
08/06/03	3:45	27°18.501N	085°21.890W	4800	5.7	087	W-5	3455.2	207312
08/06/03	4:00	27°18.616N	085°20.270W	4500	5.6	087	W-5	3472	208320
08/06/03	4:15	27°18.742N	085°18.703W	4200	5.6	087	W-5	3385.2	203112
08/06/03	4:30	27°18.831N	085°17.121W	3900	5.6	087	W-5	3438.4	206304
08/06/03	4:45	27°18.941N	085°15.503W	3600	5.7	087	W-5	3844.4	230664
08/06/03	5:00	27°19.063N	085°13.924W	3000	5.6	087	W-5	3906	234360
08/06/03	5:15	27°19.145N	085°12.288W	2850	5.6	087	W-5	3553.2	213192
08/06/03	5:30	27°19.225N	085°10.803W	2760	5.6	087	W-5	3463.6	207816
08/06/03	5:45	27°19.224N	085°09.224W	2700	5.6	087	W-5	3620.4	217224
08/06/03	6:00	27°19.353N	085°07.707W	2550	5.6	087	W-5	3911.6	234696
08/06/03	6:15	27°19.362N	085°06.158W	2340	5.5	087	W-5	3953.6	237216
08/06/03	6:30	27°19.395N	085°04.536W	2100	5.5	087	CALM	3866.8	232008
08/06/03	6:45	27°19.430N	085°03.076W	1950	5.5	087	CALM	3444	206640
08/06/03	7:00	27°19.428N	085°01.458W	1650	5.6	087	CALM	3166.8	190008
08/06/03	7:15	27°19.524N	084°59.883W	1500	5.6	087	CALM	2466.8	148008
08/06/03	7:30	27°19.581N	084°58.350W	1380	5.5	087	CALM	2408	144480
08/06/03	7:45	27°19.627N	084°56.705W	1200	5.6	087	CALM	3950.8	237048
08/06/03	8:00	27°19.650N	084°55.191W	1150	5.7	087	CALM	3981.6	238896
08/06/03	8:15	27°19.669N	084°53.553W	900	5.6	087	CALM	2858.8	171528
08/06/03	8:30	27°19.685N	084°52.049W	840	5.6	087	CALM	2539.6	152376
08/06/03	8:45	27°19.800N	084°50.500W	790	5.5	087	CALM	2648.8	158928
08/06/03	9:00	27°20.185N	084°49.032W	740	5.9	000	CALM	2354.8	141288
08/06/03	9:15	27°21.123N	084°50.011W	740	6.0	260	CALM	3304	198240
08/06/03	9:30	27°20.997N	084°51.427W	800	5.4	260	CALM	3315.2	198912
08/06/03	9:45	27°20.824N	084°52.891W	820	5.2	260	CALM	3458	207480
08/06/03	10:00	27°20.653N	084°54.383W	840	5.2	260	W-5	3424.4	205464
08/06/03	10:15	27°20.440N	084°55.838W	1000	5.2	260	W-5	3892	233520
08/06/03	10:30	27°20.287N	084°57.228W	1200	5.2	260	W-5	3914.4	234864
08/06/03	10:45	27°20.159N	084°59.116W	1300	5.4	270	W-5	2870	172200
08/06/03	11:00	27°20.123N	085°00.201W	1500	5.4	270	W-5	2920.4	175224
08/06/03	11:15	27°20.119N	085°01.703W	1680	5.4	270	W-5	2945.6	176736
08/06/03	11:30	27°20.086N	085°03.233W	1860	5.4	270	W-5	3024	181440
08/06/03	11:45	27°20.084N	085°04.758W	1910	5.5	270	W-5	3572.8	214368
08/06/03	12:00	27°20.043N	085°06.308W	2310	5.3	270	W-5	3511.2	210672
08/06/03	12:15	27°20.012N	085°07.812W	2550	5.3	270	W-5	3623.2	217392
08/06/03	12:30	27°19.981N	085°09.318W	2700	5.3	270	W-5	3472	208320
08/06/03	12:45	27°19.965N	085°10.822W	2838	5.3	270	W-5	3500	210000
08/06/03	13:00	27°19.966N	085°12.295W	2838	5.3	270	W-5	3754.8	225288
08/06/03	13:15	27°19.962N	085°13.812W	2940	5.5	270	W-5	3766	225960
08/06/03	13:30	27°20.005N	085°15.351W	3060	5.5	270	W-5	3172.4	190344
08/06/03	13:45	27°20.029N	085°16.895W	3300	5.5	270	W-5	3127.6	187656
08/06/03	14:00	27°20.744N	085°17.090W	3300	5.3	074	W-5	3606.4	216384
08/06/03	14:15	27°20.975N	085°15.371W	3000	5.8	085	W-5	3903.2	234192
08/06/03	14:30	27°21.135N	085°13.891W	2800	5.9	085	W-5	2562	153720
08/06/03	14:45	27°21.276N	085°12.257W	2800	5.8	085	W-5	2528.4	151704
08/06/03	15:00	27°21.420N	085°10.618W	2700	5.9	085	W-5	3183.6	191016
08/06/03	15:15	27°21.541N	085°08.980W	2550	5.8	085	W-5	2486.4	149184
08/06/03	15:30	27°21.686N	085°07.365W	2280	5.8	085	W-5	2360.4	141624
08/06/03	15:45	27°21.838N	085°05.768W	2088	5.6	085	W-5	3130.4	187824
08/06/03	16:00	27°21.978N	085°04.164W	1920	5.7	084	W-5	3626	217560
08/06/03	16:15	27°22.137N	085°02.550W	1500	5.7	084	W-5	2396.8	143808
08/06/03	16:22	27°22.225N	085°01.687W	1380	5.7	084	W-5	0	0
08/06/03	16:30	27°22.336N	085°00.137W	1360	5.7	084	W-5	0	0
08/06/03	16:45	27°22.459N	084°59.353W	1320	5.8	084	W-5	0	0
08/06/03	17:00	27°22.620N	084°57.773W	1320	5.8	084	W-5	0	0
08/06/03	17:15	27°22.765N	084°55.917W	1200	5.9	086	W-5	2578.8	154728
08/06/03	17:30	27°22.728N	084°54.466W	1080	4.9	086	W-5	2374.4	142464
08/06/03	17:45	27°22.792N	084°53.062W	960	4.7	086	W-5	2324	139440
08/06/03	18:00	27°22.802N	084°51.802W	960	4.6	086	W-5	2710.4	162624

Voyage	Date	Time	Lat.	Lon.	Depth (Fathoms)	Vessel Speed	Course	Wind Speed	Discharge Rate (GPM)	Comments	Discharge Rate (GPH)
6	08/10/03	0245	27 17.49	84 52.72	1080	5.2	270	SW 10	0		Start
	08/10/03	0300	27 17.49	84 54.18	1110	5.1	270	SW 10	2167.2		130032
	08/10/03	0315	24 17.48	84 55.60	1350	5.2	270	SW 10	2237.2		134232
	08/10/03	0330	27 17.54	84 57.08	1362	5.2	270	SW 10	2307.2		138432
	08/10/03	0345	27 17.58	84 58.55	1380	5.3	270	SW 10	3024		181440
	08/10/03	0400	27 17.63	85 00.09	1680	5.2	270	SW 10	3021.2		181272
	08/10/03	0415	27 17.66	85 01.50	1740	5.2	270	SW 10	2842		170520
	08/10/03	0430	27 17.68	85 02.97	1920	5.2	270	SW 10	2811.2		168672
	08/10/03	0445	27 17.66	85 04.45	2160	5.3	270	W 10	3038		182280
	08/10/03	0500	27 17.63	85 05.92	2400	5.3	270	W 10	3074.4		184464
	08/10/03	0515	27 17.65	85 07.53	2580	5.3	270	W 10	2632		157920
	08/10/03	0530	27 17.66	85 09.02	2700	5.3	270	W 10	2609.6		156576
	08/10/03	0545	27 17.68	85 10.49	2760	5.3	270	W 10	2772		166320
	08/10/03	0600	27 17.70	85 11.98	2940	5.3	270	W 10	2783.2		166992
	08/10/03	0615	27 17.71	85 13.51	3060	5.3	270	W 10	3096.8		185808
	08/10/03	0630	27 17.68	85 14.98	3300	5.3	270	W 10	3071.6		184296
	08/10/03	0645	27 17.64	85 16.45	3360	5.4	270	W 10	3057.6		183456
	08/10/03	0700	27 17.67	85 17.92	3600	5.3	270	W 10	3074.4		184464
	08/10/03	0715	27 17.62	85 19.49	4200	5.2	270	W 10	2604		156240
	08/10/03	0730	27 17.62	85 20.87	4500	5.1	270	W 10	2573.2		154392
	08/10/03	0745	27 17.63	85 22.00	4560	5.1	270	W 10	1540		92400
	08/10/03	0800	27 17.43	85 23.64	4998	4.9	270	W 10	1680		100800
	08/10/03	0815	27 17.37	85 25.07	5080	5.1	270	W 10	2396.8		143808
	08/10/03	0830	27 17.40	85 26.47	5210	5.1	270	W 10	2522.8		151368
	08/10/03	0845	27 17.41	85 27.90	5360	4.9	270	W 10	3948		236880

08/10/03	0900	27 17.42	85 29.26	6000	4.8	270	W 10	3962	237720
08/10/03	0915	27 17.44	85 30.62	7500	4.9	270	W 10	3192	191520
08/10/03	0930	27 17.46	85 31.99	9000	4.9	270	W 10	3175.2	190512
08/10/03	0945	27 17.46	85 33.31	10300	5.0	270	W 10	3189.2	191382
08/10/03	1000	27 17.49	85 34.79	10680	5.1	270	W 10	3225.6	193536
08/10/03	1015	27 17.50	85 36.23	10590	5.2	270	W 10	2632	157920
08/10/03	10:30	27 17.52	85 37.73	10595	5.2	270	W 10	2623.6	157416
08/10/03	10:45	27 17.52	85 39.15	10550	5.1	270	W 10	3757.6	225456
08/10/03	11:00	27 17.52	85 40.62	10650	5.2	270	W 10	3810.8	228648
08/10/03	11:15	27 17.51	85 42.33	10600	5.1	270	W 10	3718.4	223104
08/10/03	11:30	27 17.60	85 43.60	10595	5.0	270	W 10	3682	220920
08/10/03	11:45	27 17.41	85 44.00	10599	5.6	020	W 10	3416	204960
08/10/03	12:00	27 19.67	85 43.36	10620	5.6	036	W 5	3522.4	211344
08/10/03	12:15	27 19.44	85 41.95	10620	6.7	140	W 5	3883.6	233016
08/10/03	12:30	27 18.20	85 40.59	10674	6.9	140	W 5	3920	235200
08/10/03	12:45	27 17.79	85 38.93	10674	6.8	090	W 5	3883.6	233016
08/10/03	13:00	27 17.88	85 37.30	10674	5.3	087	W 5	3920	235200
08/10/03	13:15	27 17.90	85 35.82	10674	5.2	087	W 5	3494.4	209664
08/10/03	13:30	27 17.92	85 34.37	10674	5.1	087	W 5	3452.4	207144
08/10/03	13:45	27 17.97	85 32.94	10668	5.1	087	W 5	3421.6	205296
08/10/03	14:00	27 18.03	85 31.49	10668	5.1	087	W 5	3382.4	202944
08/10/03	14:15	27 18.10	85 30.06	10668	5.2	087	W 5	3528	211680
08/10/03	14:30	27 18.14	85 28.59	9600	5.2	087	W 5	3631.6	217896
08/10/03	14:45	27 18.21	85 27.12	5850	5.2	087	W 5	3516.8	211008
08/10/03	15:00	27 18.27	85 25.63	5340	5.2	087	W 5	3438.4	206304
08/10/03	15:15	27 18.31	85 24.14	4998	5.2	087	W 5	3875.2	232512
08/10/03	15:30	27 18.36	85 22.68	4800	5.2	087	W 5	3959.2	237552
08/10/03	15:45	27 18.43	85 21.20	3900	5.3	087	W 5	3813.6	228816
08/10/03	1600	27 18.51	85 19.63	3600	5.3	087	W 5	3690.4	221424
08/10/03	1615	27 18.57	85 18.14	3360	5.5	087	W 5	4006.8	240408
08/10/03	1630	27 18.62	84 16.62	3300	5.5	087	W 5	4040.4	242424
08/10/03	1645	27 18.69	85 15.07	3150	5.6	087	W 5	3542	212520
08/10/03	1700	27 18.75	85 13.52	3000	5.7	087	SW 5	3514	210840
08/10/03	1715	27 18.80	85 11.72	2850	5.7	087	SW 5	3634.4	218064
08/10/03	1730	27 18.84	85 10.27	2700	5.7	087	SW 5	3654	219240
08/10/03	1745	27 19.01	85 08.68	3060	5.6	087	SW 5	3609.2	216552
08/10/03	1800	27 19.29	85 07.15	2540	5.7	087	SW 5	3592.4	215544
08/10/03	1815	27 19.49	85 05.64	2160	5.8	087	SW 5	3774.4	226464
08/10/03	1830	27 19.49	85 04.01	1950	5.8	087	SW 5	3791.2	227472
08/10/03	1845	27 19.55	85 02.36	1800	5.5	087	SW 5	3665.2	219912
08/10/03	1900	27 19.64	85 00.84	1500	5.4	087	SW 5	3642.8	218568
08/10/03	1915	27 19.72	84 59.32	1380	5.3	087	SW 5	3533.6	212016
08/10/03	1930	27 19.76	84 57.79	1350	5.4	087	SW 5	3550.2333	213014
08/10/03	1945	27 19.84	84 56.30	1218	5.5	088	SW 5	3852.8	231168
08/10/03	2000	27 19.94	84 54.78	1190	5.5	088	SW 5	3743.6	224616
08/10/03	2015	27 19.99	84 53.27	1140	5.3	088	SW 5	3696	221760
08/10/03	2030	27 19.96	84 51.78	1090	5.4	088	SW 5	3693.2	221592
08/10/03	2045	27 19.96	84 50.26	1080	5.5	088	SW 10	3682	220920
08/10/03	2100	27 20.49	84 49.90	1080	5.1	270	SW 10	3600.8	216048
08/10/03	2115	27 20.50	84 50.50	1080	5.0	270	SW 10	3987.2	239232
08/10/03	2130	27 20.51	84 52.62	1100	5.7	270	SW 10	3964.8	237888
08/10/03	2145	27 20.39	84 54.13	1180	5.4	270	SW 10	3502.8	210168
08/10/03	2200	27 20.24	84 55.57	1195	5.1	270	SW 10	3444	206640
08/10/03	2215	27 20.12	84 56.96	1219	5.1	270	SW 10	3735.2	224112
08/10/03	2230	27 20.10	84 58.41	1340	5.2	270	SW 10	3791.2	227472
08/10/03	2245	27 20.06	84 59.85	1400	5.2	270	SW 10	3894.8	233688
08/10/03	2300	27 20.02	85 01.35	1500	5.2	270	SW 10	3922.8	235368
08/10/03	2315	29 19.97	85 02.83	1800	5.2	270	SW 10	3785.6	227136
08/10/03	2330	29 19.98	85 04.37	2020	5.3	270	SW 10	3735.2	224112
08/10/03	2345	29 20.01	85 05.86	2100	5.4	270	SW 10	3931.2	235872
08/10/03	2400	27 20.06	85 07.41	2400	5.5	270	W 5	3984.4	239064
08/11/03	0015	27 20.11	85 08.96	2550	5.5	270	W 5	3962	237720
08/11/03	0030	27 20.11	85 10.51	2700	5.8	270	W 5	3906	234360
08/11/03	0045	27 20.12	85 12.08	2850	5.9	270	W 5	4032	241920
08/11/03	0100	27 20.12	85 13.68	2940	5.9	270	W 5	3984.4	239064
08/11/03	0115	27 20.15	85 15.25	3060	6.1	270	W 5	3976	238560
08/11/03	0130	27 20.17	85 16.86	3300	6.2	270	W 5	3444	206640
08/11/03	0145	27 20.82	85 16.96	3300	6.3	085	W 5	3673.6	220416
08/11/03	0200	27 21.04	85 15.33	3000	5.8	085	W 5	3841.6	230496
08/11/03	0215	27 21.22	85 13.68	2880	5.9	085	W 5	3698.8	221928
08/11/03	0230	27 21.42	85 12.01	2838	5.9	085	W 5	3640	218400
08/11/03	0245	27 21.60	85 10.28	2700	6.1	085	W 5	3676.4	220584
08/11/03	0300	27 21.77	85 08.60	2520	6.2	085	W 5	3763.2	225792
08/11/03	0315	27 21.96	85 06.74	2250	6.3	085	W 5	3609.2	216552
08/11/03	0330	27 22.13	85 05.00	2040	6.3	085	W 5	3514	210840
08/11/03	0345	27 22.30	85 03.21	1740	6.4	085	W 5	3698.8	221928
08/11/03	0400	27 22.45	85 01.47	1500	6.3	085	SW 5-10	3850	231000
08/11/03	0415	27 22.58	84 59.72	1380	6.0	085	SW 5-10	3578.4	214704
08/11/03	0430	27 22.70	84 58.01	1320	5.4	085	SW 5-10	3553.2	213192
08/11/03	0445	27 22.79	84 56.50	1200	5.4	085	SW 5-10	3500	210000
08/11/03	0500	27 22.84	84 55.05	1081	5.3	085	SW 5-10	3511.2	210672
08/11/03	0515	27 22.88	84 53.47	1020	5.5	085	SW 5-10	4006.8	240408
08/11/03	0530	27 22.93	84 51.59	900	8.5	085	SW 5-10	3990	239400

Voyage	Date	Time	Lat.	Lon.	Depth (Fathoms)	Speed (Knots)	Course	Speed Direction	Discharge Rate (GPM)	Comments	Discharge Rate (GPH)
7	08/13/03	1945	27 17.58	84 50.57	906	7.8	265	E 10	0		Start
	08/13/03	2000	27 17.54	84 52.44	1170	6.4	270	E 10	2979.2		178752
	08/13/03	2015	27 17.56	84 54.31	1140	5.0	270	E 10	3035.2		182112
	08/13/03	2030	27 17.58	84 55.79	1362	5.1	270	E 10	2884		173040
	08/13/03	2045	27 17.61	84 57.24	1374	5.1	270	E 10	2822.4		169344
	08/13/03	2100	27 17.62	84 58.70	1380	5.2	270	NE10	3589.6		215376
	08/13/03	2115	27 17.65	85 00.17	1566	5.1	270	NE10	3617.6		217056

08/13/03	2130	27 17.65	85 01.62	1890	5.3	270	NE10	3399.2	203952
08/13/03	2145	27 17.65	85 03.10	2460	5.1	270	NE10	3432.8	205968
08/13/03	2200	27 17.67	85 04.54	2460	5.1	270	NE10	3953.6	237216
08/13/03	2215	27 17.60	85 06.03	2472	5.4	270	NE10	3908.8	234528
08/13/03	2230	27 17.57	85 07.49	2880	5.1	270	NE10	3161.2	189672
08/13/03	2245	27 17.52	85 08.93	2885	5.2	270	NE10	3133.2	187992
08/13/03	2300	27 17.46	85 10.37	2928	5.1	270	NE10	3500	210000
08/13/03	2315	27 17.46	85 11.43	2952	5.2	270	NE10	3612	216720
08/13/03	2330	27 17.48	85 13.27	3030	5.1	270	NE10	3460.8	207648
08/13/03	2345	27 17.48	85 14.71	3360	5.2	270	NE10	3483.2	208992
08/13/03	2400	27 17.47	85 16.19	3360	5.3	270	NE10	3432.8	205968
08/14/03	0015	27 17.33	85 17.67	3600	5.3	270	NE10	3516.8	211008
08/14/03	0030	27 17.30	85 19.17	3900	5.3	270	NE10	3656.8	219408
08/14/03	0045	27 17.25	85 20.67	4200	5.3	270	NE10	3729.6	223776
08/14/03	0100	27 17.20	85 22.26	4950	5.4	270	NE10	3561.6	213696
08/14/03	0115	27 17.14	85 23.77	4998	5.6	270	NE10	3528	211680
08/14/03	0130	27 17.10	85 25.40	5400	5.9	270	NE10	3693.2	221592
08/14/03	0145	27 17.08	85 26.98	5700	5.5	270	NE10	3712.8	222768
08/14/03	0200	27 17.11	85 28.51	9000	5.5	270	NE10	3763.2	225792
08/14/03	0215	27 17.17	85 30.11	10668	5.8	270	NE10	3416	204960
08/14/03	0230	27 17.21	85 31.78	10678	6.0	270	NE10	3404.8	204288
08/14/03	0245	27 17.26	85 33.48	10678	6.1	270	NE10	3550.4	213024
08/14/03	0300	27 17.29	85 35.23	10678	6.2	270	NE10	3575.6	214536
08/14/03	0315	27 17.29	85 36.95	10678	5.8	270	NE10	3539.2	212352
08/14/03	0330	27 17.35	85 38.57	10678	5.6	270	NE10	3514	210840
08/14/03	0345	27 17.46	85 40.62	10680	5.4	270	NE 15	3609.2	216552
08/14/03	0400	27 17.50	85 41.65	10670	5.4	270	NE 15	3623.2	217392
08/14/03	0415	27 17.55	85 43.16	10670	5.5	300	NE 15	3494.4	209664
08/14/03	0430	27 18.27	85 44.29	10650	4.8	340	NE 15	3483.2	208992
08/14/03	0445	27 19.15	85 45.85	10650	4.9	100	NE 15	3724	223440
08/14/03	0500	27 19.04	85 42.46	10680	5.0	088	NE 15	3740.8	224448
08/14/03	0515	27 19.12	85 41.06	10680	5.0	088	NE 15	3374	202440
08/14/03	0530	27 19.14	95 39.64	10680	5.0	090	NE 15	3340.4	204024
08/14/03	0545	27 19.13	85 38.29	10680	4.5	090	NE 15	3052	183120
08/14/03	0600	27 19.07	85 37.00	10680	4.7	090	NE 15-20	3102.4	186144
08/14/03	0615	27 19.04	85 35.68	10680	4.7	090	NE 15-20	3934	236040
08/14/03	0630	27 19.05	85 24.39	10680	4.7	090	NE 15-20	3925.6	235536
08/14/03	0645	27 19.07	85 33.08	10680	4.5	090	NE 15-20	2634.8	158088
08/14/03	0700	27 19.08	85 31.79	10668	4.5	090	NE 15-20	2665.6	159936
08/14/03	0715	27 19.09	85 30.51	10668	4.6	088	NE 15-20	2436	146160
08/14/03	0730	27 19.07	85 29.23	10200	4.5	088	NE 15-20	2424.8	145488
08/14/03	0745	27 19.07	85 27.94	9000	4.6	088	NE 15-20	2433.2	145992
08/14/03	0800	27 19.08	85 26.66	7500	4.4	088	NE 15-20	2382.8	142968
08/14/03	0815	27 19.08	85 25.01	5990	4.5	088	NE 15-20	3936.8	236208
08/14/03	0830	27 19.08	85 24.17	4998	4.5	088	NE 15-20	3920	235200
08/14/03	0845	27 19.10	85 22.89	4800	4.6	088	NE 15-20	3914.4	234864
08/14/03	0900	27 19.14	85 21.58	4500	4.6	088	NE 15-20	3953.6	237216
08/14/03	0915	27 19.16	85 20.32	4080	4.6	088	NE 15-20	3948	236880
08/14/03	0930	27 19.20	85 19.06	4188	4.6	088	NE 15-20	3920	235200
08/14/03	0945	27 19.22	85 17.79	3528	4.5	088	NE 15-20	3284.4	197064
08/14/03	1000	27 19.21	85 16.50	3318	4.5	088	NE 15-20	3332	199920
08/14/03	1015	27 19.27	86 15.22	3211	4.6	088	NE 20	3304	198240
08/14/03	1030	27 19.25	85 13.97	3000	4.3	088	NE 20	3194.8	191688
08/14/03	1045	27 19.19	85 12.74	2880	4.5	088	NE 20	3290	197400
08/14/03	1100	27 19.19	85 11.49	2400	4.6	088	NE 20	3304	198240
08/14/03	1115	27 19.16	85 10.22	2778	4.6	088	NE 20	3533.6	212016
08/14/03	1130	27 19.19	85 08.97	2700	4.4	088	NE 18-20	3500	210000
08/14/03	1145	27 19.20	85 07.75	2550	4.2	088	NE 20	3040.8	182448
08/14/03	1200	27 19.23	85 06.53	2400	4.2	088	NE 20	3012.8	180768
08/14/03	1215	27 19.26	85 05.27	2100	4.5	088	NE 20	3113.6	186816
08/14/03	1230	27 19.33	85 04.01	2010	4.4	088	NE 20	3158.4	189504
08/14/03	1245	27 19.40	85 02.78	1800	4.5	088	NE 20	3320.8	199248
08/14/03	1300	27 19.47	85 01.51	1650	4.6	088	NE 20	3396.4	203784
08/14/03	1315	27 19.78	85 00.20	1500	4.8	088	NE 20	3592.4	215544
08/14/03	1330	27 20.15	84 58.92	1450	4.9	088	NE 20	3645.6	218736
08/14/03	1345	27 20.58	84 57.59	1362	4.9	088	NE 20	3474.8	208488
08/14/03	1400	27 21.00	84 56.28	1290	5.0	088	NE 20	3446.8	206808
08/14/03	1415	27 21.45	84 54.93	1140	5.2	088	NE 20	3410.4	204624
08/14/03	1430	27 21.94	84 53.57	1080	5.2	088	NE 20	3284.4	197064
08/14/03	1445	27 22.44	84 52.24	1050	5.2	088	NE 20	2794.4	167664
08/14/03	1500	27 22.95	84 50.92	970	5.2	088	NE 20	2472.4	148344
08/14/03	1515	27 23.85	84 49.98	840	6.9	353	NE 20	4012.4	240744
08/14/03	1530	27 24.93	84 51.56	900	7.6	270	NE 20	4046	242760
08/14/03	1545	27 24.80	84 53.57	1086	7.1	270	NE 20-25	3763.2	225792
08/14/03	1600	27 24.89	84 55.57	1200	6.6	260	NE 20-25	3735.2	224112
08/14/03	1615	27 24.82	84 57.37	1320	6.2	260	NE 20-25	3665.2	219912
08/14/03	1630	27 24.73	84 58.99	1362	5.4	265	NE 20-25	3704.4	222264
08/14/03	1645	27 24.65	85 00.46	1560	5.3	265	NE 20-25	3721.2	223272
08/14/03	1700	27 24.59	85 01.95	1566	5.2	265	NE 20-25	3693.2	221592
08/14/03	1715	27 24.56	85 03.38	1680	5.2	265	NE 20-25	3838.8	230328
08/14/03	1730	27 24.52	85 04.86	1920	5.3	265	NE 20-25	3852.8	231168
08/14/03	1745	27 24.41	85 06.31	2100	5.3	265	NE 20-25	3609.2	216552
08/14/03	1800	27 24.30	85 07.78	2250	5.3	265	NE 20-25	3592.4	215544
08/14/03	1815	27 24.19	85 09.31	2400	5.3	265	NE 20-25	3939.6	236376
08/14/03	1830	27 24.08	85 10.81	2550	5.3	265	NE 20-25	3956.4	237384
08/14/03	1845	27 24.0	85 12.33	2760	5.5	265	NE 20-25	3404.8	204288
08/14/03	1900	27 23.89	85 13.87	2910	5.5	265	NE 20-25	3399.2	203952
08/14/03	1915	27 23.81	85 15.45	2880	6.2	265	NE 25-30	3724	223440
08/14/03	1930	27 23.78	85 17.18	3012	6.1	265	NE 25-30	3743.6	224616
08/14/03	1945	27 23.64	85 18.87	3300	6.0	265	NE 25-30	3780	228800
08/14/03	2000	27 23.56	85 20.54	3376	5.8	265	NE 25-30	3690.4	221424
08/14/03	2015	27 23.49	85 22.16	3480	5.6	265	NE 25-30	3446.8	206808
08/14/03	2030	27 23.43	85 23.80	4250	5.7	265	NE 25-30	3533.6	212016

08/14/03	2045	27 23.34	85 25.35	4500	5.5	265	NE 25-30	3544.8	212688
08/14/03	2100	27 23.24	85 26.90	6100	5.5	265	NE 25-30	3480.4	208824
08/14/03	2115	27 23.13	85 28.44	9000	5.5	265	NE 25-30	3578.4	214704
08/14/03	2130	27 23.00	85 29.98	10141	5.6	265	NE 25-30	3528	211680
08/14/03	2145	27 22.88	85 31.57	10596	6.0	265	NE 25-30	3164	189840
08/14/03	2200	27 22.77	85 33.17	10425	5.0	290	NE 25-30	3197.6	191856
08/14/03	2215	27 23.73	85 33.53	10310	4.5	355	NE 25-30	3281.6	196896
08/14/03	2230	27 24.07	85 32.78	10200	4.1	080	NE 25-30	3382.4	202944
08/14/03	2245	27 24.27	85 31.75	10080	4.1	090	NE 25-30	3388	203280
DELAY--2250 TO 2300-- SHUT DOWN WHILE TOW WIRE (SPEED UNDER 4KTS)									
08/14/03	2300	27 24.40	85 30.87	9000	4.8	090	NE 25-30	2100	126000
08/14/03	2315	27 24.45	85 29.41	7500	5.0	090	NE 25-30	3704.4	222264
08/14/03	2330	27 24.50	85 28.12	6000	5.1	090	NE 25-30	3788.4	227304
08/14/03	2345	27 24.54	85 26.63	5000	5.0	090	NE 25-30	3810.8	228648
08/15/03	0001	27 24.59	85 25.21	4200	4.8	090	NE 25-30	3682	220920
08/15/03	0015	27 24.66	85 23.81	3966	5.0	090	NE 25-30	3908.8	234528
08/15/03	0030	27 24.73	85 22.40	3360	4.8	090	NE 25-30	3785.6	227136
08/15/03	0045	27 24.85	85 20.90	3360	4.5	090	NE 25-30	3558.8	213528
08/15/03	0100	27 24.91	85 19.60	3300	5.4	090	NE 25-30	3617.6	217056
08/15/03	0115	27 25.00	85 18.14	3150	5.2	090	NE 25-30	3586.8	215208
08/15/03	0130	27 25.08	85 16.67	2880	5.7	090	NE 25-30	3648.4	218904
08/15/03	0145	27 25.12	85 15.03	2820	5.5	090	NE 25-30	3654	219240
08/15/03	0200	27 25.20	85 13.48	2700	5.8	090	NE 25-30	3679.2	220752
08/15/03	0215	27 25.23	85 11.85	2580	5.7	090	NE 25-30	3654	219240
08/15/03	0230	27 25.28	85 10.26	2400	5.9	090	NE25-30	3698.8	221928
08/15/03	0245	27 25.29	85 08.64	2100	5.8	090	NE 25-30	3813.6	228816
08/15/03	0300	27 25.33	85 07.03	2088	6.1	090	NE 25-30	3774.4	228464
08/15/03	0315	27 25.42	85 05.41	1950	6.1	090	NE 25-30	3494.4	209664
08/15/03	0330	27 25.46	85 03.68	1740	6.1	090	NE 25-30	3337.6	200256
08/15/03	0345	27 25.53	85 01.97	1600	6.0	090	NE 25-30	3676.4	220584
08/15/03	0400	27 25.58	85 00.26	1380	6.0	095	E 25-30	3726.8	223608
08/15/03	0415	27 25.61	84 58.51	1320	6.3	095	E 25-30	2520	151200
08/15/03	0430	27 25.59	84 56.78	1200	5.9	095	E 25-30	2307.2	138432
08/15/03	0445	27 25.56	84 55.04	1086	6.3	095	E 25-30	3301.2	198072
08/15/03	0500	27 25.61	84 53.26	960	6.4	090	SE 25	3348.8	200928
08/15/03	0515	27 25.69	84 51.48	840	6.5	090	SE 25	420	25200
08/15/03	0530	27 25.75	84 49.69	810	6.4	090	SE 25	291.2	17472

Voyage	Date	Time	Lat.	Lon.	Depth (Fathoms)	Vessel Speed (Knots)	Course	Wind Speed Direction	Discharge Rate (GPM)	Comments	Discharge Rate (GPH)
8	08/18/03	0900	27 17.42N	84 49.73W	846	8.4	270	S 7	0	Start	Start
	08/18/03	0915	27 17.34N	84 51.89W	1100	6.5	270	S 7	3628.8		217728
	08/18/03	0930	27 17.27N	84 53.66W	1170	5.2	270	S 7	3710		222600
	08/18/03	0945	27 17.29N	84 55.20W	1210	5.4	270	S 7	3057.6		183456
	08/18/03	1000	27 17.34N	84 56.77W	1365	5.6	270	S 7	2940		176400
	08/18/03	1015	27 17.38N	84 58.28W	1488	5.3	270	SW 10	3922.8		235368
	08/18/03	1030	27 17.48N	84 59.73W	1550	5.1	270	SW 10	3934		236040
	08/18/03	1045	27 17.60N	85 01.23W	1700	5.3	270	SW 10	3869.6		232176
	08/18/03	1100	27 17.52N	85 02.75W	1820	5.4	270	SW 10	3780		228800
	08/18/03	1115	27 17.70N	85 04.30W	2280	5.3	270	SW 10	3813.6		228816
	08/18/03	1130	27 17.71N	85 05.74W	2400	5.4	270	SW 10	3928.4		235704
	08/18/03	1145	27 17.71N	85 07.32W	2450	5.4	270	SW 10	3642.8		218568
	08/18/03	1200	27 17.74N	85 08.83W	2700	5.4	270	SW 10	3595.2		215712
	08/18/03	1215	27 17.83N	85 10.37W	2850	5.5	270	SW 10	3502.8		210168
	08/18/03	1230	27 17.78N	85 11.91W	2940	5.5	270	SW 10	3528		211680
	08/18/03	1245	27 17.75N	85 13.49W	3318	5.6	270	SW 10	3710		222600
	08/18/03	1300	27 17.76N	85 15.08W	3600	5.6	270	Calm	3732.4		223944
	08/18/03	1315	27 17.72	85 16.67	3750	5.7	270	Calm	3861.2		231672
	08/18/03	1330	27 17.67	85 18.27	3960	5.6	270	Calm	3878		232680
	08/18/03	1345	27 17.61	85 19.85	4050	5.6	270	Calm	3892		233520
	08/18/03	1400	27 17.57	85 21.35	4200	5.2	270	Calm	3950.8		237048
	08/18/03	1415	27 17.54	85 22.82	4800	5.2	270	Calm	3661		219660
	08/18/03	1430	27 17.59	85 24.27	4998	5.1	270	Calm	3642.8		218568
	08/18/03	1445	27 17.63	85 25.70	5400	5.2	270	Calm	3244.9167		194695
	08/18/03	1500	27 17.65	85 27.16	5850	5.1	270	Calm	3217.2		193032
	08/18/03	1515	27 17.70	85 28.54	9000	4.9	270	Calm	3528		211680
	08/18/03	1530	27 17.73	85 29.95	10668	5.0	270	Calm	3539.2		212352
	08/18/03	1545	27 17.69	85 31.28	10674	4.7	270	Calm	4116		246960
	08/18/03	1600	27 17.66	85 32.61	10670	4.6	270	Calm	4135.6		248136
	08/18/03	1615	27 17.66	85 33.95	10680	4.8	270	Calm	3889.2		233352
	08/18/03	1630	27 17.65	85 35.24	10680	4.6	270	Calm	3872.4		232344
	08/18/03	1645	27 17.64	85 36.57	10680	4.9	270	Calm	3696		221760
	08/18/03	1700	27 17.64	85 37.97	10680	5.0	270	Calm	3732.4		223944
	08/18/03	1715	27 17.69	85 39.37	10680	5.0	270	Calm	3892		233520
	08/18/03	1730	27 17.73	85 40.75	10680	4.9	270	Calm	3869.6		232176
	08/18/03	1745	27 17.69	85 42.09	10680	4.9	270	Calm	4144		248640
	08/18/03	1800	27 17.74	85 43.45	10680	4.9	300	Calm	4160.8		249648
	08/18/03	1815	27 18.74	85 43.75	10680	4.6	040	Calm	3194.8		191688
	08/18/03	1830	27 19.09	85 42.53	10680	4.5	087	Calm	3172.4		190344
	08/18/03	1845	27 19.24	85 41.17	10680	4.8	087	Calm	3906		234360
	08/18/03	1900	27 19.31	85 39.83	10680	5.1	087	Calm	3922.8		235368
	08/18/03	1915	27 19.39	85 38.37	10680	5.3	087	Calm	3606.4		216384
	08/18/03	1930	27 19.43	85 36.87	10680	5.3	087	Calm	3595.2		215712
	08/18/03	1945	27 19.49	85 35.40	10680	5.1	087	Calm	3808		228480
	08/18/03	2000	27 19.57	85 33.95	10680	5.2	087	Calm	3830.4		229824
	08/18/03	2015	27 19.70	85 32.49	10600	5.3	087	Calm	3771.6		226296
	08/18/03	2030	27 19.74	85 30.98	10599	5.3	087	Calm	3735.2		224112
	08/18/03	2045	27 19.74	85 29.51	10500	5.0	087	Calm	3889.2		233352
	08/18/03	2100	27 19.77	85 28.04	9000	5.3	087	Calm	3936.8		236208
	08/18/03	2115	27 19.80	85 26.58	7500	5.1	087	Calm	3721.2		223272
	08/18/03	2130	27 19.86	85 25.11	6000	5.2	087	Calm	3785.6		227136
	08/18/03	2145	27 19.99	85 23.67	4998	5.0	087	Calm	3659.6		219576
	08/18/03	2200	27 20.09	85 22.33	4800	4.6	087	Calm	3648.4		218904

08/18/03	2215	27 20.15	85 21.04	3600	4.4	087	Calm	3698.8		221928
08/18/03	2230	27 20.21	85 19.65	3580	5.2	087	Calm	3729.6		223776
08/18/03	2245	27 20.28	85 18.18	3300	5.3	087	Calm	3746.4		224784
08/18/03	2300	27 20.34	85 16.68	3138	5.4	087	Calm	3796.8		227808
08/18/03	2315	27 20.41	85 15.14	3055	5.2	087	Calm	3645.6		218736
08/18/03	2330	27 20.47	85 13.73	2838	5.2	087	Calm	3640		218400
08/18/03	2345	27 20.54	85 12.25	2820	5.4	087	Calm	3892		233520
08/18/03	2400	27 20.60	85 10.72	2760	5.5	087	Calm	3931.2		235872
08/19/03	0015	27 20.67	85 09.15	2550	5.7	087	Calm	3704.4		222264
08/19/03	0030	27 20.69	85 07.54	2400	5.7	087	Calm	3682		220920
08/19/03	0045	27 20.75	85 05.91	2250	5.8	087	Calm	3640		218400
08/19/03	0100	27 20.83	85 04.36	1950	5.2	087	Calm	3696		221760
08/19/03	0115	27 20.93	85 02.89	1740	5.3	087	Calm	3561.6		213696
08/19/03	0130	27 21.02	85 01.41	1650	5.3	087	Calm	3542		212520
08/19/03	0145	27 21.08	84 59.91	1500	5.4	087	Calm	3360		201600
08/19/03	0200	27 21.10	84 58.38	1362	5.5	087	Calm	3337.6		200256
08/19/03	0215	27 21.10	84 56.79	1260	5.5	087	Calm	3267.6		196056
08/19/03	0230	27 21.10	84 55.27	1086	5.6	087	Calm	3273.2		196392
08/19/03	0245	27 21.07	84 53.69	1050	5.5	087	Calm	3469.2		208152
08/19/03	0300	27 21.04	84 52.14	900	5.6	087	Calm	3480.4		208824
08/19/03	0315	27 20.97	84 50.57	840	5.7	087	Calm	3682		220920
08/19/03	0330	27 21.21	84 49.07	840	5.2	053	Calm	3696		221760
08/19/03	0345	27 22.19	84 48.80	810	4.5	300	Calm	3628.8		217728
08/19/03	0400	27 22.34	84 50.10	900	4.7	270	Calm	3641.4		218484
08/19/03	0415	27 22.31	84 51.41	960	4.6	270	Calm	2772		166320
08/19/03	0430	27 22.24	84 52.67	1050	4.5	270	Calm	2752.4		165144
08/19/03	0445	27 22.16	84 53.99	1086	4.5	270	Calm	3855.6		231336
08/19/03	0500	27 22.08	84 55.29	1140	4.7	270	Calm	3878		232680
08/19/03	0515	27 22.01	84 56.63	1320	4.7	270	Calm	3550.4		213024
08/19/03	0530	27 21.95	84 57.98	1350	4.8	270	SW 5	3528		211680
08/19/03	0545	27 21.93	84 59.37	1500	4.9	270	SW 5	3533.6		212016
08/19/03	0600	27 21.91	85 00.75	1650	4.9	270	SW 5	3544.8		212688
08/19/03	0615	27 21.93	85 02.15	1680	5.1	270	SW 5	3474.8		208488
08/19/03	0630	27 21.94	85 03.59	1800	5.1	270	SW 5	3460.8		207648
08/19/03	0645	27 21.95	85 05.02	2100	5.1	270	SW 5	3718.4		223104
08/19/03	0700	27 21.94	85 06.48	2220	5.2	270	S 5	3690.4		221424
08/19/03	0715	27 21.92	85 07.91	2400	5.2	270	S 5	3875.2		232512
08/19/03	0730	27 21.89	85 09.41	2550	5.4	270	S 5	3900.4		234024
08/19/03	0745	27 21.87	85 10.96	2838	5.5	270	S 5	3942.4		236544
08/19/03	0800	27 21.88	85 12.53	2950	5.6	270	S 5	3981.6		238896
08/19/03	0815	27 21.96	85 14.13	2880	5.7	270	S 5	3936.8		236208
08/19/03	0830	27 22.00	85 15.70	3000	5.6	270	S 5	2660		159600
08/19/03	0845	27 22.03	85 17.26	3300	5.5	270	S 5	2648.8		158928
08/19/03	0900	27 22.07	85 19.55	4100	5.8	270	S 5	2637.6		158256
08/19/03	0915	27 22.05	85 20.49	4400	5.9	270	S 5	3511.2		210672
08/19/03	0930	27 21.98	85 22.15	4560	6.0	270	S 5	3556		213360
08/19/03	0945	27 21.90	85 23.82	4800	5.7	270	S 5	3964.8		237888
08/19/03	1000	27 21.78	85 23.40	6000	5.4	270	S 5	3987.2		239232
08/19/03	1015	27 21.63	85 26.95	7500	5.4	270	S 5	3864		231840
08/19/03	1030	27 21.57	85 28.56	9300	5.6	270	S 5	3858.4		231504
08/19/03	1045	27 21.58	85 30.11	10680	5.4	270	S 5	3768.8		226128
08/19/03	1100	27 21.64	85 31.61	10680	5.7	270	S 8	3735.2		224112
08/19/03	1115	27 21.73	85 33.22	10680	5.8	270	S 8	3735.2		224112
08/19/03	1130	27 21.85	85 34.88	10680	6.0	270	S 8	3757.6		225456
08/19/03	1145	27 21.95	85 36.60	10680	6.2	270	S 8	3841.6		230496
08/19/03	1200	27 21.99	85 38.34	10680	6.2	270	S 8	3869.6		232176
08/19/03	1215	27 21.88	85 40.12	10680	6.3	270	S 8	3934		236040
08/19/03	1230	27 21.81	85 41.86	10680	6.1	270	S 8	3962		237720
08/19/03	1245	27 21.83	85 43.57	10680	6.1	270	NW 5-10	3724		223440
08/19/03	1300	27 22.36	85 45.09	10680	6.1	333	NW 5-10	3740.8		224448
08/19/03	1315	27 23.47	85 44.71	10680	4.8	076	NW 5-10	3932.6		235956
08/19/03	1330	27 23.62	85 43.37	10680	4.9	090	NW 5-10	3943.8		236628
08/19/03	1345	27 23.68	85 41.99	10680	4.9	090	NW 5-10	3754.8		225288
08/19/03	1400	27 23.72	85 40.61	10680	4.8	090	W 5-10	3768.8		226128
08/19/03	1415	27 23.92	85 37.91	10680	5.5	090	CALM	3780		226800
08/19/03	1430	27 23.98	85 37.49	10680	5.7	090	CALM	3796.8		227808
08/19/03	1445	27 24.08	85 36.34	10680	5.6	090	E 10	3640		218400
08/19/03	1500	27 24.26	85 34.82	10680	5.2	090	E 10	3600.8		216048
08/19/03	1515	27 24.41	85 33.31	10668	6.3	090	CALM	3332		199920
08/19/03	1530	27 24.56	85 31.36	9000	7.1	090	CALM	3206		192360
08/19/03	1545	27 29.72	85 29.40	7800	6.4	088	W 5-10	3147.2		188832
08/19/03	1600	27 24.89	85 27.57	5100	7.7	088	W 5	3158.4		189504
08/19/03	1615	27 25.01	85 25.28	4020	8.7	088	W 5	2548		152880
08/19/03	1630	27 25.08	85 22.73	3498	9.0	088	W 5	1965.6		117936
08/19/03	1645	27 25.14	85 20.19	3300	8.9	088	W 5	1764		105840
08/19/03	1700	27 25.18	85 17.68	2940	9.1	088	W 5	1512		90720
08/19/03	1715	27 25.25	85 15.12	2820	9.2	088	W 5	280		16800
08/19/03	1725	27 25.27	85 12.10	2700	9.2	088	E 10	204.4		12264

Voyage	Date	Time	Lat.	Lon.	Depth (Fathoms)	Vessel Speed (Knots)	Course	Wind Speed Direction	Discharge Rate (GPM)	Comments	Discharge Rate (GPH)
9	08/22/03	1600	27-17.86	084-49.54	853	6.3	270	SW 6-7	0	START	0
	08/22/03	1615	27-17.80	084-51.03	925	4.8	270	SW 6-7	3116.4		186984
	08/22/03	1630	27-17.87	084-51.31	1080	4.8	270	SW 6-7	3085.6		185136
	08/22/03	1645	27-17.97	084-56.63	1140	4.5	270	SW 6-7	3410.4		204624
	08/22/03	1700	27-18.15	084-54.91	1210	4.5	270	SW 6-7	3396.4		203784
	08/22/03	1715	27-18.26	084-56.14	1320	4.5	270	SW 6-7	3726.8		223608
	08/22/03	1730	27-18.26	084-57.43	1362	4.5	270	SW 6-7	3735.2		224112
	08/22/03	1745	27-18.22	084-58.68	1500	4.7	270	SW 6-7	3732.4		223944
	08/22/03	1800	27-18.13	085-00.02	1560	4.9	270	SW 6-7	3712.8		222768
	08/22/03	1815	27-18.07	085-01.50	1650	4.9	270	W 4-8	2744		164640
	08/22/03	1830	27-18.02	085-02.91	1800	4.9	270	W 4-8	2760.8		165648
	08/22/03	1845	27-17.91	085-04.28	1850	5.0	270	W 4-8	3967.6		238056

08/22/03	1900	27-17.81	085-05.67	2460	4.7	270	W 4-8	3953.6	237216
08/22/03	1915	27-17.71	085-06.00	2640	4.8	270	W 4-8	3354.4	201264
08/22/03	1930	27-17.64	085-08.34	2760	4.7	270	W 4-8	3365.6	201936
08/22/03	1945	27-17.56	085-09.70	2850	4.7	270	W 4-8	3374	202440
08/22/03	2000	27-17.51	085-11.05	2730	4.8	270	W 4-8	3449.6	206976
08/22/03	2015	27-17.47	085-12.34	2750	4.8	270	W 4-8	3038	182280
08/22/03	2030	27-17.40	085-13.68	2850	4.7	270	W 4-8	2954	177240
08/22/03	2045	27-17.34	085-14.97	3240	4.8	270	W 4-8	3141.6	188496
08/22/03	2100	27-17.32	085-16.30	3330	4.8	270	W 4-8	3256.4	195384
08/22/03	2115	27-17.33	085-17.62	3480	4.7	270	W 4-8	3290	197400
08/22/03	2130	27-17.33	085-19.01	3660	4.7	270	W 4-8	3407.6	204456
08/22/03	2145	27-17.29	085-20.34	4500	4.7	270	W 4-8	3080	184800
08/22/03	2200	27-17.17	085-21.57	4140	4.9	270	W 4-8	3054.8	183288
08/22/03	2215	27-17.10	085-22.92	4800	4.8	270	W 4-8	3326.4	199584
08/22/03	2230	27-17.02	085-24.29	4860	4.7	270	W 4-8	3362.8	201768
08/22/03	2245	27-16.96	085-25.66	4998	4.9	270	W 4-8	2940	176400
08/22/03	2300	27-16.96	085-27.00	5400	4.9	270	W 4-8	2976.4	178584
08/22/03	2315	27-16.99	085-28.39	10200	5.0	270	W 4-8	3934	236040
08/22/03	2330	27-17.06	085-29.79	10320	5.1	270	W 4-8	3962	237720
08/22/03	2345	27 17.13	85 31.24	10254	5.2	270	W 4-8	3567.2	214032
08/22/03	2400	27 17.22	85 32.60	10224	5.0	270	W 4-8	3528	211680
08/23/03	0015	27 17.30	85 34.09	10224	5.0	270	W 4-8	3920	235200
08/23/03	0030	27 17.38	85 34.75	10220	5.0	270	W 4-8	3948	236880
08/23/03	0045	27 17.62	85 36.76	10710	5.0	270	W 4-8	3806.6	228396
08/23/03	0100	27 17.83	85 38.24	10710	5.0	270	W 4-8	3550.4	213024
08/23/03	0115	27 17.93	85 39.47	10710	5.0	270	SW 4-8	3584	215040
08/23/03	0130	27 17.93	85 40.81	10710	5.0	270	SW 4-8	3595.2	215712
08/23/03	0145	27 17.89	85 42.26	10710	5.2	270	SW 4-8	3502.8	210168
08/23/03	0200	27 17.87	85 43.62	10710	5.2	270	SW 4-5	3539.2	212352
08/23/03	0215	27 18.50	85 44.74	10710	5.0	040	SW 2-3	3441.2	206472
08/23/03	0230	27 18.93	85 43.76	10710	5.1	087	SW2-3	3458	207480
08/23/03	0245	27 18.98	85 22.31	10620	5.2	087	Lt	3592.4	215544
08/23/03	0300	27 19.04	85 40.85	10620	5.2	087	Lt	3794	227640
08/23/03	0315	27 19.06	85 39.35	10620	5.3	087	Lt	3788.4	227304
08/23/03	0330	27 19.15	85 37.86	10620	5.4	087	Lt	3894.8	233688
08/23/03	0345	27 19.32	85 36.38	10620	5.3	087	Lt	3693.2	221592
08/23/03	0400	27 19.50	85 34.91	10500	5.3	087	Lt	3651.2	219072
08/23/03	0415	27 19.67	85 33.43	10200	5.2	087	Lt	3696	221760
08/23/03	0430	27 19.82	85 32.03	10200	5.0	087	Lt	3648.4	218904
08/23/03	0445	27 19.91	85 30.62	10200	5.0	087	Lt	3640	218400
08/23/03	0500	27 19.96	85 29.20	10200	5.0	087	Lt	3724	223440
08/23/03	0515	27 20.00	85 27.78	10200	5.0	087	Lt	3791.2	227472
08/23/03	0530	27 20.06	85 26.37	9600	5.0	087	Lt	3665.2	219912
08/23/03	0545	27 20.11	85 24.98	9000	5.0	087	Lt	3612	216720
08/23/03	0600	27 20.16	85 23.56	5100	5.1	087	Lt	3656.8	219408
08/23/03	0615	27 20.21	85 22.14	4200	5.2	087	Lt	3978.8	238728
08/23/03	0630	27 20.27	85 20.71	4100	5.1	087	Lt	4085.2	245112
08/23/03	0645	27 20.38	85 19.30	4100	5.0	087	Lt	3626	217560
08/23/03	0700	27 20.51	85 17.85	3600	5.3	087	Lt	3598	215880
08/23/03	0715	27 20.60	85 16.40	3200	5.2	087	Lt	3306.8	198408
08/23/03	0730	27 20.72	85 14.94	3000	5.2	087	Lt	3390.8	203448
08/23/03	0745	27 20.77	85 13.45	2760	5.2	087	Lt	2716	162960
08/23/03	0800	27 20.75	85 12.04	2838	5.1	087	Lt	2646	158760
08/23/03	0815	27 20.71	85 10.61	2820	5.2	087	Lt	3822	229320
08/23/03	0830	27 20.69	85 09.13	2790	5.3	087	Lt	3917.2	235032
08/23/03	0845	27 20.68	85 07.60	2400	5.4	087	Lt	3752	225120
08/23/03	0900	27 20.68	85 06.08	2250	5.3	090	Lt	3774.4	226464
08/23/03	0915	27 20.70	85 04.58	2280	5.2	089	Lt	3850	231000
08/23/03	0930	27 20.68	85 03.08	1800	5.3	089	Lt	3894.8	233688
08/23/03	0945	27 20.63	85 01.62	1500	5.2	089	Lt	3668	220080
08/23/03	1000	27 20.58	85 00.17	1400	5.2	089	Lt	3628.8	217728
08/23/03	1015	27 20.50	85 00.17	1450	5.2	089	Lt	3732.4	223944
08/23/03	1030	27 20.46	84 57.24	1362	5.2	089	Lt	3782.8	226968
08/23/03	1045	27 20.43	84 55.79	1260	5.2	089	Lt	3444	206640
08/23/03	1100	27 20.60	84 54.38	1170	5.2	089	Lt	3410.4	204624
08/23/03	1115	27 20.84	84 52.95	1200	5.2	089	Lt	3609.2	216552
08/23/03	1130	27 21.05	84 51.48	1140	5.3	089	Lt	3648.4	218904
08/23/03	1145	27 21.58	84 50.57	1140	3.8	308	Lt	3908.8	234528
08/23/03	1200	27 21.74	84 51.93	1140	5.6	270	Lt	3953.4667	237208
08/23/03	1215	27 21.64	84 53.52	1140	5.6	270	SE 3-4	3738	224280
08/23/03	1230	27 21.72	84 55.13	1140	5.6	270	SE 3-4	3777.2	226632
08/23/03	1245	27 21.77	84 56.66	1140	5.4	270	SE 3-4	3950.8	237048
08/23/03	1300	27 21.83	84 58.19	1140	5.4	270	SE 3-4	4006.8	240408
08/23/03	1315	27 21.90	84 59.72	1140	5.5	270	SE 3-4	3973.2	238392
08/23/03	1330	27 21.98	85 01.2	1140	5.3	270	SE 3-4	3978.8	238728
08/23/03	1345	27 22.08	85 02.78	1140	5.4	270	SE 3-4	3976	238560
08/23/03	1400	27 22.14	85 04.26	2850	5.4	270	SE 3-4	3981.6	238896
08/23/03	1415	27 22.13	85 5.77	2850	5.4	270	SE 3-4	3973.2	238392
08/23/03	1430	27 22.09	85 07.29	2850	5.4	270	SE 3-4	3976	238560
08/23/03	1445	27 22.04	85 08.67	2850	4.8	270	SE 3-4	3920	235200
08/23/03	1500	27 22.03	85 10.01	2850	4.8	270	Lt	3813.6	228816
08/23/03	1515	27 22.01	85 11.33	2838	4.7	270	Lt	3852.8	231168
08/23/03	1530	27 22.02	85 12.68	2838	4.8	270	Lt	3855.6	231336
08/23/03	1545	27 22.04	85 14.03	2838	4.8	270	Lt	3897.6	233656
08/23/03	1600	27 22.07	85 15.37	3000	4.8	270	Lt	3939.6	236376
08/23/03	1615	27 22.12	85 16.75	3000	5.0	270	5/10 W	3668	220080
08/23/03	1630	27 22.13	85 18.11	3600	4.7	270	5/10 W	3718.4	223104
08/23/03	1645	27 22.14	85 19.45	3900	4.4	270	5/10 W	3922.8	235368
08/23/03	1700	27 22.16	85 20.69	3900	4.4	270	5/10 W	3805.2	228312
08/23/03	1715	27 22.12	85 21.90	4200	4.3	270	5/10 W	3785.6	227136
08/23/03	1730	27 22.11	85 23.18	5100	4.4	270	5/10 W	3830.4	229824
08/23/03	1745	27 22.10	85 24.39	5400	4.5	270	5/10 W	2354.8	141288
08/23/03	1800	27 22.04	85 25.26	5700	4.1	270	5/10 W	2380	142800

08/23/03	1815	27 22.93	85 26.79	6000	4.5	270	5/10 W	3119.2	187152		
08/23/03	1830	27 21.92	85 28.10	9000	4.7	270	5/10 W	3099.6	185976		
08/23/03	1845	27 21.91	85 29.40	9600	4.7	270	5/10 W	3556	213360		
08/23/03	1900	27 21.90	85 30.73	10200	4.8	270	5/10 W	3491.6	209496		
08/23/03	1915	27 21.90	85 32.18	10800	6.3	270	5/10 W	3530.8	211848		
08/23/03	1930	27 21.93	85 33.92	10800	6.3	270	5/10 W	3581.2	214872		
08/23/03	1945	27 21.96	85 35.66	10680	6.2	270	5/10 W	3948	236880		
08/23/03	2000	27 21.97	85 37.37	10670	5.9	270	5/10 W	3962	237720		
08/23/03	2015	27 21.93	85 39.04	10670	6.1	270	5/10 W	3634.4	218064		
08/23/03	2030	27 21.88	85 40.77	10680	6.1	270	5/10 W	3614.8	216888		
08/23/03	2045	27 21.82	85 42.48	10670	6.1	270	5/10 W	3908.8	234528		
08/23/03	2100	27 22.34	85 43.43	10800	5.9	086	5/10 W	3931.2	235872		
08/23/03	2115	27 22.36	85 41.73	10644	6.4	086	5/10 W	3721.2	223272		
08/23/03	2130	27 22.26	85 39.95	10660	7.5	086	5/10 W	3687.6	221256		
08/23/03	2145	27 22.20	85 37.40	10680	9.9	086	5/10 W	3542	212520		
08/23/03	2200	27 22.15	85 34.35	10690	9.9	086	5/10 W	3575.6	214536		
08/23/03	2215	27 22.22	85 31.82	10200	9.9	086	5/10 W	3567.2	214032		
08/23/03	2230	27 22.36	85 28.99	10350	9.9	086	5/10 W	3617.6	217056		
08/23/03	2245	27 22.46	85 26.13	6500	9.9	086	5/10 W	2973.6	178416		
08/23/03	2300	27 22.53	85 23.00	4200	10.0	086	ESE 5	3018.4	181104		
08/23/03	2315	27 22.57	85 20.30	3000	10.0	086	ESE 5	3920	235200		
08/23/03	2330	27 22.69	85 17.37	2750	10.0	086	ESE 5	3903.2	234192		
08/23/03	2345	27 22.88	85 14.47	5040	10.4	086	ESE 5	3225.6	193536		
08/23/03	2400	27 23.12	85 11.54	5040	10.1	086	ESE 5	3248	194880		
08/24/03	0015	27 23.42	85 08.73	5040	10.2	086	Lt	3990	239400		
08/24/03	0030	27 23.72	85 05.95	5040	10.0	086	Lt	2289	137340		
08/24/03	0030	Fin. Cargo Ops.									

Voyage	Date	Time	Lat.	Lon.	Depth (Fathoms)	Vessel Speed (Knots)	Course	Wind Speed Direction	Discharge Rate (GPM)	Comments	Discharge Rate (GPH)
10	08/27/03	1145	27 27.89	84 52.30	780	5.1	270	SE 5-7	3248		194880
	08/27/03	1200	27 17.96	84 53.76	780	5.1	270	SE 5-7	3259.2		195552
	08/27/03	1215	27 18.01	84 55.19	780	5.1	270	SE 5-7	3603.6		216216
	08/27/03	1230	27 18.05	84 56.77	780	5.1	270	SE 5-7	3634.4		218064
	08/27/03	1245	27 18.11	84 58.17	1362	5.1	270	SE 5-7	3866.8		232008
	08/27/03	1300	27 18.31	84 59.50	1362	5.2	270	SE 5-7	3892		233520
	08/27/03	1315	27 18.61	85 01.14	1362	5.2	270	SE 5-7	3738		224280
	08/27/03	1330	27 18.62	85 02.73	2550	5.2	270	SE 5-7	3612		216720
	08/27/03	1345	27 18.46	85 04.07	2550	5.6	270	SE 5.7	3670.8		220248
	08/27/03	1400	27 18.29	85 05.71	2550	5.5	270	SE 5-7	3777.2		226632
	08/27/03	1415	27 18.11	85 07.18	2550	5.4	270	SE 5-7	3668		220080
	08/27/03	1430	27 17.91	85 08.66	3240	5.4	270	SE 5-7	3600.8		216048
	08/27/03	1445	27 17.76	85 10.13	3240	5.4	270	SE 5-7	3690.4		221424
	08/27/03	1500	27 17.69	85 11.64	3000	5.4	270	SE 5-7	3749.2		224952
	08/27/03	1515	27 17.62	85 13.09	3000	5.4	270	SE 5-7	3796.8		227808
	08/27/03	1530	27 17.59	85 14.54	3000	5.4	270	SE 5-7	3740.8		224448
	08/27/03	1545	27 17.57	85 16.09	3000	5.4	270	SE 5-7	3701.6		222096
	08/27/03	1600	27 17.57	85 17.64	4200	5.4	270	SE 5-7	3712.8		222768
	08/27/03	1615	27 17.56	85 19.03	4500	5.4	270	SE 5-7	3166.8		190008
	08/27/03	1630	27 17.51	85 20.31	4500	4.6	270	SE 5-7	3133.2		187992
	08/27/03	1645	27 17.51	85 21.60	4500	4.6	270	SE 5-7	3976		238560
	08/27/03	1700	27 17.54	85 22.90	4800	4.7	270	SE 5-7	3981.6		238896
	08/27/03	1715	27 17.58	85 24.21	5400	4.7	270	SE 5-7	3547.6		212856
	08/27/03	1730	27 17.57	85 25.55	6000	4.7	270	SE 5-7	3514		210840
	08/27/03	1745	27 17.51	85 26.82	7500	4.5	270	SE 5-7	3934		236040
	08/27/03	1800	27 17.45	85 28.09	9600	4.4	270	SE 5-7	3962		237720
	08/27/03	1815	27 17.41	85 29.34	10800	4.7	270	SE 5-7	3917.2		235032
	08/27/03	1830	27 17.34	85 30.59	10800	4.5	270	SE 5-7	3914.4		234864
	08/27/03	1845	2717.28	85 31.9	10800	4.5	270	SE 5-7	3136		188160
	08/27/03	1900	27 17.27	85 33.09	10800	4.5	270	SE 5-7	3164		189840
	08/27/03	1915	27 17.33	85 34.43	10800	4.9	270	E 5-10	3441.2		206472
	08/27/03	1930	27 17.36	85 35.79	10800	5.0	270	E 5-10	3463.6		207816
	08/27/03	1945	27 17.36	85 37.21	10680	5.0	270	E 5-10	3931.2		235872
	08/27/03	2000	27 17.42	85 38.62	10560	5.0	270	E 5-10	3928.4		235704
	08/27/03	2015	27 27.49	85 40.01	10600	4.8	270	E 5-10	3897.6		233856
	08/27/03	2030	27 17.53	85 41.35	10670	4.9	270	E 5-10	3858.4		231504
	08/27/03	2045	27 17.54	85 42.72	10690	5.0	270	E 5-10	3668		220080
	08/27/03	2100	27 17.72	85 44.00	10680	5.0	270	E 5-10	3612		216720
	08/27/03	2115	27 18.70	85 43.47	10800	5.0	085	E 5-10	3701.6		222096
	08/27/03	2130	27 18.70	85 41.97	10680	5.5	085	E 5-10	3791.2		227472
	08/27/03	2145	27 18.56	85 40.42	10790	5.5	085	E 5-10	3421.6		205296
	08/27/03	2200	27 18.43	85 38.89	10668	5.5	085	E 5-10	3393.6		203616
	08/27/03	2215	27 18.34	85 37.36	10890	5.5	085	E 5-10	3766		225960
	08/27/03	2230	27 18.35	85 35.86	10790	5.3	085	E 5-10	3850		231000
	08/27/03	2245	27 18.43	85 34.38	10670	5.2	085	E 5-10	3990		239400
	08/27/03	2300	27 18.60	85 32.92	10790	5.4	085	E 5-10	3990		239400
	08/27/03	2315	27 18.82	85 31.41	10890	5.5	085	E 5-10	3908.8		234528
	08/27/03	2330	27 19.05	85 29.88	10890	5.4	085	E 5-10	3802.4		228144
	08/27/03	2345	27 19.08	85 28.43	10890	5.4	085	E 5-10	3791.2		227472
	08/27/03	0000	27 19.15	85 27.00	10890	5.4	085	E 5-10	3841.6		230496
	08/28/03	0015	27 19.23	85 25.55	10890	5.4	085	E 5-10	3855.6		231336
	08/28/03	0030	27 19.31	85 24.13	10890	5.4	085	E 5-10	3976		238560
	08/28/03	0045	27 19.40	85 22.73	10890	5.4	085	E 5-10	3886.4		233184
	08/28/03	0100	27 19.48	85 21.32	4500	5.0	085	E 5-10	3827.6		229656
	08/28/03	0115	27 19.54	85 19.95	4500	5.0	085	E 5-10	3816.4		228984
	08/28/03	0130	27 19.64	85 18.55	4500	5.0	085	E 5-10	3746.4		224784
	08/28/03	0145	27 19.72	85 17.12	4500	5.0	085	E 5-10	3782.8		226968
	08/28/03	0200	27 19.80	85 15.71	4500	5.1	085	E 5-10	3796.8		227808
	08/28/03	0215	27 19.91	85 14.30	4500	5.1	085	E 5-10	3760.4		225624
	08/28/03	0230	27 20.04	85 12.90	4500	5.1	085	E 5-10	3668		220080
	08/28/03	0245	27 21.17	85 11.47	4500	5.1	085	E 5-10	3771.6		226296
	08/28/03	0300	27 20.27	85 10.04	4500	5.1	085	E 5-10	3861.2		231672
	08/28/03	0315	27 20.37	85 08.53	2100	5.2	085	E 5-10	3743.6		224616

08/28/03	0330	27 20.52	85 07.05	2700	5.4	085	E 5-10	3654	219240
08/28/03	0345	27 20.65	85 05.55	2100	5.4	085	E 5-10	3698.8	221928
08/28/03	0400	27 20.80	85 04.02	1900	5.5	085	E 5-10	3822	229320
08/28/03	0415	27 20.95	85 02.48	1680	5.5	085	E 5-10	3273.2	196392
08/28/03	0430	27 20.93	85 00.89	1560	5.4	085	E 5-10	3239.6	194376
08/28/03	0445	27 20.89	84 59.43	1500	5.3	088	E 5-10	3830.4	229824
08/28/03	0500	27 20.91	84 57.95	1380	5.2	088	E 5-10	3858.4	231504
08/28/03	0515	27 20.91	84 56.51	1200	5.3	090	E 5-10	3990	239400
08/28/03	0530	27 20.89	84 55.03	1140	5.2	090	E 5-10	3852.8	231168
08/28/03	0545	27 20.90	84 53.57	1140	5.3	090	E 5-10	2338	140280
08/28/03	0600	27 20.90	84 52.10	1140	5.3	090	E 5-10	2326.8	139608
08/28/03	0615	27 20.91	84 50.61	840	5.3	090	E 5-10	3220	193200
08/28/03	0630	27 21.40	84 49.40	840	5.3	360	E 5-10	3234	194040
08/28/03	0645	27 21.94	84 50.56	840	5.7	270	E 5-10	2926.4	175584
08/28/03	0700	27 21.93	84 52.20	1040	5.9	270	E 5-10	2931.6	175896
08/28/03	0715	27 21.88	84 53.87	1140	5.9	270	E 5-10	3847.2	230832
08/28/03	0730	27 21.86	84 55.48	1200	5.8	270	E 5-10	3768.8	226128
08/28/03	0745	27 21.85	84 57.08	1320	6.1	270	E 5-10	3830.4	229824
08/28/03	0800	27 21.83	85 58.83	1400	6.3	270	E 5-10	3788.4	227304
08/28/03	0815	27 21.86	85 00.58	1405	6.3	270	E 5-10	3889.2	233352
08/28/03	0830	27 21.87	85 02.35	1050	6.3	270	E 5-10	3948	238880
08/28/03	0845	27 21.88	85 04.05	1200	6.0	270	E 5-10	3962	237720
08/28/03	0900	27 21.81	85 05.72	1044	5.9	270	E 5-10	3981.6	238896
08/28/03	9015	27 21.75	85 07.37	2838	6.0	270	E 5-10	3970.4	238224
08/28/03	9030	27 21.67	85 09.06	2838	5.9	270	E 5-10	3984.4	239064
08/28/03	9045	27 21.67	85 10.74	2850	6.0	270	E 5-10	3766	225960
08/28/03	1000	27 21.71	85 12.39	2845	5.9	270	E 5-10	3740.8	224448
08/28/03	1015	27 21.75	85 14.07	3000	6.1	270	E 5-10	3836	230160
08/28/03	1030	27 21.78	85 15.78	4200	6.0	270	E 5-10	3908.8	234528
08/28/03	1045	27 21.84	85 17.46	4260	7.8	270	E 5-10	3530.8	211848
08/28/03	1100	27 21.87	85 19.10	4320	5.9	270	E 5/10	3584	215040
08/28/03	1115	27 21.90	85 20.75	3900	5.9	270	E 5/10	3477.6	208656
08/28/03	1130	27 21.96	85 22.40	2760	5.9	270	E 5/10	3458	207480
08/28/03	1145	27 22.02	85 24.03	2760	5.7	270	E 5-10	3640	218400
08/28/03	1200	27 22.02	85 25.63	2760	5.7	270	E 5-10	3665.2	219912
08/28/03	1215	27 21.98	85 27.19	2760	5.7	270	E 5-10	3441.2	206472
08/28/03	1230	27 21.90	85 28.80	2760	5.7	270	E 5-10	3516.8	211008
08/28/03	1245	27 21.80	85 30.32	2760	5.7	270	E 5-10	3788.4	227304
08/28/03	1300	27 22.64	85 30.32	2760	6.0	085	E 5-10	3911.6	234696
08/28/03	1315	27 22.83	85 28.60	2760	6.1	085	E 5-10	3939.6	238376
08/28/03	1330	27 22.98	85 26.88	4200	6.1	085	E 5-10	3925.6	235536
08/28/03	1345	27 23.12	85 25.23	4200	6.0	085	E 5-10	3780	228800
08/28/03	1400	27 23.29	85 23.58	4200	6.0	085	E 5-10	3802.4	228144
08/28/03	1415	27 23.43	85 21.95	3000	6.0	085	E 5-10	3656.8	219408
08/28/03	1430	27 23.53	85 20.29	3000	6.0	085	E 5-10	3049.2	182952
08/28/03	1445	27 23.65	85 18.64	3000	6.0	085	E 5-10	3771.6	228296
08/28/03	1500	27 23.79	85 16.95	3000	6.0	085	E 5-10	3981.6	238896
08/28/03	1515	27 23.93	85 15.33	2800	5.9	085	E 5-10	3754.8	225288
08/28/03	1530	27 24.06	85 13.73	2800	5.7	085	E 5-10	3788.4	227304
08/28/03	1545	27 24.17	85 12.13	2800	5.7	085	E 5-10	3637.2	218232
08/28/03	1600	27 24.28	85 10.55	2800	5.5	085	E 5-10	3592.4	215544
08/28/03	1615	27 24.38	85 09.04	2280	5.4	085	E 5-10	3550.4	213024
08/28/03	1630	27 24.49	85 07.55	2160	5.2	085	E 5-10	3676.4	220584
08/28/03	1645	27 24.57	85 06.07	2040	5.3	085	E 5-10	4068.4	244104
08/28/03	1700	27 24.71	85 04.61	1800	5.1	085	E 5-10	3914.4	234864
08/28/03	1715	27 24.85	85 03.19	1800	5.1	085	E 10-15	3239.6	194376
08/28/03	1730	27 24.97	85 01.44	1560	6.9	085	E 10-15	3264.8	195888
08/28/03	1745	27 25.11	84 59.50	1440	7.0	085	E 10-15	2898	173880
08/28/03	1800	27 25.23	84 57.54	1200	6.9	085	E 10-15	2970.8	178248
08/28/03	1815	27 25.38	84 55.61	1080	7.0	085	E 10-15	2352	141120
08/28/03	1830	27 25.51	84 53.68	1020	6.8	085	E 10-15	2290.4	137424
08/28/03	1845	27 25.69	84 51.76	900	7.0	085	E 10-15	2909.2	174552
08/28/03	1900	27 25.90	84 49.97	780	5.3	085	E 10-15	2864.4	171864
08/28/03	1915	27 26.03	84 48.55	780	4.9	085	E 10-15	3189.2	191352
08/28/03	1915	FINISH CARGO							

Special Condition 19 E

Volume Discharged

Voyage Volume (Gallons)
5 5,353,078

6	5,485,947
7	6,867,999
8	6,858,411
9	6,917,177
10	6,839,053

Special Condition 19 G

Wave Height @ Beginning and End of Each Trip

Voyage	Wave Height @ Beginning, ft.	Wave Height @ End, ft.
5	1 to 2	1 to 2
6	3	2
7	3 to 5	8 to 10
8	2	2
9	2	2
10	2	3 to 4

Special Condition 19 H

Time and Position of Floatable Matter

Voyage	Date	Time	Lat.	Lon.	Comments
5	08/06/03	0845	27,18.092	84,50.018	Red Box Low In Water
6	None Noted				
7	None Noted				
8	None Noted				
9	None Noted				
10	None Noted				

Special Condition 19 I

Time and Position of Sea Turtle or Marine Mammal Sightings

Voyage	Date	Time	Lat.	Lon.	Comments
5	None Noted				
6	None Noted				
7	None Noted				
8	None Noted				
9	08/23/03	17:48	27,22.10	84,24.61	Bottlenose Dolphin Pod (15) In Area, stopped discharge 15 minutes until clear
10	None Noted				

Special Condition 19 J

Unusual Occurances

Voyage	Comments
5	None Noted
6	None Noted
7	8/14/03, 2250 to 2300, stopped discharge to adjust tow wire--speed under 4kts
8	Dye test conducted on 8/18/03
9	None Noted
10	None Noted